

Table 1. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.025	0.024	0.025	0.025	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029
Kerosene	0.015	0.012	0.015	0.015	0.014	0.014	0.013	0.014	0.014	0.014	0.014	0.014	0.014
Distillate Fuel Oil	0.316	0.259	0.302	0.291	0.282	0.276	0.277	0.278	0.277	0.277	0.277	0.277	0.276
Liquid Fuels and Other Petroleum Subtotal	0.356	0.295	0.342	0.331	0.321	0.315	0.316	0.318	0.318	0.318	0.318	0.320	0.319
Natural Gas	0.199	0.177	0.196	0.196	0.195	0.192	0.194	0.196	0.196	0.198	0.199	0.201	0.201
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 1/	0.028	0.023	0.027	0.027	0.026	0.025	0.025	0.024	0.024	0.024	0.024	0.023	0.023
Electricity	0.166	0.158	0.162	0.164	0.164	0.165	0.166	0.166	0.161	0.160	0.160	0.161	0.161
Delivered Energy	0.749	0.653	0.727	0.718	0.707	0.697	0.700	0.704	0.699	0.700	0.701	0.705	0.704
Electricity Related Losses	0.315	0.280	0.312	0.304	0.304	0.290	0.287	0.290	0.285	0.284	0.275	0.272	0.274
Total	1.064	0.933	1.039	1.022	1.011	0.988	0.987	0.993	0.984	0.984	0.976	0.977	0.977
Commercial													
Liquefied Petroleum Gases	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Motor Gasoline 2/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Kerosene	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Distillate Fuel Oil	0.081	0.071	0.074	0.072	0.068	0.068	0.069	0.069	0.070	0.070	0.071	0.071	0.072
Residual Fuel Oil	0.029	0.026	0.025	0.027	0.024	0.022	0.022	0.023	0.023	0.023	0.024	0.024	0.024
Liquid Fuels and Other Petroleum Subtotal	0.122	0.107	0.110	0.110	0.103	0.101	0.102	0.103	0.104	0.105	0.106	0.106	0.106
Natural Gas	0.124	0.114	0.125	0.120	0.120	0.120	0.122	0.124	0.125	0.127	0.129	0.130	0.132
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 3/	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Electricity	0.187	0.185	0.191	0.195	0.193	0.195	0.198	0.201	0.204	0.208	0.212	0.216	0.219
Delivered Energy	0.444	0.417	0.437	0.435	0.427	0.427	0.433	0.439	0.445	0.451	0.457	0.463	0.468
Electricity Related Losses	0.354	0.328	0.369	0.362	0.358	0.343	0.343	0.351	0.361	0.369	0.364	0.365	0.373
Total	0.798	0.744	0.806	0.797	0.785	0.770	0.776	0.790	0.806	0.820	0.821	0.829	0.841
Industrial 4/													
Liquefied Petroleum Gases	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004
Motor Gasoline 2/	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.012	0.012	0.012
Distillate Fuel Oil	0.037	0.037	0.036	0.035	0.034	0.034	0.035	0.034	0.033	0.033	0.033	0.033	0.033
Residual Fuel Oil	0.045	0.042	0.043	0.045	0.045	0.042	0.040	0.037	0.035	0.035	0.035	0.035	0.035
Petrochemical Feedstocks	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Other Petroleum 5/	0.046	0.046	0.044	0.044	0.040	0.040	0.039	0.038	0.036	0.035	0.034	0.034	0.033
Liquid Fuels and Other Petroleum Subtotal	0.158	0.155	0.152	0.152	0.147	0.144	0.142	0.138	0.132	0.131	0.130	0.129	0.127
Natural Gas	0.087	0.086	0.088	0.085	0.081	0.083	0.084	0.084	0.084	0.084	0.084	0.083	0.083
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Natural Gas Subtotal	0.087	0.086	0.088	0.085	0.081	0.083	0.084	0.084	0.084	0.084	0.084	0.083	0.083
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Industrial Coal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 7/	0.084	0.086	0.088	0.089	0.081	0.083	0.084	0.084	0.084	0.084	0.084	0.085	0.085
Electricity	0.081	0.077	0.078	0.076	0.076	0.078	0.079	0.080	0.080	0.079	0.079	0.079	0.078
Delivered Energy	0.414	0.408	0.411	0.408	0.389	0.392	0.393	0.390	0.384	0.382	0.381	0.380	0.377
Electricity Related Losses	0.153	0.137	0.151	0.142	0.141	0.137	0.137	0.139	0.141	0.141	0.136	0.134	0.133
Total	0.567	0.546	0.563	0.550	0.530	0.528	0.530	0.528	0.525	0.522	0.516	0.513	0.510

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(quadrillion Btu, unless otherwise noted)-New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.009	0.000	0.050
Motor Gasoline 2/	0.840	0.849	0.855	0.865	0.879	0.893	0.903	0.913	0.922	0.924	0.922	0.933	0.880
Jet Fuel 9/	0.069	0.076	0.077	0.079	0.080	0.082	0.084	0.086	0.087	0.088	0.089	0.091	0.092
Distillate Fuel Oil 10/	0.171	0.177	0.179	0.179	0.182	0.187	0.192	0.196	0.198	0.201	0.203	0.206	0.209
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Liquid Fuels and Other Petroleum Subtotal	1.088	1.109	1.118	1.130	1.148	1.186	1.202	1.213	1.223	1.230	1.230	1.237	1.238
Pipeline Fuel Natural Gas	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Compressed Natural Gas	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.006	0.006
Electricity	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Delivered Energy	1.097	1.118	1.129	1.141	1.160	1.181	1.200	1.216	1.228	1.238	1.246	1.253	1.254
Electricity Related Losses	0.002	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Total	1.098	1.120	1.130	1.143	1.162	1.183	1.201	1.218	1.230	1.240	1.248	1.256	1.256
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.036	0.034	0.036	0.036	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.038	0.038
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.009	0.000	0.050
Motor Gasoline 2/	0.856	0.865	0.871	0.882	0.895	0.908	0.919	0.929	0.937	0.940	0.937	0.949	0.895
Jet Fuel 9/	0.069	0.076	0.077	0.079	0.080	0.082	0.084	0.086	0.087	0.088	0.089	0.091	0.092
Kerosene	0.021	0.017	0.019	0.019	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.019
Distillate Fuel Oil	0.605	0.545	0.592	0.578	0.566	0.565	0.572	0.577	0.579	0.581	0.584	0.588	0.589
Residual Fuel Oil	0.075	0.068	0.068	0.072	0.069	0.065	0.063	0.061	0.059	0.059	0.059	0.059	0.059
Petrochemical Feedstocks	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.050	0.050	0.049	0.048	0.045	0.044	0.044	0.042	0.040	0.039	0.038	0.038	0.037
Liquid Fuels and Other Petroleum Subtotal	1.723	1.666	1.722	1.723	1.719	1.728	1.746	1.760	1.768	1.776	1.784	1.793	1.790
Natural Gas	0.412	0.379	0.411	0.403	0.399	0.398	0.403	0.407	0.410	0.413	0.417	0.420	0.421
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipeline Natural Gas	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Natural Gas Subtotal	0.419	0.385	0.419	0.411	0.408	0.407	0.412	0.416	0.419	0.422	0.426	0.429	0.430
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 13/	0.122	0.119	0.126	0.127	0.118	0.118	0.119	0.119	0.118	0.118	0.118	0.118	0.118
Electricity	0.435	0.421	0.433	0.436	0.434	0.440	0.444	0.448	0.446	0.449	0.452	0.456	0.459
Delivered Energy	2.704	2.596	2.705	2.702	2.684	2.698	2.726	2.748	2.756	2.770	2.785	2.801	2.803
Electricity Related Losses	0.824	0.747	0.833	0.809	0.805	0.772	0.768	0.781	0.789	0.796	0.776	0.773	0.782
Total	3.528	3.343	3.538	3.511	3.489	3.469	3.495	3.529	3.545	3.566	3.561	3.575	3.585
Electric Power 14/													
Distillate Fuel Oil	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Residual Fuel Oil	0.118	0.037	0.025	0.025	0.025	0.025	0.025	0.023	0.023	0.023	0.023	0.023	0.023
Liquid Fuels and Other Petroleum Subtotal	0.125	0.044	0.030	0.030	0.031	0.030	0.030	0.028	0.028	0.028	0.028	0.028	0.028
Natural Gas	0.366	0.383	0.512	0.490	0.484	0.459	0.460	0.469	0.467	0.475	0.465	0.459	0.462
Steam Coal	0.206	0.204	0.176	0.177	0.179	0.181	0.184	0.186	0.189	0.191	0.193	0.196	0.198
Nuclear Power	0.374	0.372	0.375	0.373	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371
Renewable Energy 15/	0.134	0.113	0.108	0.110	0.115	0.122	0.123	0.124	0.125	0.127	0.130	0.132	0.134
Electricity Imports	0.030	0.028	0.040	0.041	0.034	0.023	0.021	0.026	0.030	0.027	0.017	0.020	0.024
Total 16/	1.259	1.168	1.266	1.245	1.239	1.211	1.213	1.229	1.235	1.245	1.229	1.230	1.241

Table 1. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	0.036	0.034	0.036	0.036	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.038	0.038
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.009	0.000	0.050
Motor Gasoline 2/	0.856	0.865	0.871	0.882	0.895	0.908	0.919	0.929	0.937	0.940	0.937	0.949	0.895
Jet Fuel 9/	0.069	0.076	0.077	0.079	0.080	0.082	0.084	0.086	0.087	0.088	0.089	0.091	0.092
Kerosene	0.021	0.017	0.019	0.019	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.019
Distillate Fuel Oil	0.613	0.551	0.597	0.583	0.572	0.570	0.577	0.582	0.584	0.586	0.589	0.593	0.594
Residual Fuel Oil	0.192	0.106	0.093	0.097	0.094	0.090	0.087	0.084	0.082	0.082	0.083	0.083	0.082
Petrochemical Feedstocks	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.050	0.050	0.049	0.048	0.045	0.044	0.044	0.042	0.040	0.039	0.038	0.038	0.037
Liquid Fuels and Other Petroleum Subtotal	1.848	1.710	1.752	1.753	1.750	1.758	1.776	1.789	1.796	1.805	1.813	1.821	1.818
Natural Gas	0.778	0.762	0.923	0.893	0.883	0.857	0.862	0.876	0.877	0.889	0.881	0.878	0.883
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipeline Natural Gas	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Natural Gas Subtotal	0.785	0.768	0.931	0.901	0.892	0.866	0.871	0.885	0.886	0.898	0.890	0.887	0.892
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.211	0.209	0.181	0.182	0.184	0.187	0.189	0.191	0.193	0.196	0.198	0.200	0.203
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.211	0.209	0.181	0.182	0.184	0.187	0.189	0.191	0.193	0.196	0.198	0.200	0.203
Nuclear Power	0.374	0.372	0.375	0.373	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 17/	0.255	0.231	0.234	0.237	0.233	0.240	0.242	0.243	0.244	0.245	0.248	0.250	0.252
Electricity Imports	0.030	0.028	0.040	0.041	0.034	0.023	0.021	0.026	0.030	0.027	0.017	0.020	0.024
Total	3.528	3.343	3.538	3.511	3.489	3.469	3.495	3.529	3.545	3.566	3.561	3.575	3.585
Energy Use & Related Statistics													
Delivered Energy Use	2.704	2.596	2.705	2.702	2.684	2.698	2.726	2.748	2.756	2.770	2.785	2.801	2.803
Total Energy Use	3.528	3.343	3.538	3.511	3.489	3.469	3.495	3.529	3.545	3.566	3.561	3.575	3.585
Population (millions)	14.462	14.544	14.620	14.693	14.763	14.830	14.896	14.960	15.023	15.083	15.142	15.198	15.252
Carbon Dioxide Emissions (million metric tons)	194.16	186.99	189.20	187.02	186.17	184.86	186.32	188.03	188.80	189.94	190.07	191.19	189.48

Table 1. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.035	0.035	0.035	1.7%
Kerosene	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.5%
Distillate Fuel Oil	0.274	0.272	0.270	0.267	0.265	0.262	0.260	0.257	0.254	0.252	0.250	0.247	0.244	-0.3%
Liquid Fuels and Other Petroleum Subtotal	0.318	0.316	0.315	0.312	0.311	0.309	0.307	0.304	0.302	0.300	0.298	0.295	0.293	0.0%
Natural Gas	0.202	0.203	0.204	0.204	0.205	0.205	0.206	0.206	0.207	0.207	0.208	0.207	0.207	0.7%
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1%
Renewable Energy 1/	0.023	0.023	0.023	0.022	0.022	0.022	0.022	0.022	0.021	0.021	0.021	0.021	0.021	-0.3%
Electricity	0.161	0.162	0.162	0.162	0.163	0.164	0.166	0.167	0.168	0.169	0.171	0.172	0.173	0.4%
Delivered Energy	0.704	0.703	0.704	0.701	0.701	0.700	0.701	0.699	0.698	0.697	0.698	0.695	0.694	0.3%
Electricity Related Losses	0.275	0.275	0.277	0.277	0.279	0.278	0.278	0.275	0.274	0.272	0.274	0.274	0.268	-0.2%
Total	0.978	0.978	0.981	0.979	0.980	0.978	0.979	0.974	0.972	0.969	0.973	0.969	0.962	0.1%
Commercial														
Liquefied Petroleum Gases	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.7%
Motor Gasoline 2/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.9%
Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.1%
Distillate Fuel Oil	0.072	0.071	0.071	0.071	0.070	0.070	0.070	0.070	0.069	0.069	0.069	0.068	0.068	-0.2%
Residual Fuel Oil	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.023	-0.4%
Liquid Fuels and Other Petroleum Subtotal	0.106	0.106	0.106	0.106	0.105	0.105	0.105	0.105	0.104	0.104	0.104	0.103	0.103	-0.2%
Natural Gas	0.133	0.134	0.136	0.137	0.139	0.140	0.141	0.142	0.144	0.145	0.146	0.147	0.149	1.1%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0%
Renewable Energy 3/	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.0%
Electricity	0.222	0.225	0.228	0.232	0.235	0.238	0.241	0.244	0.247	0.250	0.252	0.255	0.258	1.4%
Delivered Energy	0.473	0.477	0.481	0.486	0.490	0.494	0.498	0.502	0.506	0.510	0.513	0.516	0.520	0.9%
Electricity Related Losses	0.378	0.383	0.390	0.396	0.402	0.403	0.405	0.403	0.403	0.401	0.405	0.406	0.399	0.8%
Total	0.851	0.860	0.871	0.882	0.892	0.898	0.903	0.905	0.909	0.911	0.918	0.922	0.919	0.9%
Industrial 4/														
Liquefied Petroleum Gases	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	-1.6%
Motor Gasoline 2/	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	-0.7%
Distillate Fuel Oil	0.032	0.032	0.031	0.031	0.030	0.030	0.029	0.029	0.029	0.029	0.028	0.028	0.028	-1.2%
Residual Fuel Oil	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	0.032	0.032	0.031	0.031	0.031	-1.3%
Petrochemical Feedstocks	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	-1.5%
Other Petroleum 5/	0.032	0.031	0.031	0.030	0.029	0.029	0.029	0.029	0.028	0.028	0.028	0.027	0.027	-2.2%
Liquid Fuels and Other Petroleum Subtotal	0.125	0.123	0.121	0.119	0.117	0.116	0.114	0.114	0.113	0.112	0.111	0.109	0.108	-1.5%
Natural Gas	0.082	0.082	0.082	0.082	0.081	0.081	0.080	0.079	0.079	0.078	0.078	0.077	0.077	-0.5%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Natural Gas Subtotal	0.082	0.082	0.082	0.082	0.081	0.081	0.080	0.079	0.079	0.078	0.078	0.077	0.077	-0.5%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Industrial Coal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	-0.7%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	-0.7%
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Renewable Energy 7/	0.085	0.085	0.085	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.085	0.0%
Electricity	0.077	0.076	0.076	0.075	0.074	0.073	0.072	0.071	0.070	0.069	0.068	0.067	0.066	-0.7%
Delivered Energy	0.373	0.370	0.367	0.365	0.362	0.358	0.356	0.353	0.351	0.349	0.346	0.343	0.340	-0.8%
Electricity Related Losses	0.132	0.130	0.129	0.128	0.126	0.123	0.120	0.117	0.114	0.111	0.109	0.107	0.102	-1.2%
Total	0.505	0.500	0.496	0.493	0.488	0.482	0.476	0.470	0.465	0.460	0.455	0.449	0.442	-0.9%

Table 1. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-4.3%
E85 8/	0.081	0.075	0.095	0.105	0.109	0.108	0.102	0.113	0.108	0.109	0.109	0.106	0.110	41.5%
Motor Gasoline 2/	0.845	0.845	0.814	0.797	0.786	0.780	0.781	0.763	0.763	0.757	0.753	0.753	0.746	-0.5%
Jet Fuel 9/	0.093	0.094	0.096	0.097	0.098	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.106	1.4%
Distillate Fuel Oil 10/	0.212	0.215	0.218	0.222	0.225	0.229	0.233	0.237	0.241	0.246	0.250	0.255	0.259	1.6%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.4%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.9%
Other Petroleum 11/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.3%
Liquid Fuels and Other Petroleum Subtotal	1.237	1.235	1.230	1.227	1.225	1.223	1.222	1.221	1.221	1.222	1.223	1.226	1.229	0.4%
Pipeline Fuel Natural Gas	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.4%
Compressed Natural Gas	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	6.8%
Electricity	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	3.2%
Delivered Energy	1.254	1.252	1.247	1.245	1.242	1.241	1.240	1.239	1.240	1.241	1.242	1.245	1.248	0.5%
Electricity Related Losses	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	2.6%
Total	1.256	1.254	1.249	1.247	1.245	1.244	1.243	1.242	1.242	1.243	1.245	1.247	1.250	0.5%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.039	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.042	0.043	0.043	0.044	0.044	1.1%
E85 8/	0.081	0.075	0.095	0.105	0.109	0.108	0.102	0.113	0.108	0.109	0.109	0.106	0.110	41.5%
Motor Gasoline 2/	0.860	0.860	0.829	0.812	0.801	0.795	0.795	0.778	0.777	0.772	0.768	0.768	0.761	-0.5%
Jet Fuel 9/	0.093	0.094	0.096	0.097	0.098	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.106	1.4%
Kerosene	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.018	0.018	0.4%
Distillate Fuel Oil	0.589	0.589	0.590	0.590	0.591	0.592	0.593	0.593	0.594	0.595	0.597	0.598	0.599	0.4%
Residual Fuel Oil	0.058	0.058	0.058	0.057	0.057	0.056	0.056	0.056	0.056	0.056	0.055	0.055	0.055	-0.9%
Petrochemical Feedstocks	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	-1.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.9%
Other Petroleum 12/	0.036	0.035	0.035	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	0.031	0.031	-2.0%
Liquid Fuels and Other Petroleum Subtotal	1.786	1.780	1.771	1.764	1.758	1.752	1.749	1.743	1.740	1.738	1.736	1.734	1.734	0.2%
Natural Gas	0.423	0.425	0.428	0.430	0.432	0.433	0.435	0.435	0.437	0.438	0.439	0.440	0.440	0.6%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Pipeline Natural Gas	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.4%
Natural Gas Subtotal	0.432	0.434	0.437	0.439	0.441	0.442	0.444	0.445	0.446	0.447	0.449	0.449	0.449	0.6%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	-0.5%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	-0.5%
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Renewable Energy 13/	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.117	0.117	0.117	0.116	-0.1%
Electricity	0.462	0.465	0.468	0.471	0.474	0.477	0.480	0.483	0.486	0.490	0.493	0.495	0.498	0.7%
Delivered Energy	2.803	2.802	2.799	2.797	2.795	2.794	2.796	2.793	2.794	2.796	2.799	2.799	2.802	0.3%
Electricity Related Losses	0.787	0.790	0.799	0.804	0.810	0.807	0.805	0.797	0.794	0.787	0.791	0.789	0.771	0.1%
Total	3.590	3.591	3.598	3.601	3.605	3.601	3.601	3.590	3.588	3.583	3.590	3.588	3.573	0.3%
Electric Power 14/														
Distillate Fuel Oil	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	-2.5%
Residual Fuel Oil	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	-2.0%
Liquid Fuels and Other Petroleum Subtotal	0.028	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	-2.0%
Natural Gas	0.467	0.467	0.482	0.490	0.499	0.498	0.497	0.493	0.492	0.487	0.494	0.485	0.469	0.8%
Steam Coal	0.200	0.203	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.0%
Nuclear Power	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.0%
Renewable Energy 15/	0.135	0.136	0.136	0.135	0.135	0.135	0.135	0.135	0.136	0.137	0.138	0.138	0.138	0.9%
Electricity Imports	0.023	0.026	0.020	0.021	0.022	0.023	0.025	0.025	0.025	0.025	0.025	0.033	0.035	1.0%
Total 16/	1.249	1.255	1.267	1.275	1.284	1.284	1.286	1.280	1.280	1.276	1.284	1.284	1.269	0.3%

Table 1. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	0.039	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.042	0.043	0.043	0.044	0.044	1.1%
E85 8/	0.081	0.075	0.095	0.105	0.109	0.108	0.102	0.113	0.108	0.109	0.109	0.106	0.110	41.5%
Motor Gasoline 2/	0.860	0.860	0.829	0.812	0.801	0.795	0.795	0.778	0.777	0.772	0.768	0.768	0.761	-0.5%
Jet Fuel 9/	0.093	0.094	0.096	0.097	0.098	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.106	1.4%
Kerosene	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.018	0.018	0.4%
Distillate Fuel Oil	0.594	0.594	0.595	0.595	0.595	0.596	0.597	0.597	0.598	0.599	0.601	0.601	0.603	0.4%
Residual Fuel Oil	0.082	0.081	0.081	0.080	0.080	0.080	0.080	0.079	0.079	0.079	0.079	0.078	0.078	-1.2%
Petrochemical Feedstocks	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	-1.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.9%
Other Petroleum 12/	0.036	0.035	0.035	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	0.031	0.031	-2.0%
Liquid Fuels and Other Petroleum Subtotal	1.814	1.808	1.799	1.792	1.785	1.780	1.776	1.770	1.767	1.765	1.763	1.761	1.760	0.1%
Natural Gas	0.890	0.892	0.910	0.920	0.931	0.931	0.932	0.929	0.929	0.925	0.933	0.925	0.909	0.7%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Pipeline Natural Gas	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.4%
Natural Gas Subtotal	0.899	0.901	0.919	0.929	0.940	0.940	0.942	0.938	0.938	0.935	0.942	0.934	0.918	0.7%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.205	0.207	0.210	0.210	0.210	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.0%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.205	0.207	0.210	0.210	0.210	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.0%
Nuclear Power	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.0%
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Renewable Energy 17/	0.253	0.254	0.254	0.253	0.253	0.253	0.253	0.253	0.253	0.254	0.255	0.255	0.255	0.4%
Electricity Imports	0.023	0.026	0.020	0.021	0.022	0.023	0.025	0.025	0.025	0.025	0.025	0.033	0.035	1.0%
Total	3.590	3.591	3.598	3.601	3.605	3.601	3.601	3.590	3.588	3.583	3.590	3.588	3.573	0.3%
Energy Use & Related Statistics														
Delivered Energy Use	2.803	2.802	2.799	2.797	2.795	2.794	2.796	2.793	2.794	2.796	2.799	2.799	2.802	0.3%
Total Energy Use	3.590	3.591	3.598	3.601	3.605	3.601	3.601	3.590	3.588	3.583	3.590	3.588	3.573	0.3%
Population (millions)	15.304	15.352	15.398	15.440	15.479	15.516	15.549	15.579	15.607	15.635	15.661	15.686	15.709	0.3%
Carbon Dioxide Emissions (million metric tons)	188.55	188.80	188.57	188.07	188.19	187.89	188.10	187.05	187.10	186.74	187.10	186.58	185.60	0.0%

Table 1. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-New England - 01

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.037	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.038	0.038
Kerosene	0.033	0.026	0.031	0.034	0.032	0.029	0.030	0.030	0.031	0.032	0.033	0.034	0.034
Distillate Fuel Oil	0.362	0.292	0.333	0.336	0.331	0.319	0.321	0.322	0.321	0.321	0.321	0.321	0.319
Liquid Fuels and Other Petroleum Subtotal	0.432	0.353	0.400	0.406	0.398	0.384	0.386	0.389	0.389	0.390	0.391	0.393	0.392
Natural Gas	0.910	0.783	0.866	0.893	0.892	0.863	0.868	0.876	0.879	0.885	0.890	0.897	0.897
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Renewable Energy 1/	0.086	0.074	0.088	0.092	0.089	0.084	0.083	0.083	0.082	0.081	0.080	0.080	0.079
Electricity	4.458	4.440	4.461	4.462	4.467	4.470	4.471	4.473	4.458	4.456	4.454	4.455	4.455
Delivered Energy	1.888	1.650	1.816	1.854	1.848	1.804	1.811	1.822	1.810	1.813	1.817	1.826	1.824
Electricity Related Losses	1.076	1.041	1.038	1.047	1.066	1.042	1.040	1.040	1.005	0.991	0.999	1.005	1.010
Total	2.964	2.692	2.854	2.902	2.913	2.845	2.851	2.862	2.815	2.804	2.816	2.832	2.835
Commercial													
Liquefied Petroleum Gases	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Motor Gasoline 2/	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Kerosene	0.009	0.007	0.006	0.006	0.005	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007
Distillate Fuel Oil	0.158	0.142	0.146	0.146	0.132	0.132	0.133	0.135	0.136	0.137	0.138	0.139	0.140
Residual Fuel Oil	0.073	0.074	0.065	0.066	0.067	0.064	0.065	0.067	0.066	0.066	0.066	0.068	0.067
Liquid Fuels and Other Petroleum Subtotal	0.250	0.232	0.227	0.226	0.214	0.212	0.214	0.218	0.218	0.220	0.222	0.224	0.224
Natural Gas	0.608	0.559	0.614	0.612	0.594	0.591	0.599	0.606	0.613	0.620	0.628	0.634	0.640
Coal	0.016	0.016	0.013	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Renewable Energy 3/	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Electricity	0.554	0.550	0.573	0.582	0.574	0.580	0.589	0.596	0.604	0.614	0.622	0.630	0.637
Delivered Energy	1.450	1.379	1.450	1.458	1.420	1.421	1.439	1.458	1.473	1.491	1.509	1.526	1.538
Electricity Related Losses	1.302	1.302	1.292	1.320	1.310	1.286	1.300	1.312	1.324	1.335	1.368	1.391	1.415
Total	2.752	2.682	2.742	2.778	2.730	2.707	2.739	2.769	2.797	2.825	2.877	2.917	2.953
Industrial 4/													
Liquefied Petroleum Gases	0.024	0.024	0.024	0.023	0.024	0.024	0.026	0.025	0.024	0.025	0.025	0.032	0.031
Motor Gasoline 2/	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.025	0.025	0.025	0.025	0.024
Distillate Fuel Oil	0.073	0.070	0.069	0.067	0.065	0.066	0.066	0.065	0.064	0.063	0.063	0.063	0.062
Residual Fuel Oil	0.029	0.027	0.027	0.028	0.023	0.022	0.021	0.029	0.028	0.028	0.028	0.028	0.028
Petrochemical Feedstocks	0.123	0.128	0.115	0.113	0.113	0.118	0.122	0.124	0.127	0.126	0.125	0.123	0.121
Other Petroleum 5/	0.430	0.424	0.409	0.403	0.376	0.372	0.368	0.375	0.365	0.364	0.365	0.368	0.364
Liquid Fuels and Other Petroleum Subtotal	0.706	0.700	0.671	0.661	0.627	0.627	0.629	0.644	0.633	0.631	0.631	0.638	0.629
Natural Gas	0.337	0.342	0.344	0.350	0.407	0.416	0.418	0.403	0.403	0.399	0.396	0.382	0.378
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010
Natural Gas Subtotal	0.343	0.348	0.352	0.358	0.415	0.425	0.427	0.413	0.413	0.409	0.406	0.392	0.388
Metallurgical Coal	0.188	0.183	0.183	0.186	0.182	0.179	0.177	0.172	0.167	0.166	0.166	0.167	0.166
Other Industrial Coal	0.106	0.100	0.102	0.106	0.103	0.102	0.100	0.098	0.095	0.094	0.093	0.092	0.092
Coal-to-Liquids Heat and Power	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.149	-0.204	-0.091	-0.218	-0.098	-0.099	-0.101	-0.101	-0.101	-0.101	-0.101	-0.102	-0.102
Coal Subtotal	0.147	0.079	0.194	0.075	0.187	0.181	0.176	0.169	0.161	0.159	0.158	0.157	0.155
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.012	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Renewable Energy 7/	0.051	0.052	0.053	0.054	0.049	0.050	0.051	0.051	0.051	0.051	0.051	0.051	0.051
Electricity	0.273	0.267	0.252	0.250	0.247	0.254	0.258	0.260	0.260	0.259	0.258	0.258	0.256
Delivered Energy	1.519	1.446	1.522	1.409	1.530	1.542	1.545	1.542	1.523	1.514	1.510	1.501	1.485
Electricity Related Losses	0.641	0.632	0.567	0.566	0.564	0.562	0.570	0.572	0.571	0.564	0.568	0.569	0.567
Total	2.160	2.077	2.089	1.975	2.094	2.105	2.115	2.113	2.094	2.078	2.078	2.069	2.052
Transportation													
Liquefied Petroleum Gases	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.885	1.904	1.917	1.894	1.880	1.873	1.864	1.867	1.868	1.866	1.862	1.857	1.848
Jet Fuel 9/	0.364	0.282	0.282	0.287	0.294	0.303	0.313	0.321	0.325	0.329	0.334	0.339	0.344
Distillate Fuel Oil 10/	0.568	0.586	0.594	0.592	0.597	0.612	0.627	0.638	0.645	0.651	0.658	0.666	0.672
Residual Fuel Oil	0.156	0.157	0.167	0.164	0.161	0.158	0.155	0.155	0.154	0.154	0.154	0.154	0.153

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.019	0.018	0.017	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Liquid Fuels and Other Petroleum Subtotal	2.994	2.948	2.979	2.956	2.951	2.965	2.978	2.999	3.010	3.018	3.026	3.034	3.036
Pipeline Fuel Natural Gas	0.043	0.043	0.044	0.043	0.044	0.043	0.044	0.044	0.044	0.044	0.044	0.045	0.045
Compressed Natural Gas	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.007	0.007
Electricity	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014
Delivered Energy	3.051	3.005	3.038	3.014	3.012	3.025	3.040	3.062	3.073	3.082	3.091	3.100	3.102
Electricity Related Losses	0.028	0.028	0.027	0.028	0.029	0.029	0.029	0.030	0.030	0.030	0.031	0.032	0.032
Total	3.079	3.034	3.066	3.042	3.040	3.054	3.069	3.091	3.103	3.112	3.122	3.131	3.134
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.071	0.068	0.069	0.069	0.068	0.068	0.070	0.070	0.069	0.070	0.071	0.077	0.077
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.914	1.933	1.947	1.924	1.908	1.901	1.892	1.895	1.895	1.893	1.889	1.883	1.875
Jet Fuel 9/	0.364	0.282	0.282	0.287	0.294	0.303	0.313	0.321	0.325	0.329	0.334	0.339	0.344
Kerosene	0.049	0.038	0.042	0.044	0.042	0.041	0.041	0.042	0.043	0.044	0.045	0.046	0.046
Distillate Fuel Oil	1.160	1.091	1.142	1.141	1.126	1.129	1.148	1.160	1.166	1.172	1.180	1.190	1.194
Residual Fuel Oil	0.258	0.258	0.259	0.257	0.251	0.244	0.240	0.251	0.249	0.248	0.250	0.250	0.248
Petrochemical Feedstocks	0.123	0.128	0.115	0.113	0.113	0.118	0.122	0.124	0.127	0.126	0.125	0.123	0.121
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.443	0.437	0.422	0.415	0.388	0.384	0.380	0.386	0.377	0.376	0.377	0.379	0.375
Liquid Fuels and Other Petroleum Subtotal	4.382	4.233	4.277	4.249	4.190	4.189	4.207	4.250	4.251	4.259	4.271	4.288	4.280
Natural Gas	1.857	1.686	1.827	1.857	1.897	1.875	1.889	1.891	1.901	1.910	1.920	1.919	1.921
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010
Pipeline Natural Gas	0.043	0.043	0.044	0.043	0.044	0.043	0.044	0.044	0.044	0.044	0.044	0.045	0.045
Natural Gas Subtotal	1.907	1.735	1.879	1.908	1.949	1.927	1.942	1.944	1.954	1.964	1.975	1.974	1.977
Metallurgical Coal	0.188	0.183	0.183	0.186	0.182	0.179	0.177	0.172	0.167	0.166	0.166	0.167	0.166
Other Coal	0.124	0.117	0.116	0.123	0.120	0.119	0.117	0.115	0.112	0.111	0.110	0.109	0.109
Coal-to-Liquids Heat and Power	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.149	-0.204	-0.091	-0.218	-0.098	-0.099	-0.101	-0.101	-0.101	-0.101	-0.101	-0.102	-0.102
Coal Subtotal	0.164	0.096	0.209	0.092	0.204	0.198	0.193	0.186	0.178	0.176	0.175	0.174	0.172
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.012	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Renewable Energy 13/	0.159	0.148	0.164	0.168	0.161	0.157	0.157	0.156	0.155	0.154	0.154	0.153	0.152
Electricity	1.296	1.268	1.298	1.306	1.301	1.316	1.331	1.342	1.337	1.342	1.349	1.357	1.362
Delivered Energy	7.908	7.481	7.826	7.735	7.809	7.793	7.835	7.883	7.880	7.900	7.927	7.952	7.949
Electricity Related Losses	3.047	3.004	2.925	2.961	2.969	2.919	2.939	2.953	2.930	2.920	2.966	2.997	3.025
Total	10.955	10.484	10.751	10.696	10.778	10.711	10.774	10.836	10.809	10.820	10.893	10.949	10.974
Electric Power 14/													
Distillate Fuel Oil	0.026	0.011	0.021	0.023	0.023	0.025	0.025	0.025	0.025	0.025	0.027	0.028	0.028
Residual Fuel Oil	0.287	0.079	0.099	0.099	0.099	0.099	0.099	0.103	0.103	0.103	0.103	0.103	0.103
Liquid Fuels and Other Petroleum Subtotal	0.312	0.090	0.120	0.121	0.121	0.124	0.124	0.128	0.128	0.128	0.130	0.131	0.131
Natural Gas	0.524	0.645	0.640	0.687	0.685	0.632	0.652	0.651	0.601	0.583	0.628	0.644	0.637
Steam Coal	1.563	1.568	1.491	1.483	1.489	1.441	1.465	1.450	1.449	1.455	1.476	1.493	1.521
Nuclear Power	1.525	1.541	1.552	1.547	1.544	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558
Renewable Energy 15/	0.361	0.359	0.336	0.344	0.354	0.417	0.410	0.441	0.459	0.470	0.468	0.469	0.477
Electricity Imports	0.024	0.034	0.049	0.049	0.042	0.028	0.026	0.032	0.037	0.033	0.021	0.024	0.029
Total 16/	4.344	4.272	4.223	4.267	4.269	4.235	4.271	4.295	4.266	4.262	4.315	4.354	4.387

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	0.071	0.068	0.069	0.069	0.068	0.068	0.070	0.070	0.069	0.070	0.071	0.077	0.077
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.914	1.933	1.947	1.924	1.908	1.901	1.892	1.895	1.895	1.893	1.889	1.883	1.875
Jet Fuel 9/	0.364	0.282	0.282	0.287	0.294	0.303	0.313	0.321	0.325	0.329	0.334	0.339	0.344
Kerosene	0.049	0.038	0.042	0.044	0.042	0.041	0.041	0.042	0.043	0.044	0.045	0.046	0.046
Distillate Fuel Oil	1.186	1.102	1.163	1.164	1.149	1.154	1.173	1.185	1.190	1.197	1.207	1.217	1.221
Residual Fuel Oil	0.545	0.337	0.358	0.356	0.349	0.343	0.339	0.354	0.351	0.351	0.353	0.353	0.351
Petrochemical Feedstocks	0.123	0.128	0.115	0.113	0.113	0.118	0.122	0.124	0.127	0.126	0.125	0.123	0.121
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.443	0.437	0.422	0.415	0.388	0.384	0.380	0.386	0.377	0.376	0.377	0.379	0.375
Liquid Fuels and Other Petroleum Subtotal	4.694	4.323	4.397	4.370	4.311	4.313	4.331	4.378	4.378	4.386	4.401	4.419	4.411
Natural Gas	2.381	2.331	2.467	2.544	2.582	2.507	2.541	2.542	2.502	2.493	2.548	2.564	2.558
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010
Pipeline Natural Gas	0.043	0.043	0.044	0.043	0.044	0.043	0.044	0.044	0.044	0.044	0.044	0.045	0.045
Natural Gas Subtotal	2.430	2.380	2.519	2.595	2.634	2.559	2.594	2.595	2.555	2.546	2.602	2.619	2.614
Metallurgical Coal	0.188	0.183	0.183	0.186	0.182	0.179	0.177	0.172	0.167	0.166	0.166	0.167	0.166
Other Coal	1.687	1.685	1.607	1.606	1.609	1.560	1.583	1.565	1.561	1.566	1.586	1.602	1.629
Coal-to-Liquids Heat and Power	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.149	-0.204	-0.091	-0.218	-0.098	-0.099	-0.101	-0.101	-0.101	-0.101	-0.101	-0.102	-0.102
Coal Subtotal	1.727	1.664	1.700	1.575	1.693	1.640	1.658	1.636	1.627	1.631	1.650	1.666	1.693
Nuclear Power	1.525	1.541	1.552	1.547	1.544	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.012	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Renewable Energy 17/	0.520	0.507	0.500	0.513	0.514	0.574	0.567	0.597	0.613	0.624	0.621	0.623	0.629
Electricity Imports	0.024	0.034	0.049	0.049	0.042	0.028	0.026	0.032	0.037	0.033	0.021	0.024	0.029
Total	10.955	10.484	10.751	10.696	10.778	10.711	10.774	10.836	10.809	10.820	10.893	10.949	10.974
Energy Use & Related Statistics													
Delivered Energy Use	7.908	7.481	7.826	7.735	7.809	7.793	7.835	7.883	7.880	7.900	7.927	7.952	7.949
Total Energy Use	10.955	10.484	10.751	10.696	10.778	10.711	10.774	10.836	10.809	10.820	10.893	10.949	10.974
Population (millions)	40.680	40.830	40.961	41.082	41.195	41.301	41.402	41.499	41.591	41.679	41.761	41.836	41.905
Carbon Dioxide Emissions (million metric tons)	617.54	583.35	593.32	582.45	590.73	580.22	584.44	585.88	583.18	583.48	589.32	593.26	595.32

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.038	0.039	0.039	0.039	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.042	0.8%
Kerosene	0.035	0.036	0.036	0.037	0.037	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.041	2.0%
Distillate Fuel Oil	0.317	0.315	0.313	0.310	0.307	0.304	0.302	0.299	0.296	0.293	0.291	0.287	0.284	-0.1%
Liquid Fuels and Other Petroleum Subtotal	0.391	0.389	0.388	0.386	0.384	0.382	0.381	0.378	0.375	0.373	0.372	0.369	0.367	0.2%
Natural Gas	0.900	0.902	0.907	0.908	0.909	0.910	0.913	0.911	0.912	0.912	0.914	0.910	0.909	0.6%
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0%
Renewable Energy 1/ Electricity	0.078	0.077	0.077	0.076	0.075	0.075	0.074	0.073	0.072	0.072	0.071	0.070	0.070	-0.2%
Delivered Energy	1.826	1.827	1.832	1.829	1.831	1.831	1.837	1.833	1.833	1.835	1.839	1.834	1.833	0.4%
Electricity Related Losses	1.014	1.012	1.008	1.003	1.001	1.006	1.014	1.017	1.029	1.042	1.060	1.080	1.075	0.1%
Total	2.840	2.840	2.840	2.832	2.832	2.838	2.851	2.849	2.862	2.877	2.899	2.914	2.908	0.3%
Commercial														
Liquefied Petroleum Gases	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.4%
Motor Gasoline 2/ Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.6%
Distillate Fuel Oil	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.1%
Residual Fuel Oil	0.140	0.139	0.139	0.138	0.138	0.138	0.137	0.137	0.136	0.136	0.136	0.135	0.135	-0.2%
Liquid Fuels and Other Petroleum Subtotal	0.067	0.067	0.067	0.068	0.068	0.067	0.067	0.067	0.068	0.068	0.067	0.067	0.068	-0.4%
Natural Gas	0.223	0.223	0.222	0.222	0.222	0.222	0.221	0.221	0.221	0.221	0.220	0.219	0.219	-0.2%
Coal	0.645	0.650	0.655	0.662	0.668	0.673	0.678	0.683	0.689	0.695	0.701	0.708	0.715	1.0%
Renewable Energy 3/ Electricity	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	-0.2%
Delivered Energy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.0%
Electricity Related Losses	1.433	1.442	1.450	1.460	1.465	1.479	1.491	1.502	1.521	1.542	1.565	1.601	1.594	0.8%
Total	2.983	3.004	3.023	3.048	3.066	3.091	3.114	3.136	3.167	3.200	3.233	3.281	3.286	0.8%
Industrial 4/														
Liquefied Petroleum Gases	0.030	0.029	0.028	0.020	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.015	-1.8%
Motor Gasoline 2/ Distillate Fuel Oil	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	-0.7%
Residual Fuel Oil	0.061	0.060	0.059	0.058	0.058	0.057	0.056	0.056	0.055	0.055	0.054	0.053	0.053	-1.2%
Petrochemical Feedstocks	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.0%
Other Petroleum 5/ Liquid Fuels and Other Petroleum Subtotal	0.118	0.114	0.112	0.110	0.107	0.105	0.102	0.100	0.098	0.096	0.093	0.091	0.088	-1.5%
Natural Gas	0.358	0.354	0.350	0.354	0.353	0.351	0.359	0.360	0.359	0.368	0.367	0.365	0.375	-0.5%
Natural-Gas-to-Liquids Heat and Power	0.619	0.608	0.600	0.593	0.586	0.580	0.584	0.582	0.578	0.585	0.580	0.574	0.581	-0.8%
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.375	0.373	0.372	0.373	0.372	0.370	0.362	0.361	0.359	0.354	0.352	0.347	0.339	0.0%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Industrial Coal	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	2.2%
Coal-to-Liquids Heat and Power	0.386	0.383	0.383	0.384	0.382	0.381	0.372	0.372	0.370	0.365	0.363	0.358	0.351	0.0%
Net Coal Coke Imports	0.165	0.163	0.162	0.162	0.160	0.159	0.157	0.155	0.152	0.150	0.147	0.143	0.139	-1.1%
Coal Subtotal	0.091	0.090	0.090	0.089	0.089	0.088	0.088	0.088	0.087	0.087	0.086	0.086	0.085	-0.7%
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-34.8%
Renewable Energy 7/ Electricity	-0.102	-0.101	-0.101	-0.100	-0.100	-0.099	-0.097	-0.096	-0.095	-0.093	-0.091	-0.089	-0.087	-3.5%
Delivered Energy	0.154	0.152	0.151	0.151	0.150	0.149	0.147	0.146	0.143	0.142	0.142	0.140	0.138	2.3%
Electricity Related Losses	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000	0.005	--
Total	0.051	0.051	0.051	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.0%
Electricity Related Losses	0.253	0.250	0.248	0.245	0.242	0.239	0.235	0.232	0.229	0.227	0.224	0.221	0.218	-0.8%
Delivered Energy	1.468	1.451	1.438	1.430	1.417	1.405	1.396	1.389	1.378	1.377	1.365	1.344	1.343	-0.3%
Electricity Related Losses	0.563	0.554	0.545	0.538	0.526	0.519	0.511	0.504	0.499	0.498	0.494	0.494	0.482	-1.1%
Total	2.030	2.005	1.983	1.967	1.943	1.924	1.907	1.893	1.877	1.874	1.859	1.838	1.826	-0.5%
Transportation														
Liquefied Petroleum Gases	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-4.3%
E85 8/ Motor Gasoline 2/ Jet Fuel 9/ Distillate Fuel Oil 10/ Residual Fuel Oil	0.001	0.001	0.023	0.140	0.206	0.239	0.210	0.002	0.002	0.002	0.001	0.001	0.001	12.7%
Delivered Energy	1.835	1.816	1.776	1.669	1.600	1.558	1.565	1.712	1.699	1.689	1.679	1.671	1.665	-0.6%
Electricity Related Losses	0.349	0.353	0.358	0.363	0.367	0.371	0.375	0.379	0.383	0.387	0.391	0.395	0.399	1.5%
Delivered Energy	0.680	0.688	0.698	0.707	0.717	0.727	0.738	0.748	0.760	0.772	0.784	0.796	0.808	1.4%
Electricity Related Losses	0.153	0.152	0.152	0.152	0.151	0.151	0.150	0.150	0.149	0.149	0.148	0.148	0.147	-0.3%

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.0%
Other Petroleum 11/	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	-0.4%
Liquid Fuels and Other Petroleum Subtotal	3.035	3.028	3.025	3.047	3.058	3.063	3.055	3.008	3.011	3.016	3.021	3.028	3.038	0.1%
Pipeline Fuel Natural Gas	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.045	0.2%
Compressed Natural Gas	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	5.1%
Electricity	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	1.4%
Delivered Energy	3.102	3.095	3.092	3.116	3.127	3.132	3.125	3.078	3.081	3.086	3.092	3.098	3.108	0.1%
Electricity Related Losses	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.035	0.035	0.036	0.036	0.037	0.037	1.1%
Total	3.134	3.128	3.126	3.149	3.161	3.166	3.159	3.113	3.116	3.121	3.128	3.136	3.145	0.2%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.076	0.076	0.076	0.068	0.065	0.065	0.065	0.065	0.066	0.066	0.066	0.066	0.066	-0.1%
E85 8/	0.001	0.001	0.023	0.140	0.206	0.239	0.210	0.002	0.002	0.002	0.001	0.001	0.001	12.7%
Motor Gasoline 2/	1.862	1.842	1.802	1.694	1.625	1.583	1.590	1.737	1.725	1.714	1.704	1.696	1.690	-0.6%
Jet Fuel 9/	0.349	0.353	0.358	0.363	0.367	0.371	0.375	0.379	0.383	0.387	0.391	0.395	0.399	1.5%
Kerosene	0.047	0.047	0.048	0.049	0.049	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.053	1.4%
Distillate Fuel Oil	1.198	1.202	1.209	1.214	1.219	1.226	1.233	1.239	1.247	1.255	1.264	1.271	1.280	0.7%
Residual Fuel Oil	0.248	0.247	0.247	0.246	0.246	0.245	0.244	0.244	0.244	0.244	0.243	0.242	0.242	-0.3%
Petrochemical Feedstocks	0.118	0.114	0.112	0.110	0.107	0.105	0.102	0.100	0.098	0.096	0.093	0.091	0.088	-1.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.0%
Other Petroleum 12/	0.370	0.365	0.361	0.365	0.365	0.363	0.370	0.371	0.370	0.379	0.378	0.376	0.386	-0.5%
Liquid Fuels and Other Petroleum Subtotal	4.268	4.249	4.235	4.248	4.250	4.246	4.242	4.189	4.185	4.194	4.193	4.191	4.204	0.0%
Natural Gas	1.927	1.931	1.942	1.950	1.957	1.962	1.961	1.964	1.968	1.970	1.976	1.973	1.971	0.7%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	2.2%
Pipeline Natural Gas	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.045	0.2%
Natural Gas Subtotal	1.982	1.987	1.998	2.007	2.013	2.018	2.018	2.020	2.025	2.026	2.032	2.029	2.027	0.7%
Metallurgical Coal	0.165	0.163	0.162	0.162	0.160	0.159	0.157	0.155	0.152	0.150	0.147	0.143	0.139	-1.1%
Other Coal	0.108	0.107	0.107	0.106	0.106	0.105	0.105	0.104	0.104	0.103	0.103	0.102	0.102	-0.6%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-34.8%
Net Coal Coke Imports	-0.102	-0.101	-0.101	-0.100	-0.100	-0.099	-0.097	-0.096	-0.095	-0.093	-0.091	-0.089	-0.087	-3.5%
Coal Subtotal	0.171	0.169	0.168	0.168	0.167	0.165	0.164	0.163	0.161	0.160	0.158	0.156	0.154	2.0%
Biofuels Heat and Coproducts	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	--
Renewable Energy 13/	0.152	0.151	0.151	0.150	0.149	0.149	0.148	0.147	0.147	0.146	0.145	0.144	0.144	-0.1%
Electricity	1.368	1.374	1.379	1.385	1.391	1.397	1.404	1.409	1.416	1.423	1.430	1.436	1.442	0.5%
Delivered Energy	7.945	7.935	7.936	7.962	7.975	7.981	7.981	7.933	7.938	7.955	7.964	7.957	7.976	0.3%
Electricity Related Losses	3.042	3.041	3.036	3.033	3.026	3.037	3.050	3.058	3.085	3.118	3.155	3.211	3.188	0.2%
Total	10.988	10.977	10.972	10.996	11.002	11.018	11.031	10.991	11.023	11.073	11.119	11.168	11.164	0.3%
Electric Power 14/														
Distillate Fuel Oil	0.028	0.027	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.025	0.024	0.023	3.1%
Residual Fuel Oil	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	1.1%
Liquid Fuels and Other Petroleum Subtotal	0.130	0.130	0.130	0.130	0.130	0.129	0.129	0.129	0.129	0.128	0.128	0.127	0.126	1.4%
Natural Gas	0.608	0.589	0.577	0.571	0.566	0.561	0.561	0.553	0.540	0.523	0.509	0.498	0.493	-1.1%
Steam Coal	1.565	1.599	1.611	1.624	1.627	1.639	1.650	1.668	1.715	1.777	1.832	1.906	2.028	1.1%
Nuclear Power	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.541	1.409	-0.4%
Renewable Energy 15/	0.487	0.472	0.477	0.475	0.476	0.485	0.490	0.494	0.494	0.490	0.494	0.501	0.497	1.4%
Electricity Imports	0.027	0.032	0.025	0.026	0.026	0.028	0.031	0.030	0.030	0.030	0.030	0.040	0.043	1.0%
Total 16/	4.410	4.415	4.415	4.418	4.417	4.434	4.454	4.467	4.500	4.542	4.586	4.647	4.630	0.3%

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	0.076	0.076	0.076	0.068	0.065	0.065	0.065	0.065	0.066	0.066	0.066	0.066	0.066	-0.1%
E85 8/	0.001	0.001	0.023	0.140	0.206	0.239	0.210	0.002	0.002	0.002	0.001	0.001	0.001	12.7%
Motor Gasoline 2/	1.862	1.842	1.802	1.694	1.625	1.583	1.590	1.737	1.725	1.714	1.704	1.696	1.690	-0.6%
Jet Fuel 9/	0.349	0.353	0.358	0.363	0.367	0.371	0.375	0.379	0.383	0.387	0.391	0.395	0.399	1.5%
Kerosene	0.047	0.047	0.048	0.049	0.049	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.053	1.4%
Distillate Fuel Oil	1.226	1.230	1.236	1.241	1.246	1.252	1.260	1.266	1.273	1.281	1.289	1.295	1.303	0.7%
Residual Fuel Oil	0.351	0.350	0.349	0.349	0.348	0.348	0.347	0.347	0.347	0.347	0.346	0.345	0.345	0.1%
Petrochemical Feedstocks	0.118	0.114	0.112	0.110	0.107	0.105	0.102	0.100	0.098	0.096	0.093	0.091	0.088	-1.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.0%
Other Petroleum 12/	0.370	0.365	0.361	0.365	0.365	0.363	0.370	0.371	0.370	0.379	0.378	0.376	0.386	-0.5%
Liquid Fuels and Other Petroleum Subtotal	4.398	4.379	4.366	4.378	4.379	4.376	4.371	4.317	4.314	4.323	4.321	4.317	4.330	0.0%
Natural Gas	2.534	2.520	2.520	2.522	2.522	2.522	2.522	2.517	2.509	2.493	2.484	2.471	2.464	0.2%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	2.2%
Pipeline Natural Gas	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.045	0.2%
Natural Gas Subtotal	2.590	2.576	2.576	2.578	2.579	2.579	2.574	2.565	2.549	2.541	2.527	2.527	2.520	0.2%
Metallurgical Coal	0.165	0.163	0.162	0.162	0.160	0.159	0.157	0.155	0.152	0.150	0.147	0.143	0.139	-1.1%
Other Coal	1.673	1.707	1.718	1.730	1.732	1.744	1.755	1.773	1.819	1.881	1.935	2.008	2.130	1.0%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-34.8%
Net Coal Coke Imports	-0.102	-0.101	-0.101	-0.100	-0.100	-0.099	-0.097	-0.096	-0.095	-0.093	-0.091	-0.089	-0.087	-3.5%
Coal Subtotal	1.735	1.769	1.780	1.791	1.793	1.804	1.814	1.831	1.876	1.937	1.991	2.062	2.182	1.1%
Nuclear Power	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.541	1.409	-0.4%
Biofuels Heat and Coproducts	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	--
Renewable Energy 17/	0.639	0.623	0.628	0.625	0.626	0.634	0.638	0.641	0.640	0.636	0.639	0.645	0.641	1.0%
Electricity Imports	0.027	0.032	0.025	0.026	0.026	0.028	0.031	0.030	0.030	0.030	0.030	0.040	0.043	1.0%
Total	10.988	10.977	10.972	10.996	11.002	11.018	11.031	10.991	11.023	11.073	11.119	11.168	11.164	0.3%
Energy Use & Related Statistics														
Delivered Energy Use	7.945	7.935	7.936	7.962	7.975	7.981	7.981	7.933	7.938	7.955	7.964	7.957	7.976	0.3%
Total Energy Use	10.988	10.977	10.972	10.996	11.002	11.018	11.031	10.991	11.023	11.073	11.119	11.168	11.164	0.3%
Population (millions)	41.966	42.020	42.066	42.106	42.142	42.172	42.196	42.215	42.232	42.247	42.260	42.271	42.280	0.1%
Carbon Dioxide Emissions (million metric tons)	597.51	599.18	598.57	595.58	593.59	593.32	595.54	602.21	606.01	611.83	616.52	622.42	634.57	0.4%

Table 2. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Middle Atlantic - 02

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.128	0.121	0.126	0.129	0.126	0.126	0.127	0.129	0.131	0.132	0.134	0.136	0.137
Kerosene	0.008	0.007	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Distillate Fuel Oil	0.044	0.038	0.042	0.044	0.042	0.041	0.041	0.041	0.041	0.041	0.041	0.042	0.041
Liquid Fuels and Other Petroleum Subtotal	0.181	0.165	0.176	0.181	0.176	0.173	0.175	0.177	0.179	0.181	0.182	0.184	0.185
Natural Gas	1.440	1.272	1.393	1.412	1.428	1.392	1.401	1.413	1.417	1.423	1.430	1.439	1.437
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Renewable Energy 1/	0.109	0.096	0.109	0.117	0.110	0.104	0.102	0.101	0.100	0.098	0.097	0.096	0.095
Electricity	0.664	0.636	0.666	0.671	0.672	0.677	0.679	0.683	0.662	0.660	0.659	0.662	0.662
Delivered Energy	2.396	2.171	2.345	2.383	2.387	2.348	2.359	2.376	2.359	2.364	2.370	2.383	2.381
Electricity Related Losses	1.577	1.511	1.574	1.599	1.626	1.649	1.673	1.696	1.670	1.670	1.646	1.650	1.643
Total	3.974	3.682	3.919	3.982	4.013	3.997	4.032	4.073	4.029	4.034	4.016	4.034	4.024
Commercial													
Liquefied Petroleum Gases	0.019	0.018	0.020	0.020	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Motor Gasoline 2/	0.007	0.007	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008
Kerosene	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Distillate Fuel Oil	0.039	0.038	0.038	0.039	0.033	0.033	0.034	0.035	0.036	0.036	0.037	0.037	0.038
Residual Fuel Oil	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Liquid Fuels and Other Petroleum Subtotal	0.071	0.069	0.071	0.071	0.063	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.070
Natural Gas	0.727	0.674	0.714	0.728	0.702	0.701	0.712	0.722	0.731	0.740	0.749	0.756	0.762
Coal	0.025	0.025	0.020	0.026	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Renewable Energy 3/	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
Electricity	0.624	0.623	0.647	0.649	0.659	0.664	0.674	0.684	0.696	0.710	0.723	0.735	0.747
Delivered Energy	1.474	1.418	1.479	1.501	1.475	1.483	1.504	1.525	1.547	1.571	1.593	1.614	1.631
Electricity Related Losses	1.482	1.480	1.527	1.549	1.594	1.619	1.661	1.699	1.755	1.796	1.804	1.833	1.852
Total	2.956	2.898	3.006	3.049	3.069	3.102	3.165	3.224	3.302	3.367	3.397	3.447	3.483
Industrial 4/													
Liquefied Petroleum Gases	0.094	0.094	0.096	0.096	0.093	0.092	0.091	0.089	0.087	0.086	0.085	0.084	0.082
Motor Gasoline 2/	0.055	0.054	0.054	0.055	0.053	0.053	0.054	0.054	0.053	0.053	0.053	0.053	0.052
Distillate Fuel Oil	0.176	0.177	0.184	0.190	0.182	0.183	0.182	0.179	0.175	0.174	0.174	0.173	0.172
Residual Fuel Oil	0.021	0.022	0.022	0.022	0.020	0.019	0.018	0.018	0.017	0.016	0.023	0.022	0.020
Petrochemical Feedstocks	0.139	0.138	0.125	0.126	0.128	0.132	0.135	0.137	0.140	0.139	0.138	0.136	0.135
Other Petroleum 5/	0.651	0.631	0.608	0.608	0.485	0.577	0.591	0.595	0.610	0.609	0.606	0.603	0.599
Liquid Fuels and Other Petroleum Subtotal	1.136	1.116	1.089	1.096	0.961	1.056	1.073	1.073	1.081	1.077	1.078	1.071	1.061
Natural Gas	1.167	1.133	1.166	1.221	1.238	1.196	1.201	1.206	1.179	1.169	1.170	1.166	1.163
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.012	0.019	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012
Natural Gas Subtotal	1.179	1.152	1.177	1.231	1.248	1.207	1.211	1.217	1.190	1.180	1.182	1.177	1.175
Metallurgical Coal	0.295	0.288	0.294	0.305	0.293	0.282	0.273	0.262	0.252	0.248	0.244	0.242	0.240
Other Industrial Coal	0.334	0.332	0.347	0.363	0.359	0.353	0.346	0.338	0.329	0.327	0.325	0.324	0.323
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.027	0.000	0.000	0.001	0.013	0.049
Net Coal Coke Imports	0.227	0.313	0.140	0.337	0.152	0.152	0.153	0.153	0.152	0.152	0.152	0.153	0.154
Coal Subtotal	0.856	0.933	0.781	1.005	0.804	0.787	0.789	0.780	0.733	0.726	0.723	0.732	0.765
Biofuels Heat and Coproducts	0.053	0.065	0.087	0.131	0.161	0.194	0.194	0.221	0.238	0.243	0.261	0.289	0.305
Renewable Energy 7/	0.140	0.141	0.145	0.147	0.137	0.141	0.145	0.146	0.147	0.149	0.151	0.152	0.154
Electricity	0.731	0.719	0.729	0.728	0.743	0.757	0.768	0.773	0.771	0.771	0.774	0.776	0.777
Delivered Energy	4.095	4.126	4.008	4.338	4.053	4.142	4.180	4.211	4.161	4.145	4.168	4.199	4.236
Electricity Related Losses	1.736	1.706	1.721	1.737	1.797	1.844	1.894	1.920	1.944	1.951	1.931	1.935	1.927
Total	5.831	5.833	5.729	6.076	5.850	5.986	6.075	6.131	6.106	6.096	6.099	6.134	6.162

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
E85 8/	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.228
Motor Gasoline 2/	2.593	2.619	2.638	2.589	2.555	2.532	2.508	2.505	2.502	2.495	2.488	2.479	2.255
Jet Fuel 9/	0.269	0.265	0.266	0.272	0.278	0.286	0.295	0.303	0.306	0.311	0.315	0.320	0.324
Distillate Fuel Oil 10/	0.909	0.938	0.951	0.947	0.955	0.980	1.006	1.022	1.032	1.041	1.051	1.063	1.071
Residual Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.026	0.025	0.024	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Liquid Fuels and Other Petroleum Subtotal	3.803	3.854	3.885	3.838	3.818	3.829	3.839	3.861	3.871	3.877	3.885	3.892	3.907
Pipeline Fuel Natural Gas	0.064	0.063	0.063	0.062	0.064	0.063	0.063	0.063	0.062	0.062	0.062	0.062	0.062
Compressed Natural Gas	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007
Electricity	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Delivered Energy	3.871	3.922	3.954	3.906	3.889	3.899	3.910	3.933	3.942	3.949	3.956	3.964	3.979
Electricity Related Losses	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Total	3.877	3.928	3.960	3.912	3.895	3.905	3.917	3.939	3.948	3.955	3.962	3.970	3.985
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.245	0.236	0.245	0.249	0.241	0.241	0.241	0.242	0.241	0.241	0.242	0.243	0.242
E85 8/	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.228
Motor Gasoline 2/	2.655	2.681	2.699	2.651	2.615	2.593	2.569	2.566	2.562	2.556	2.548	2.539	2.315
Jet Fuel 9/	0.269	0.265	0.266	0.272	0.278	0.286	0.295	0.303	0.306	0.311	0.315	0.320	0.324
Kerosene	0.013	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Distillate Fuel Oil	1.168	1.191	1.215	1.219	1.211	1.237	1.264	1.278	1.284	1.292	1.303	1.314	1.321
Residual Fuel Oil	0.027	0.028	0.029	0.028	0.026	0.025	0.024	0.024	0.023	0.022	0.022	0.028	0.026
Petrochemical Feedstocks	0.139	0.138	0.125	0.126	0.128	0.132	0.135	0.137	0.140	0.139	0.138	0.136	0.135
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.675	0.654	0.631	0.629	0.507	0.599	0.613	0.617	0.632	0.631	0.628	0.625	0.621
Liquid Fuels and Other Petroleum Subtotal	5.191	5.204	5.222	5.186	5.017	5.124	5.153	5.179	5.199	5.203	5.213	5.217	5.224
Natural Gas	3.336	3.081	3.276	3.364	3.372	3.295	3.319	3.347	3.333	3.339	3.356	3.368	3.370
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.012	0.019	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012
Pipeline Natural Gas	0.064	0.063	0.063	0.062	0.064	0.063	0.063	0.063	0.062	0.062	0.062	0.062	0.062
Natural Gas Subtotal	3.412	3.163	3.350	3.436	3.446	3.368	3.392	3.421	3.407	3.413	3.430	3.442	3.443
Metallurgical Coal	0.295	0.288	0.294	0.305	0.293	0.282	0.273	0.262	0.252	0.248	0.244	0.242	0.240
Other Coal	0.361	0.359	0.370	0.391	0.386	0.380	0.373	0.365	0.356	0.354	0.352	0.351	0.350
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.027	0.000	0.000	0.001	0.013	0.049
Net Coal Coke Imports	0.227	0.313	0.140	0.337	0.152	0.152	0.153	0.153	0.152	0.152	0.152	0.153	0.154
Coal Subtotal	0.882	0.960	0.803	1.033	0.831	0.814	0.816	0.807	0.760	0.753	0.749	0.759	0.792
Biofuels Heat and Coproducts	0.053	0.065	0.087	0.131	0.161	0.194	0.194	0.221	0.238	0.243	0.261	0.289	0.305
Renewable Energy 13/	0.276	0.265	0.281	0.291	0.274	0.273	0.274	0.275	0.274	0.274	0.275	0.276	0.276
Electricity	2.022	1.981	2.044	2.051	2.076	2.100	2.123	2.141	2.132	2.143	2.158	2.176	2.188
Delivered Energy	11.836	11.638	11.787	12.128	11.805	11.873	11.954	12.044	12.010	12.028	12.087	12.160	12.227
Electricity Related Losses	4.801	4.703	4.827	4.891	5.022	5.118	5.234	5.322	5.375	5.423	5.388	5.425	5.428
Total	16.638	16.341	16.614	17.020	16.827	16.991	17.188	17.367	17.385	17.452	17.475	17.585	17.655

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power 14/													
Distillate Fuel Oil	0.038	0.030	0.034	0.034	0.034	0.035	0.037	0.037	0.036	0.032	0.029	0.028	0.028
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.038	0.030	0.034	0.034	0.035	0.035	0.037	0.037	0.036	0.032	0.029	0.028	0.028
Natural Gas	0.316	0.257	0.413	0.511	0.587	0.530	0.514	0.507	0.463	0.462	0.464	0.463	0.438
Steam Coal	4.790	4.717	4.728	4.691	4.759	4.854	4.945	5.038	5.104	5.149	5.105	5.130	5.148
Nuclear Power	1.582	1.575	1.588	1.583	1.572	1.573	1.578	1.581	1.581	1.581	1.581	1.581	1.581
Renewable Energy 15/	0.092	0.097	0.102	0.118	0.138	0.218	0.274	0.293	0.315	0.335	0.358	0.389	0.412
Electricity Imports	-0.008	-0.005	-0.007	-0.007	-0.006	-0.004	-0.004	-0.005	-0.005	-0.005	-0.005	-0.004	-0.004
Total 16/	6.823	6.683	6.871	6.942	7.098	7.218	7.357	7.464	7.507	7.566	7.546	7.601	7.616
Total Energy Consumption													
Liquefied Petroleum Gases	0.245	0.236	0.245	0.249	0.241	0.241	0.241	0.242	0.241	0.241	0.242	0.243	0.242
E85 8/	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.228
Motor Gasoline 2/	2.655	2.681	2.699	2.651	2.615	2.593	2.569	2.566	2.562	2.556	2.548	2.539	2.315
Jet Fuel 9/	0.269	0.265	0.266	0.272	0.278	0.286	0.295	0.303	0.306	0.311	0.315	0.320	0.324
Kerosene	0.013	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Distillate Fuel Oil	1.206	1.221	1.249	1.253	1.246	1.272	1.300	1.315	1.320	1.323	1.331	1.343	1.349
Residual Fuel Oil	0.027	0.028	0.029	0.028	0.026	0.025	0.024	0.024	0.023	0.022	0.028	0.028	0.026
Petrochemical Feedstocks	0.139	0.138	0.125	0.126	0.128	0.132	0.135	0.137	0.140	0.139	0.138	0.136	0.135
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.675	0.654	0.631	0.629	0.507	0.599	0.613	0.617	0.632	0.631	0.628	0.625	0.621
Liquid Fuels and Other Petroleum Subtotal	5.228	5.235	5.256	5.220	5.052	5.159	5.191	5.216	5.235	5.235	5.242	5.246	5.252
Natural Gas	3.652	3.338	3.689	3.875	3.959	3.825	3.833	3.854	3.797	3.801	3.820	3.831	3.808
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.012	0.019	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012
Pipeline Natural Gas	0.064	0.063	0.063	0.062	0.064	0.063	0.063	0.063	0.062	0.062	0.062	0.062	0.062
Natural Gas Subtotal	3.728	3.420	3.763	3.947	4.032	3.898	3.907	3.928	3.870	3.874	3.893	3.905	3.881
Metallurgical Coal	0.295	0.288	0.294	0.305	0.293	0.282	0.273	0.262	0.252	0.248	0.244	0.242	0.240
Other Coal	5.151	5.076	5.098	5.082	5.146	5.234	5.318	5.403	5.460	5.503	5.457	5.481	5.497
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.027	0.000	0.000	0.001	0.013	0.049
Net Coal Coke Imports	0.227	0.313	0.140	0.337	0.152	0.152	0.153	0.153	0.152	0.152	0.152	0.153	0.154
Coal Subtotal	5.672	5.677	5.531	5.723	5.590	5.668	5.761	5.845	5.864	5.902	5.854	5.889	5.940
Nuclear Power	1.582	1.575	1.588	1.583	1.572	1.573	1.578	1.581	1.581	1.581	1.581	1.581	1.581
Biofuels Heat and Coproducts	0.053	0.065	0.087	0.131	0.161	0.194	0.194	0.221	0.238	0.243	0.261	0.289	0.305
Renewable Energy 17/	0.368	0.362	0.383	0.409	0.412	0.491	0.548	0.568	0.589	0.609	0.633	0.665	0.688
Electricity Imports	-0.008	-0.005	-0.007	-0.007	-0.006	-0.004	-0.004	-0.005	-0.005	-0.005	-0.003	-0.004	-0.004
Total	16.638	16.341	16.614	17.020	16.827	16.991	17.188	17.367	17.385	17.452	17.475	17.585	17.655
Energy Use & Related Statistics													
Delivered Energy Use	11.836	11.638	11.787	12.128	11.805	11.873	11.954	12.044	12.010	12.028	12.087	12.160	12.227
Total Energy Use	16.638	16.341	16.614	17.020	16.827	16.991	17.188	17.367	17.385	17.452	17.475	17.585	17.655
Population (millions)	46.474	46.669	46.846	47.014	47.177	47.333	47.483	47.628	47.765	47.895	48.017	48.129	48.233
Carbon Dioxide Emissions (million metric tons)	1074.46	1056.06	1063.66	1086.63	1066.57	1071.79	1082.51	1093.66	1094.23	1097.72	1094.73	1099.26	1094.14

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.139	0.140	0.142	0.143	0.145	0.146	0.148	0.149	0.150	0.152	0.153	0.154	0.156	1.1%
Kerosene	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.8%
Distillate Fuel Oil	0.041	0.041	0.040	0.040	0.040	0.039	0.039	0.039	0.038	0.038	0.037	0.037	0.037	-0.1%
Liquid Fuels and Other Petroleum Subtotal	0.186	0.187	0.189	0.190	0.191	0.192	0.193	0.194	0.195	0.195	0.197	0.197	0.198	0.7%
Natural Gas	1.438	1.439	1.445	1.444	1.444	1.443	1.444	1.437	1.434	1.431	1.430	1.421	1.416	0.4%
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-0.2%
Renewable Energy 1/	0.094	0.093	0.092	0.091	0.090	0.089	0.089	0.088	0.087	0.086	0.086	0.085	0.084	-0.6%
Electricity	0.664	0.666	0.667	0.668	0.671	0.675	0.682	0.686	0.692	0.698	0.706	0.710	0.715	0.5%
Delivered Energy	2.384	2.387	2.395	2.394	2.398	2.401	2.410	2.406	2.409	2.412	2.420	2.414	2.415	0.4%
Electricity Related Losses	1.640	1.631	1.620	1.616	1.627	1.630	1.648	1.654	1.654	1.655	1.667	1.667	1.680	0.4%
Total	4.024	4.018	4.015	4.009	4.025	4.031	4.058	4.059	4.064	4.067	4.087	4.082	4.095	0.4%
Commercial														
Liquefied Petroleum Gases	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.6%
Motor Gasoline 2/	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.2%
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.1%
Distillate Fuel Oil	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.0%
Residual Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-1.0%
Liquid Fuels and Other Petroleum Subtotal	0.070	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.072	0.072	0.072	0.072	0.2%
Natural Gas	0.766	0.771	0.776	0.783	0.788	0.791	0.794	0.798	0.802	0.805	0.808	0.812	0.815	0.8%
Coal	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.0%
Renewable Energy 3/	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.0%
Electricity	0.757	0.768	0.779	0.790	0.801	0.812	0.823	0.833	0.845	0.856	0.867	0.878	0.888	1.5%
Delivered Energy	1.646	1.661	1.678	1.696	1.712	1.727	1.741	1.755	1.770	1.785	1.799	1.813	1.827	1.1%
Electricity Related Losses	1.869	1.880	1.890	1.913	1.942	1.960	1.988	2.010	2.020	2.030	2.048	2.062	2.085	1.4%
Total	3.516	3.541	3.568	3.609	3.654	3.686	3.729	3.765	3.790	3.815	3.847	3.876	3.912	1.3%
Industrial 4/														
Liquefied Petroleum Gases	0.081	0.079	0.078	0.077	0.076	0.075	0.074	0.073	0.073	0.072	0.071	0.070	0.070	-1.2%
Motor Gasoline 2/	0.052	0.052	0.051	0.051	0.051	0.051	0.051	0.051	0.052	0.052	0.051	0.051	0.051	-0.2%
Distillate Fuel Oil	0.171	0.169	0.167	0.166	0.165	0.164	0.163	0.163	0.163	0.163	0.162	0.162	0.162	-0.4%
Residual Fuel Oil	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	-1.8%
Petrochemical Feedstocks	0.133	0.131	0.129	0.127	0.125	0.124	0.123	0.121	0.120	0.119	0.118	0.116	0.115	-0.8%
Other Petroleum 5/	0.596	0.591	0.587	0.586	0.587	0.589	0.586	0.590	0.596	0.601	0.602	0.605	0.612	-0.1%
Liquid Fuels and Other Petroleum Subtotal	1.049	1.038	1.028	1.023	1.020	1.018	1.012	1.013	1.017	1.021	1.019	1.019	1.024	-0.4%
Natural Gas	1.164	1.164	1.164	1.173	1.169	1.166	1.154	1.146	1.139	1.132	1.123	1.110	1.101	-0.1%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	-2.2%
Natural Gas Subtotal	1.175	1.176	1.175	1.184	1.181	1.178	1.165	1.157	1.150	1.143	1.134	1.121	1.112	-0.1%
Metallurgical Coal	0.237	0.235	0.233	0.231	0.229	0.226	0.223	0.220	0.216	0.213	0.209	0.204	0.199	-1.5%
Other Industrial Coal	0.322	0.321	0.321	0.320	0.320	0.320	0.319	0.318	0.318	0.317	0.316	0.316	0.315	-0.2%
Coal-to-Liquids Heat and Power	0.035	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-27.0%
Net Coal Coke Imports	0.154	0.154	0.154	0.155	0.154	0.154	0.153	0.152	0.151	0.149	0.147	0.144	0.142	-3.2%
Coal Subtotal	0.748	0.717	0.708	0.706	0.703	0.700	0.695	0.690	0.684	0.679	0.672	0.664	0.656	-1.5%
Biofuels Heat and Coproducts	0.321	0.350	0.367	0.430	0.585	0.579	0.574	0.592	0.611	0.603	0.623	0.611	0.624	9.9%
Renewable Energy 7/	0.155	0.156	0.158	0.159	0.160	0.161	0.162	0.164	0.165	0.166	0.167	0.168	0.169	0.8%
Electricity	0.776	0.774	0.771	0.770	0.765	0.761	0.757	0.754	0.752	0.748	0.744	0.738	0.734	0.1%
Delivered Energy	4.224	4.211	4.208	4.271	4.413	4.397	4.365	4.370	4.379	4.360	4.358	4.321	4.318	0.2%
Electricity Related Losses	1.915	1.894	1.872	1.863	1.853	1.837	1.829	1.818	1.797	1.774	1.757	1.735	1.724	0.0%
Total	6.139	6.105	6.079	6.134	6.267	6.234	6.194	6.188	6.177	6.135	6.115	6.056	6.042	0.1%

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-0.5%
E85 8/	0.264	0.274	0.297	0.315	0.330	0.340	0.343	0.357	0.361	0.367	0.371	0.372	0.378	34.3%
Motor Gasoline 2/	2.203	2.167	2.115	2.075	2.038	2.007	1.984	1.952	1.933	1.914	1.897	1.885	1.870	-1.4%
Jet Fuel 9/	0.329	0.333	0.337	0.342	0.346	0.350	0.353	0.357	0.361	0.365	0.368	0.372	0.375	1.5%
Distillate Fuel Oil 10/	1.080	1.091	1.103	1.116	1.128	1.141	1.155	1.169	1.184	1.199	1.215	1.230	1.246	1.2%
Residual Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-0.3%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.8%
Other Petroleum 11/	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	-0.3%
Liquid Fuels and Other Petroleum Subtotal	3.906	3.895	3.882	3.876	3.871	3.867	3.865	3.866	3.868	3.874	3.880	3.888	3.899	0.0%
Pipeline Fuel Natural Gas	0.062	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	-0.1%
Compressed Natural Gas	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	4.9%
Electricity	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.7%
Delivered Energy	3.977	3.966	3.954	3.949	3.944	3.940	3.939	3.939	3.942	3.947	3.954	3.961	3.973	0.1%
Electricity Related Losses	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.6%
Total	3.984	3.972	3.960	3.955	3.950	3.947	3.945	3.946	3.948	3.954	3.961	3.968	3.980	0.1%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.242	0.242	0.243	0.243	0.244	0.244	0.246	0.246	0.246	0.247	0.248	0.248	0.249	0.2%
E85 8/	0.264	0.274	0.297	0.315	0.330	0.340	0.343	0.357	0.361	0.367	0.371	0.372	0.378	34.3%
Motor Gasoline 2/	2.263	2.226	2.174	2.134	2.097	2.066	2.043	2.012	1.993	1.973	1.956	1.945	1.930	-1.4%
Jet Fuel 9/	0.329	0.333	0.337	0.342	0.346	0.350	0.353	0.357	0.361	0.365	0.368	0.372	0.375	1.5%
Kerosene	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	-0.5%
Distillate Fuel Oil	1.330	1.339	1.349	1.360	1.371	1.383	1.395	1.409	1.423	1.438	1.452	1.466	1.482	0.9%
Residual Fuel Oil	0.022	0.022	0.021	0.021	0.021	0.021	0.020	0.020	0.020	0.020	0.020	0.020	0.019	-1.5%
Petrochemical Feedstocks	0.133	0.131	0.129	0.127	0.125	0.124	0.123	0.121	0.120	0.119	0.118	0.116	0.115	-0.8%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.8%
Other Petroleum 12/	0.618	0.613	0.609	0.608	0.608	0.611	0.608	0.611	0.617	0.623	0.624	0.627	0.634	-0.1%
Liquid Fuels and Other Petroleum Subtotal	5.212	5.190	5.170	5.160	5.152	5.149	5.142	5.144	5.151	5.161	5.167	5.175	5.192	0.0%
Natural Gas	3.376	3.381	3.392	3.407	3.409	3.408	3.401	3.389	3.384	3.377	3.371	3.352	3.341	0.3%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	-2.2%
Pipeline Natural Gas	0.062	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	-0.1%
Natural Gas Subtotal	3.449	3.454	3.465	3.480	3.483	3.482	3.474	3.462	3.457	3.450	3.444	3.425	3.414	0.3%
Metallurgical Coal	0.237	0.235	0.233	0.231	0.229	0.226	0.223	0.220	0.216	0.213	0.209	0.204	0.199	-1.5%
Other Coal	0.348	0.348	0.347	0.347	0.347	0.346	0.345	0.345	0.344	0.344	0.343	0.342	0.342	-0.2%
Coal-to-Liquids Heat and Power	0.035	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-27.0%
Net Coal Coke Imports	0.154	0.154	0.154	0.155	0.154	0.154	0.153	0.152	0.151	0.149	0.147	0.144	0.142	-3.2%
Coal Subtotal	0.774	0.744	0.735	0.733	0.730	0.726	0.721	0.717	0.711	0.706	0.699	0.691	0.683	-1.4%
Biofuels Heat and Coproducts	0.321	0.350	0.367	0.430	0.585	0.579	0.574	0.592	0.611	0.603	0.623	0.611	0.624	9.9%
Renewable Energy 13/	0.276	0.276	0.277	0.277	0.278	0.278	0.279	0.279	0.279	0.279	0.280	0.279	0.280	0.2%
Electricity	2.199	2.211	2.220	2.230	2.240	2.251	2.264	2.276	2.291	2.305	2.319	2.329	2.340	0.7%
Delivered Energy	12.232	12.225	12.234	12.310	12.467	12.465	12.453	12.469	12.501	12.505	12.531	12.510	12.533	0.3%
Electricity Related Losses	5.430	5.411	5.388	5.398	5.428	5.433	5.472	5.489	5.479	5.466	5.478	5.472	5.495	0.7%
Total	17.662	17.636	17.622	17.707	17.896	17.898	17.926	17.958	17.979	17.971	18.009	17.981	18.028	0.4%

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power 14/														
Distillate Fuel Oil	0.028	0.028	0.029	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.030	0.030	0.029	-0.2%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-55.2%
Liquid Fuels and Other Petroleum Subtotal	0.028	0.028	0.029	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.030	0.030	0.029	-0.2%
Natural Gas	0.447	0.397	0.402	0.406	0.420	0.407	0.420	0.422	0.433	0.442	0.452	0.455	0.490	2.7%
Steam Coal	5.112	5.125	5.086	5.089	5.117	5.116	5.133	5.138	5.130	5.121	5.136	5.135	5.225	0.4%
Nuclear Power	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.510	-0.2%
Renewable Energy 15/	0.453	0.483	0.501	0.513	0.511	0.542	0.565	0.586	0.587	0.588	0.590	0.592	0.575	7.7%
Electricity Imports	-0.004	-0.005	-0.004	-0.004	-0.004	-0.004	-0.005	-0.004	-0.004	-0.004	-0.004	-0.006	-0.006	1.0%
Total 16/	7.629	7.622	7.608	7.628	7.668	7.684	7.736	7.764	7.769	7.771	7.797	7.800	7.835	0.7%
Total Energy Consumption														
Liquefied Petroleum Gases	0.242	0.242	0.243	0.243	0.244	0.244	0.246	0.246	0.246	0.247	0.248	0.248	0.249	0.2%
E85 8/	0.264	0.274	0.297	0.315	0.330	0.340	0.343	0.357	0.361	0.367	0.371	0.372	0.378	34.3%
Motor Gasoline 2/	2.263	2.226	2.174	2.134	2.097	2.066	2.043	2.012	1.993	1.973	1.956	1.945	1.930	-1.4%
Jet Fuel 9/	0.329	0.333	0.337	0.342	0.346	0.350	0.353	0.357	0.361	0.365	0.368	0.372	0.375	1.5%
Kerosene	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	-0.5%
Distillate Fuel Oil	1.358	1.366	1.378	1.390	1.400	1.412	1.425	1.438	1.453	1.468	1.482	1.496	1.511	0.9%
Residual Fuel Oil	0.022	0.022	0.021	0.021	0.021	0.021	0.020	0.020	0.020	0.020	0.020	0.020	0.019	-1.6%
Petrochemical Feedstocks	0.133	0.131	0.129	0.127	0.125	0.124	0.123	0.121	0.120	0.119	0.118	0.116	0.115	-0.8%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.8%
Other Petroleum 12/	0.618	0.613	0.609	0.608	0.608	0.611	0.608	0.611	0.617	0.623	0.624	0.627	0.634	-0.1%
Liquid Fuels and Other Petroleum Subtotal	5.240	5.218	5.199	5.189	5.182	5.178	5.171	5.174	5.181	5.191	5.197	5.205	5.221	0.0%
Natural Gas	3.822	3.778	3.794	3.813	3.829	3.816	3.820	3.810	3.817	3.819	3.822	3.807	3.831	0.6%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	-2.2%
Pipeline Natural Gas	0.062	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	-0.1%
Natural Gas Subtotal	3.896	3.851	3.867	3.886	3.903	3.889	3.894	3.884	3.890	3.892	3.896	3.880	3.904	0.6%
Metallurgical Coal	0.237	0.235	0.233	0.231	0.229	0.226	0.223	0.220	0.216	0.213	0.209	0.204	0.199	-1.5%
Other Coal	5.460	5.473	5.434	5.436	5.464	5.462	5.478	5.483	5.475	5.465	5.479	5.477	5.566	0.4%
Coal-to-Liquids Heat and Power	0.035	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-27.0%
Net Coal Coke Imports	0.154	0.154	0.154	0.155	0.154	0.154	0.153	0.152	0.151	0.149	0.147	0.144	0.142	-3.2%
Coal Subtotal	5.886	5.869	5.821	5.822	5.847	5.842	5.854	5.855	5.842	5.827	5.835	5.826	5.907	0.2%
Nuclear Power	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.510	-0.2%
Biofuels Heat and Coproducts	0.321	0.350	0.367	0.430	0.585	0.579	0.574	0.592	0.611	0.603	0.623	0.611	0.624	9.9%
Renewable Energy 17/	0.729	0.759	0.778	0.791	0.789	0.820	0.843	0.865	0.866	0.868	0.870	0.872	0.855	3.7%
Electricity Imports	-0.004	-0.005	-0.004	-0.004	-0.004	-0.004	-0.005	-0.004	-0.004	-0.004	-0.004	-0.006	-0.006	1.0%
Total	17.662	17.636	17.622	17.707	17.896	17.898	17.926	17.958	17.979	17.971	18.009	17.981	18.028	0.4%
Energy Use & Related Statistics														
Delivered Energy Use	12.232	12.225	12.234	12.310	12.467	12.465	12.453	12.469	12.501	12.505	12.531	12.510	12.533	0.3%
Total Energy Use	17.662	17.636	17.622	17.707	17.896	17.898	17.926	17.958	17.979	17.971	18.009	17.981	18.028	0.4%
Population (millions)	48.327	48.411	48.486	48.552	48.611	48.662	48.706	48.743	48.778	48.812	48.845	48.876	48.906	0.2%
Carbon Dioxide Emissions (million metric tons)	1087.88	1082.68	1076.99	1076.29	1079.00	1077.57	1078.84	1077.99	1077.59	1076.96	1078.17	1076.85	1086.94	0.1%

Table 3. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East North Central - 03

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007).

2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.079	0.070	0.077	0.078	0.072	0.071	0.071	0.070	0.070	0.069	0.069	0.069	0.068
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Distillate Fuel Oil	0.021	0.019	0.022	0.023	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Liquid Fuels and Other Petroleum Subtotal	0.101	0.089	0.100	0.102	0.094	0.092	0.092	0.092	0.092	0.091	0.091	0.091	0.090
Natural Gas	0.440	0.399	0.437	0.452	0.448	0.443	0.445	0.449	0.449	0.451	0.453	0.455	0.454
Coal	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/	0.037	0.033	0.040	0.043	0.039	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.034
Electricity	0.342	0.341	0.356	0.353	0.359	0.363	0.364	0.366	0.357	0.356	0.356	0.358	0.359
Delivered Energy	0.922	0.863	0.934	0.952	0.941	0.936	0.939	0.944	0.935	0.935	0.936	0.940	0.939
Electricity Related Losses	0.836	0.823	0.839	0.837	0.881	0.871	0.866	0.869	0.861	0.859	0.855	0.858	0.861
Total	1.757	1.686	1.773	1.789	1.822	1.808	1.805	1.814	1.796	1.794	1.791	1.798	1.800
Commercial													
Liquefied Petroleum Gases	0.012	0.012	0.013	0.013	0.010	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Motor Gasoline 2/	0.008	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Distillate Fuel Oil	0.018	0.017	0.017	0.017	0.015	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017
Residual Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003
Liquid Fuels and Other Petroleum Subtotal	0.041	0.040	0.042	0.041	0.037	0.039	0.040	0.041	0.041	0.041	0.041	0.041	0.042
Natural Gas	0.287	0.270	0.289	0.295	0.280	0.281	0.287	0.292	0.296	0.301	0.305	0.308	0.311
Coal	0.010	0.010	0.008	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Renewable Energy 3/	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Electricity	0.321	0.326	0.334	0.332	0.339	0.342	0.345	0.350	0.356	0.362	0.368	0.374	0.380
Delivered Energy	0.666	0.654	0.681	0.686	0.674	0.680	0.689	0.700	0.710	0.721	0.731	0.741	0.750
Electricity Related Losses	0.786	0.787	0.788	0.786	0.833	0.820	0.823	0.832	0.859	0.874	0.883	0.896	0.911
Total	1.452	1.441	1.469	1.472	1.507	1.500	1.512	1.532	1.569	1.594	1.614	1.637	1.661
Industrial 4/													
Liquefied Petroleum Gases	0.139	0.139	0.142	0.143	0.140	0.138	0.136	0.134	0.131	0.129	0.127	0.125	0.123
Motor Gasoline 2/	0.049	0.048	0.048	0.049	0.047	0.048	0.048	0.048	0.047	0.047	0.047	0.047	0.047
Distillate Fuel Oil	0.189	0.191	0.198	0.204	0.195	0.196	0.196	0.193	0.188	0.187	0.187	0.186	0.185
Residual Fuel Oil	0.014	0.014	0.015	0.014	0.014	0.013	0.012	0.012	0.011	0.011	0.013	0.013	0.012
Petrochemical Feedstocks	0.030	0.030	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.030	0.029	0.029
Other Petroleum 5/	0.261	0.250	0.242	0.246	0.207	0.238	0.244	0.243	0.245	0.244	0.243	0.242	0.241
Liquid Fuels and Other Petroleum Subtotal	0.682	0.672	0.671	0.684	0.630	0.662	0.666	0.659	0.652	0.648	0.647	0.643	0.637
Natural Gas	0.422	0.454	0.470	0.497	0.551	0.585	0.606	0.604	0.594	0.602	0.618	0.627	0.638
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.029	0.029	0.030	0.029	0.029	0.030	0.030	0.029	0.029	0.028	0.028	0.028	0.028
Natural Gas Subtotal	0.450	0.483	0.500	0.527	0.580	0.614	0.636	0.633	0.622	0.630	0.646	0.655	0.665
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Industrial Coal	0.146	0.146	0.154	0.162	0.150	0.147	0.144	0.140	0.135	0.134	0.133	0.133	0.132
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.064	0.081	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.146	0.146	0.154	0.162	0.150	0.147	0.190	0.186	0.182	0.181	0.197	0.214	0.231
Biofuels Heat and Coproducts	0.182	0.223	0.300	0.458	0.319	0.405	0.442	0.442	0.478	0.508	0.548	0.567	0.603
Renewable Energy 7/	0.072	0.071	0.072	0.073	0.070	0.071	0.072	0.073	0.073	0.073	0.074	0.075	0.075
Electricity	0.279	0.289	0.294	0.304	0.280	0.290	0.296	0.297	0.296	0.297	0.300	0.302	0.303
Delivered Energy	1.812	1.885	1.993	2.208	2.030	2.189	2.302	2.290	2.303	2.337	2.412	2.456	2.513
Electricity Related Losses	0.682	0.697	0.693	0.721	0.687	0.695	0.704	0.705	0.715	0.718	0.720	0.723	0.727
Total	2.493	2.582	2.685	2.928	2.717	2.884	3.007	2.995	3.018	3.055	3.132	3.178	3.241

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.097	0.107
Motor Gasoline 2/	1.266	1.279	1.288	1.288	1.292	1.299	1.304	1.313	1.320	1.325	1.229	1.218	1.205
Jet Fuel 9/	0.165	0.132	0.134	0.137	0.140	0.143	0.147	0.150	0.151	0.153	0.155	0.158	0.160
Distillate Fuel Oil 10/	0.530	0.547	0.555	0.553	0.559	0.575	0.591	0.601	0.607	0.612	0.619	0.626	0.631
Residual Fuel Oil	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.014	0.013	0.013	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Liquid Fuels and Other Petroleum Subtotal	1.979	1.975	1.993	1.995	2.007	2.034	2.058	2.080	2.095	2.107	2.105	2.114	2.118
Pipeline Fuel Natural Gas	0.091	0.090	0.099	0.098	0.102	0.103	0.103	0.103	0.101	0.101	0.101	0.101	0.100
Compressed Natural Gas	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Delivered Energy	2.072	2.067	2.094	2.096	2.112	2.140	2.165	2.188	2.202	2.213	2.212	2.221	2.224
Electricity Related Losses	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
Total	2.072	2.068	2.095	2.096	2.113	2.140	2.166	2.188	2.202	2.214	2.212	2.221	2.224
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.230	0.222	0.233	0.235	0.224	0.223	0.221	0.218	0.215	0.212	0.210	0.208	0.205
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.097	0.107
Motor Gasoline 2/	1.322	1.335	1.344	1.345	1.348	1.355	1.361	1.369	1.376	1.380	1.284	1.274	1.260
Jet Fuel 9/	0.165	0.132	0.134	0.137	0.140	0.143	0.147	0.150	0.151	0.153	0.155	0.158	0.160
Kerosene	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
Distillate Fuel Oil	0.759	0.773	0.791	0.797	0.791	0.807	0.824	0.831	0.833	0.837	0.843	0.850	0.853
Residual Fuel Oil	0.019	0.019	0.020	0.020	0.019	0.018	0.017	0.017	0.016	0.016	0.018	0.018	0.017
Petrochemical Feedstocks	0.030	0.030	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.030	0.029	0.029
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.275	0.263	0.255	0.258	0.219	0.251	0.256	0.255	0.257	0.257	0.256	0.255	0.253
Liquid Fuels and Other Petroleum Subtotal	2.803	2.777	2.805	2.822	2.769	2.827	2.856	2.872	2.879	2.887	2.884	2.889	2.886
Natural Gas	1.150	1.125	1.198	1.247	1.282	1.312	1.342	1.349	1.344	1.359	1.381	1.396	1.409
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.029	0.029	0.030	0.029	0.029	0.030	0.030	0.029	0.029	0.028	0.028	0.028	0.028
Pipeline Natural Gas	0.091	0.090	0.099	0.098	0.102	0.103	0.103	0.103	0.101	0.101	0.101	0.101	0.100
Natural Gas Subtotal	1.270	1.244	1.327	1.374	1.414	1.445	1.475	1.481	1.474	1.488	1.510	1.525	1.536
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.158	0.157	0.164	0.173	0.162	0.159	0.155	0.151	0.147	0.145	0.144	0.144	0.143
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.064	0.081	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.158	0.157	0.164	0.173	0.162	0.159	0.201	0.197	0.193	0.192	0.208	0.225	0.242
Biofuels Heat and Coproducts	0.182	0.223	0.300	0.458	0.319	0.405	0.442	0.442	0.478	0.508	0.548	0.567	0.603
Renewable Energy 13/	0.117	0.112	0.120	0.124	0.116	0.116	0.116	0.117	0.116	0.117	0.117	0.117	0.117
Electricity	0.942	0.957	0.985	0.990	0.978	0.994	1.005	1.013	1.009	1.015	1.024	1.035	1.042
Delivered Energy	5.471	5.469	5.701	5.941	5.757	5.945	6.096	6.122	6.149	6.206	6.291	6.358	6.426
Electricity Related Losses	2.304	2.307	2.321	2.345	2.401	2.387	2.394	2.407	2.435	2.451	2.459	2.477	2.501
Total	7.775	7.777	8.022	8.286	8.158	8.332	8.490	8.529	8.585	8.656	8.750	8.835	8.926

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power 14/													
Distillate Fuel Oil	0.015	0.005	0.017	0.017	0.018	0.018	0.016	0.016	0.016	0.015	0.015	0.015	0.015
Residual Fuel Oil	0.010	0.004	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.025	0.009	0.029	0.018	0.018	0.019	0.016	0.016	0.016	0.015	0.015	0.015	0.015
Natural Gas	0.106	0.110	0.038	0.052	0.071	0.076	0.076	0.080	0.078	0.081	0.082	0.084	0.085
Steam Coal	2.486	2.452	2.502	2.497	2.517	2.517	2.540	2.551	2.568	2.592	2.618	2.635	2.662
Nuclear Power	0.480	0.478	0.481	0.480	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477
Renewable Energy 15/	0.114	0.180	0.208	0.240	0.254	0.263	0.262	0.263	0.268	0.267	0.269	0.274	0.274
Electricity Imports	0.030	0.030	0.043	0.043	0.037	0.025	0.023	0.028	0.032	0.029	0.018	0.021	0.025
Total 16/	3.246	3.264	3.305	3.335	3.379	3.381	3.399	3.420	3.444	3.466	3.483	3.511	3.543
Total Energy Consumption													
Liquefied Petroleum Gases	0.230	0.222	0.233	0.235	0.224	0.223	0.221	0.218	0.215	0.212	0.210	0.208	0.205
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.097	0.107
Motor Gasoline 2/	1.322	1.335	1.344	1.345	1.348	1.355	1.361	1.369	1.376	1.380	1.284	1.274	1.260
Jet Fuel 9/	0.165	0.132	0.134	0.137	0.140	0.143	0.147	0.150	0.151	0.153	0.155	0.158	0.160
Kerosene	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
Distillate Fuel Oil	0.774	0.778	0.808	0.814	0.809	0.826	0.839	0.847	0.849	0.852	0.858	0.865	0.868
Residual Fuel Oil	0.029	0.023	0.032	0.020	0.019	0.018	0.017	0.017	0.016	0.016	0.018	0.018	0.017
Petrochemical Feedstocks	0.030	0.030	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.030	0.029	0.029
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.275	0.263	0.255	0.258	0.219	0.251	0.256	0.255	0.257	0.257	0.256	0.255	0.253
Liquid Fuels and Other Petroleum Subtotal	2.828	2.786	2.834	2.839	2.787	2.846	2.872	2.888	2.896	2.902	2.899	2.904	2.901
Natural Gas	1.256	1.235	1.236	1.298	1.353	1.388	1.418	1.428	1.422	1.440	1.463	1.481	1.494

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.029	0.029	0.030	0.029	0.029	0.030	0.030	0.029	0.029	0.028	0.028	0.028	0.028
Pipeline Natural Gas	0.091	0.090	0.099	0.098	0.102	0.103	0.103	0.103	0.101	0.101	0.101	0.101	0.100
Natural Gas Subtotal	1.376	1.354	1.366	1.426	1.485	1.521	1.551	1.560	1.552	1.569	1.592	1.609	1.621
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	2.643	2.609	2.665	2.670	2.678	2.676	2.695	2.702	2.715	2.737	2.762	2.779	2.806
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.064	0.081	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	2.643	2.609	2.665	2.671	2.678	2.676	2.742	2.749	2.761	2.783	2.826	2.860	2.904
Nuclear Power	0.480	0.478	0.481	0.480	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477
Biofuels Heat and Coproducts	0.182	0.223	0.300	0.458	0.319	0.405	0.442	0.442	0.478	0.508	0.548	0.567	0.603
Renewable Energy 17/	0.231	0.292	0.328	0.363	0.370	0.379	0.379	0.380	0.384	0.384	0.386	0.391	0.391
Electricity Imports	0.030	0.030	0.043	0.043	0.037	0.025	0.023	0.028	0.032	0.029	0.018	0.021	0.025
Total	7.775	7.777	8.022	8.286	8.158	8.332	8.490	8.529	8.585	8.656	8.750	8.835	8.926
Energy Use & Related Statistics													
Delivered Energy Use	5.471	5.469	5.701	5.941	5.757	5.945	6.096	6.122	6.149	6.206	6.291	6.358	6.426
Total Energy Use	7.775	7.777	8.022	8.286	8.158	8.332	8.490	8.529	8.585	8.656	8.750	8.835	8.926
Population (millions)	19.939	20.054	20.162	20.269	20.373	20.476	20.578	20.677	20.775	20.870	20.962	21.050	21.136
Carbon Dioxide Emissions (million metric tons)	511.17	502.71	511.12	514.05	514.08	518.65	527.91	530.47	532.16	535.45	536.95	541.24	545.71

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.068	0.067	0.067	0.067	0.066	0.066	0.066	0.065	0.065	0.064	0.064	0.064	0.064	-0.4%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.2%
Distillate Fuel Oil	0.021	0.020	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.019	0.018	0.018	-0.1%
Liquid Fuels and Other Petroleum Subtotal	0.089	0.089	0.088	0.087	0.087	0.086	0.086	0.085	0.085	0.084	0.084	0.083	0.083	-0.3%
Natural Gas	0.454	0.454	0.456	0.456	0.456	0.455	0.455	0.452	0.451	0.449	0.448	0.445	0.443	0.4%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.1%
Renewable Energy 1/	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.032	-0.1%
Electricity	0.361	0.362	0.363	0.363	0.366	0.368	0.372	0.374	0.377	0.381	0.385	0.387	0.391	0.6%
Delivered Energy	0.939	0.940	0.943	0.942	0.943	0.944	0.947	0.945	0.947	0.948	0.951	0.949	0.949	0.4%
Electricity Related Losses	0.873	0.887	0.904	0.914	0.921	0.930	0.944	0.953	0.961	0.971	0.987	0.981	0.987	0.8%
Total	1.812	1.827	1.846	1.855	1.864	1.874	1.891	1.898	1.908	1.918	1.938	1.930	1.936	0.6%
Commercial														
Liquefied Petroleum Gases	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.3%
Motor Gasoline 2/	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.4%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0%
Distillate Fuel Oil	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.1%
Residual Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-0.4%
Liquid Fuels and Other Petroleum Subtotal	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.2%
Natural Gas	0.313	0.316	0.319	0.323	0.325	0.328	0.329	0.331	0.333	0.335	0.336	0.338	0.340	1.0%
Coal	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.0%
Renewable Energy 3/	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.0%
Electricity	0.385	0.391	0.396	0.402	0.407	0.413	0.419	0.424	0.430	0.436	0.441	0.447	0.452	1.4%
Delivered Energy	0.758	0.765	0.774	0.784	0.792	0.800	0.807	0.815	0.822	0.830	0.837	0.844	0.851	1.1%
Electricity Related Losses	0.932	0.957	0.986	1.010	1.026	1.044	1.064	1.081	1.096	1.111	1.130	1.131	1.142	1.6%
Total	1.690	1.722	1.760	1.794	1.819	1.844	1.871	1.896	1.918	1.940	1.967	1.975	1.993	1.4%
Industrial 4/														
Liquefied Petroleum Gases	0.121	0.118	0.116	0.115	0.114	0.112	0.111	0.110	0.109	0.108	0.107	0.105	0.104	-1.2%
Motor Gasoline 2/	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	-0.2%
Distillate Fuel Oil	0.183	0.182	0.180	0.179	0.177	0.176	0.175	0.175	0.175	0.175	0.174	0.174	0.174	-0.4%
Residual Fuel Oil	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.009	-1.8%
Petrochemical Feedstocks	0.029	0.028	0.028	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.025	0.025	0.025	-0.8%
Other Petroleum 5/	0.239	0.237	0.236	0.236	0.236	0.237	0.236	0.238	0.241	0.243	0.243	0.245	0.247	0.0%
Liquid Fuels and Other Petroleum Subtotal	0.630	0.622	0.616	0.613	0.610	0.608	0.605	0.605	0.606	0.607	0.605	0.604	0.605	-0.4%
Natural Gas	0.644	0.643	0.639	0.645	0.644	0.643	0.640	0.632	0.630	0.627	0.625	0.622	0.619	1.3%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.028	0.027	0.026	0.025	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	-0.1%
Natural Gas Subtotal	0.672	0.671	0.665	0.670	0.670	0.669	0.666	0.659	0.657	0.655	0.652	0.650	0.647	1.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Industrial Coal	0.131	0.131	0.131	0.131	0.131	0.130	0.130	0.130	0.129	0.129	0.129	0.129	0.128	-0.5%
Coal-to-Liquids Heat and Power	0.146	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	48.0%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.277	0.288	0.289	0.289	0.289	0.289	0.288	0.288	0.288	0.287	0.287	0.287	0.286	2.9%
Biofuels Heat and Coproducts	0.636	0.674	0.693	0.774	0.870	0.915	0.979	1.026	1.049	1.057	1.037	1.043	1.029	6.6%
Renewable Energy 7/	0.076	0.076	0.076	0.077	0.077	0.078	0.078	0.078	0.079	0.079	0.079	0.080	0.080	0.5%
Electricity	0.303	0.303	0.301	0.301	0.299	0.298	0.297	0.295	0.294	0.293	0.291	0.290	0.288	0.0%
Delivered Energy	2.593	2.634	2.641	2.724	2.815	2.856	2.913	2.951	2.973	2.978	2.953	2.953	2.936	1.9%
Electricity Related Losses	0.734	0.742	0.750	0.757	0.754	0.753	0.754	0.752	0.750	0.748	0.747	0.734	0.728	0.2%
Total	3.328	3.375	3.392	3.481	3.569	3.609	3.667	3.703	3.723	3.726	3.700	3.687	3.664	1.5%

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.4%
E85 8/	0.116	0.121	0.131	0.138	0.146	0.151	0.154	0.160	0.162	0.165	0.167	0.169	0.171	35.5%
Motor Gasoline 2/	1.189	1.173	1.150	1.131	1.114	1.100	1.089	1.074	1.065	1.057	1.049	1.044	1.038	-0.9%
Jet Fuel 9/	0.162	0.164	0.166	0.168	0.170	0.172	0.174	0.176	0.178	0.180	0.181	0.183	0.185	1.4%
Distillate Fuel Oil 10/	0.636	0.642	0.650	0.657	0.664	0.672	0.679	0.687	0.696	0.705	0.713	0.722	0.731	1.2%
Residual Fuel Oil	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-0.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.6%
Other Petroleum 11/	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	-0.2%
Liquid Fuels and Other Petroleum Subtotal	2.119	2.117	2.112	2.111	2.110	2.110	2.112	2.113	2.117	2.122	2.127	2.133	2.141	0.3%
Pipeline Fuel Natural Gas	0.099	0.098	0.099	0.101	0.102	0.102	0.103	0.103	0.103	0.102	0.103	0.102	0.102	0.5%
Compressed Natural Gas	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	6.5%
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.2%
Delivered Energy	2.225	2.222	2.218	2.219	2.219	2.220	2.222	2.224	2.228	2.232	2.238	2.244	2.251	0.4%
Electricity Related Losses	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0%
Total	2.226	2.223	2.219	2.220	2.220	2.220	2.223	2.225	2.228	2.233	2.239	2.244	2.252	0.4%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.202	0.199	0.197	0.195	0.194	0.192	0.191	0.189	0.188	0.186	0.185	0.183	0.182	-0.8%
E85 8/	0.116	0.121	0.131	0.138	0.146	0.151	0.154	0.160	0.162	0.165	0.167	0.169	0.171	35.5%
Motor Gasoline 2/	1.244	1.227	1.204	1.186	1.169	1.154	1.143	1.129	1.120	1.111	1.104	1.098	1.092	-0.8%
Jet Fuel 9/	0.162	0.164	0.166	0.168	0.170	0.172	0.174	0.176	0.178	0.180	0.181	0.183	0.185	1.4%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.1%
Distillate Fuel Oil	0.858	0.862	0.867	0.873	0.878	0.884	0.891	0.899	0.907	0.915	0.923	0.931	0.940	0.8%
Residual Fuel Oil	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.014	0.014	0.014	-1.3%
Petrochemical Feedstocks	0.029	0.028	0.028	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.025	0.025	0.025	-0.8%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.6%
Other Petroleum 12/	0.252	0.250	0.248	0.248	0.248	0.249	0.249	0.251	0.253	0.255	0.256	0.257	0.260	-0.1%
Liquid Fuels and Other Petroleum Subtotal	2.880	2.869	2.858	2.853	2.849	2.846	2.844	2.845	2.850	2.855	2.858	2.862	2.871	0.1%
Natural Gas	1.418	1.420	1.421	1.430	1.432	1.432	1.431	1.423	1.421	1.419	1.417	1.413	1.410	0.9%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.028	0.027	0.026	0.025	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	-0.1%
Pipeline Natural Gas	0.099	0.098	0.099	0.101	0.102	0.102	0.103	0.103	0.103	0.102	0.103	0.102	0.102	0.5%
Natural Gas Subtotal	1.545	1.546	1.546	1.556	1.560	1.560	1.560	1.552	1.551	1.549	1.548	1.543	1.539	0.9%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.143	0.142	0.142	0.142	0.142	0.142	0.141	0.141	0.141	0.140	0.140	0.140	0.139	-0.5%
Coal-to-Liquids Heat and Power	0.146	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	48.0%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.288	0.300	0.300	0.300	0.300	0.300	0.299	0.299	0.299	0.298	0.298	0.298	0.297	2.7%
Biofuels Heat and Coproducts	0.636	0.674	0.693	0.774	0.870	0.915	0.979	1.026	1.049	1.057	1.037	1.043	1.029	6.6%
Renewable Energy 13/	0.117	0.118	0.118	0.118	0.118	0.119	0.119	0.119	0.119	0.120	0.120	0.120	0.120	0.3%
Electricity	1.049	1.056	1.061	1.067	1.073	1.079	1.087	1.094	1.102	1.110	1.118	1.124	1.131	0.7%
Delivered Energy	6.516	6.561	6.576	6.669	6.770	6.819	6.889	6.935	6.970	6.988	6.979	6.989	6.988	1.0%
Electricity Related Losses	2.540	2.586	2.640	2.681	2.701	2.727	2.763	2.786	2.808	2.829	2.865	2.847	2.858	0.9%
Total	9.055	9.148	9.217	9.350	9.471	9.547	9.652	9.721	9.778	9.817	9.844	9.836	9.845	1.0%

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power 14/														
Distillate Fuel Oil	0.015	0.016	0.018	0.018	0.020	0.021	0.022	0.022	0.022	0.023	0.023	0.023	0.023	6.1%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-15.0%
Liquid Fuels and Other Petroleum Subtotal	0.015	0.016	0.018	0.018	0.020	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	3.8%
Natural Gas	0.083	0.075	0.084	0.093	0.083	0.076	0.077	0.074	0.070	0.071	0.086	0.070	0.072	-1.8%
Steam Coal	2.705	2.759	2.813	2.852	2.887	2.924	2.964	2.997	3.030	3.057	3.083	3.079	3.098	1.0%
Nuclear Power	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.0%
Renewable Energy 15/	0.280	0.283	0.283	0.281	0.279	0.279	0.279	0.279	0.280	0.281	0.283	0.283	0.277	1.8%
Electricity Imports	0.024	0.028	0.022	0.023	0.023	0.025	0.027	0.026	0.026	0.026	0.026	0.035	0.037	1.0%
Total 16/	3.589	3.642	3.701	3.748	3.774	3.807	3.850	3.880	3.910	3.939	3.983	3.971	3.988	0.8%
Total Energy Consumption														
Liquefied Petroleum Gases	0.202	0.199	0.197	0.195	0.194	0.192	0.191	0.189	0.188	0.186	0.185	0.183	0.182	-0.8%
E85 8/	0.116	0.121	0.131	0.138	0.146	0.151	0.154	0.160	0.162	0.165	0.167	0.169	0.171	35.5%
Motor Gasoline 2/	1.244	1.227	1.204	1.186	1.169	1.154	1.143	1.129	1.120	1.111	1.104	1.098	1.092	-0.8%
Jet Fuel 9/	0.162	0.164	0.166	0.168	0.170	0.172	0.174	0.176	0.178	0.180	0.181	0.183	0.185	1.4%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.1%
Distillate Fuel Oil	0.872	0.878	0.885	0.891	0.898	0.906	0.913	0.921	0.929	0.938	0.946	0.953	0.962	0.9%
Residual Fuel Oil	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.014	0.014	0.014	-2.0%
Petrochemical Feedstocks	0.029	0.028	0.028	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.025	0.025	0.025	-0.8%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.6%
Other Petroleum 12/	0.252	0.250	0.248	0.248	0.248	0.249	0.249	0.251	0.253	0.255	0.256	0.257	0.260	-0.1%
Liquid Fuels and Other Petroleum Subtotal	2.895	2.885	2.876	2.871	2.869	2.868	2.866	2.868	2.872	2.877	2.881	2.885	2.894	0.2%
Natural Gas	1.501	1.495	1.505	1.523	1.515	1.508	1.508	1.496	1.491	1.490	1.503	1.482	1.481	0.8%

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.028	0.027	0.026	0.025	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	-0.1%
Pipeline Natural Gas	0.099	0.098	0.099	0.101	0.102	0.102	0.103	0.103	0.103	0.102	0.103	0.102	0.102	0.5%
Natural Gas Subtotal	1.628	1.620	1.630	1.649	1.643	1.637	1.637	1.626	1.621	1.620	1.634	1.612	1.611	0.7%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	2.848	2.901	2.955	2.993	3.029	3.066	3.105	3.138	3.170	3.197	3.223	3.219	3.237	0.9%
Coal-to-Liquids Heat and Power	0.146	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	48.0%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	2.994	3.058	3.113	3.152	3.187	3.224	3.264	3.296	3.328	3.355	3.381	3.377	3.396	1.1%
Nuclear Power	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.0%
Biofuels Heat and Coproducts	0.636	0.674	0.693	0.774	0.870	0.915	0.979	1.026	1.049	1.057	1.037	1.043	1.029	6.6%
Renewable Energy 17/	0.397	0.401	0.401	0.399	0.397	0.397	0.398	0.398	0.399	0.400	0.403	0.402	0.397	1.3%
Electricity Imports	0.024	0.028	0.022	0.023	0.023	0.025	0.027	0.026	0.026	0.026	0.026	0.035	0.037	1.0%
Total	9.055	9.148	9.217	9.350	9.471	9.547	9.652	9.721	9.778	9.817	9.844	9.836	9.845	1.0%
Energy Use & Related Statistics														
Delivered Energy Use	6.516	6.561	6.576	6.669	6.770	6.819	6.889	6.935	6.970	6.988	6.979	6.989	6.988	1.0%
Total Energy Use	9.055	9.148	9.217	9.350	9.471	9.547	9.652	9.721	9.778	9.817	9.844	9.836	9.845	1.0%
Population (millions)	21.217	21.295	21.369	21.439	21.507	21.572	21.634	21.693	21.752	21.810	21.867	21.923	21.979	0.4%
Carbon Dioxide Emissions (million metric tons)	554.02	559.29	564.17	567.98	570.88	574.01	577.81	580.21	583.33	586.16	589.56	588.15	590.46	0.7%

Table 4. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West North Central - 04

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007).

2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.075	0.066	0.067	0.072	0.071	0.070	0.071	0.072	0.073	0.074	0.075	0.076	0.077
Kerosene	0.028	0.022	0.023	0.026	0.024	0.022	0.022	0.022	0.022	0.021	0.021	0.021	0.021
Distillate Fuel Oil	0.080	0.064	0.064	0.071	0.069	0.066	0.065	0.065	0.064	0.063	0.062	0.062	0.060
Liquid Fuels and Other Petroleum Subtotal	0.183	0.153	0.154	0.168	0.164	0.158	0.158	0.159	0.158	0.158	0.158	0.159	0.158
Natural Gas	0.474	0.410	0.440	0.459	0.473	0.464	0.470	0.477	0.482	0.487	0.493	0.499	0.502
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/	0.037	0.030	0.031	0.036	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.032	0.032
Electricity	1.168	1.159	1.194	1.213	1.236	1.264	1.287	1.315	1.305	1.322	1.343	1.368	1.388
Delivered Energy	1.863	1.754	1.821	1.878	1.910	1.921	1.950	1.985	1.979	2.001	2.027	2.059	2.081
Electricity Related Losses	2.258	2.155	2.093	2.064	2.060	2.126	2.117	2.126	2.101	2.122	2.151	2.191	2.221
Total	4.120	3.909	3.914	3.941	3.970	4.047	4.066	4.111	4.081	4.123	4.179	4.251	4.302
Commercial													
Liquefied Petroleum Gases	0.017	0.014	0.016	0.016	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.016
Motor Gasoline 2/	0.012	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Kerosene	0.004	0.003	0.003	0.003	0.002	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.003
Distillate Fuel Oil	0.076	0.074	0.075	0.076	0.064	0.065	0.067	0.068	0.070	0.071	0.072	0.073	0.074
Residual Fuel Oil	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Liquid Fuels and Other Petroleum Subtotal	0.116	0.109	0.111	0.112	0.100	0.102	0.104	0.105	0.107	0.108	0.109	0.111	0.112
Natural Gas	0.378	0.350	0.371	0.382	0.369	0.370	0.378	0.386	0.394	0.402	0.410	0.417	0.424
Coal	0.011	0.010	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Renewable Energy 3/	0.025	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Electricity	0.963	1.015	1.047	1.066	1.076	1.089	1.109	1.130	1.155	1.182	1.209	1.237	1.263
Delivered Energy	1.492	1.508	1.560	1.594	1.577	1.594	1.624	1.654	1.688	1.724	1.761	1.798	1.832
Electricity Related Losses	1.862	1.886	1.834	1.815	1.793	1.832	1.824	1.828	1.859	1.897	1.937	1.981	2.020
Total	3.354	3.394	3.394	3.408	3.370	3.426	3.448	3.483	3.547	3.621	3.699	3.779	3.852
Industrial 4/													
Liquefied Petroleum Gases	0.028	0.028	0.028	0.029	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.028	0.027
Motor Gasoline 2/	0.065	0.066	0.066	0.067	0.065	0.066	0.067	0.066	0.065	0.065	0.066	0.066	0.065
Distillate Fuel Oil	0.207	0.211	0.215	0.218	0.212	0.214	0.216	0.213	0.209	0.208	0.209	0.209	0.209
Residual Fuel Oil	0.133	0.137	0.149	0.154	0.152	0.144	0.134	0.130	0.122	0.119	0.119	0.120	0.119
Petrochemical Feedstocks	0.196	0.195	0.178	0.179	0.184	0.190	0.196	0.200	0.204	0.203	0.203	0.202	0.201
Other Petroleum 5/	0.404	0.414	0.394	0.398	0.364	0.364	0.364	0.359	0.346	0.343	0.344	0.345	0.343
Liquid Fuels and Other Petroleum Subtotal	1.032	1.051	1.031	1.045	1.005	1.006	1.005	0.996	0.973	0.966	0.967	0.970	0.964
Natural Gas	0.528	0.548	0.539	0.529	0.500	0.507	0.513	0.512	0.514	0.512	0.509	0.504	0.500
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.011	0.013	0.016	0.017	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Natural Gas Subtotal	0.540	0.561	0.555	0.546	0.519	0.526	0.533	0.532	0.534	0.532	0.529	0.524	0.521
Metallurgical Coal	0.062	0.062	0.063	0.066	0.065	0.064	0.064	0.062	0.061	0.061	0.062	0.063	0.064
Other Industrial Coal	0.277	0.269	0.276	0.289	0.283	0.279	0.276	0.270	0.265	0.264	0.263	0.263	0.262
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.016	-0.022	-0.010	-0.025	-0.011	-0.011	-0.010	-0.010	-0.010	-0.010	-0.010	-0.009	-0.009
Coal Subtotal	0.323	0.309	0.329	0.330	0.337	0.332	0.329	0.323	0.316	0.316	0.316	0.316	0.317
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.007	0.003	0.007	0.011	0.010	0.016	0.015	0.015	0.015	0.027
Renewable Energy 7/	0.495	0.511	0.531	0.542	0.494	0.507	0.517	0.521	0.522	0.527	0.534	0.540	0.546
Electricity	0.588	0.553	0.538	0.564	0.574	0.589	0.600	0.605	0.608	0.608	0.610	0.611	0.612
Delivered Energy	2.978	2.984	2.983	3.035	2.931	2.967	2.994	2.987	2.964	2.964	2.971	2.977	2.986
Electricity Related Losses	1.136	1.028	0.943	0.960	0.957	0.990	0.987	0.978	0.978	0.975	0.977	0.979	0.979
Total	4.113	4.012	3.926	3.995	3.888	3.957	3.981	3.965	3.948	3.940	3.947	3.957	3.965

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
E85 8/	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	3.495	3.530	3.555	3.514	3.495	3.490	3.488	3.512	3.536	3.556	3.576	3.594	3.610
Jet Fuel 9/	0.457	0.425	0.431	0.444	0.452	0.463	0.474	0.485	0.491	0.499	0.507	0.516	0.525
Distillate Fuel Oil 10/	1.066	1.100	1.115	1.119	1.137	1.173	1.211	1.237	1.257	1.275	1.296	1.319	1.338
Residual Fuel Oil	0.162	0.163	0.174	0.172	0.170	0.168	0.166	0.167	0.167	0.168	0.169	0.169	0.170
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.033	0.032	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032
Liquid Fuels and Other Petroleum Subtotal	5.215	5.252	5.308	5.283	5.288	5.328	5.374	5.436	5.486	5.533	5.583	5.634	5.678
Pipeline Fuel Natural Gas	0.051	0.050	0.058	0.057	0.058	0.058	0.059	0.060	0.060	0.060	0.061	0.061	0.061
Compressed Natural Gas	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008
Electricity	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Delivered Energy	5.271	5.308	5.372	5.347	5.353	5.395	5.442	5.505	5.556	5.603	5.654	5.706	5.750
Electricity Related Losses	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total	5.277	5.314	5.377	5.353	5.358	5.400	5.447	5.510	5.561	5.608	5.659	5.711	5.755
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.122	0.111	0.114	0.120	0.117	0.116	0.118	0.118	0.118	0.119	0.120	0.122	0.122
E85 8/	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	3.571	3.608	3.632	3.592	3.572	3.567	3.566	3.590	3.613	3.634	3.653	3.672	3.688
Jet Fuel 9/	0.457	0.425	0.431	0.444	0.452	0.463	0.474	0.485	0.491	0.499	0.507	0.516	0.525
Kerosene	0.035	0.027	0.027	0.030	0.028	0.028	0.027	0.027	0.027	0.026	0.026	0.026	0.026
Distillate Fuel Oil	1.430	1.450	1.469	1.484	1.482	1.518	1.558	1.583	1.599	1.617	1.638	1.663	1.681
Residual Fuel Oil	0.302	0.306	0.329	0.332	0.328	0.317	0.306	0.303	0.295	0.293	0.294	0.295	0.295
Petrochemical Feedstocks	0.196	0.195	0.178	0.179	0.184	0.190	0.196	0.200	0.204	0.203	0.203	0.202	0.201
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.434	0.444	0.423	0.426	0.393	0.394	0.394	0.389	0.376	0.373	0.373	0.375	0.373
Liquid Fuels and Other Petroleum Subtotal	6.546	6.565	6.604	6.609	6.557	6.594	6.640	6.696	6.724	6.765	6.817	6.873	6.912
Natural Gas	1.382	1.312	1.354	1.374	1.347	1.347	1.367	1.382	1.397	1.408	1.420	1.428	1.435
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.011	0.013	0.016	0.017	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Pipeline Natural Gas	0.051	0.050	0.058	0.057	0.058	0.058	0.059	0.060	0.060	0.060	0.061	0.061	0.061
Natural Gas Subtotal	1.444	1.374	1.428	1.449	1.423	1.424	1.446	1.462	1.477	1.489	1.500	1.510	1.516
Metallurgical Coal	0.062	0.062	0.063	0.066	0.065	0.064	0.064	0.062	0.061	0.061	0.062	0.063	0.064
Other Coal	0.289	0.280	0.284	0.300	0.293	0.289	0.286	0.280	0.275	0.274	0.273	0.273	0.272
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.016	-0.022	-0.010	-0.025	-0.011	-0.011	-0.010	-0.010	-0.010	-0.010	-0.010	-0.009	-0.009
Coal Subtotal	0.335	0.319	0.337	0.341	0.347	0.343	0.339	0.333	0.326	0.326	0.326	0.326	0.326
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.007	0.003	0.007	0.011	0.010	0.016	0.015	0.015	0.015	0.027
Renewable Energy 13/	0.556	0.565	0.586	0.602	0.553	0.565	0.574	0.578	0.579	0.584	0.590	0.597	0.602
Electricity	2.722	2.730	2.782	2.846	2.889	2.944	2.999	3.053	3.071	3.115	3.165	3.219	3.266
Delivered Energy	11.604	11.554	11.737	11.854	11.772	11.876	12.009	12.131	12.192	12.293	12.414	12.541	12.649
Electricity Related Losses	5.261	5.074	4.875	4.844	4.815	4.953	4.932	4.938	4.944	4.999	5.071	5.156	5.225
Total	16.865	16.628	16.612	16.697	16.587	16.830	16.941	17.069	17.136	17.292	17.484	17.697	17.874
Electric Power 14/													
Distillate Fuel Oil	0.076	0.033	0.041	0.043	0.043	0.044	0.044	0.048	0.049	0.048	0.049	0.052	0.051
Residual Fuel Oil	0.413	0.225	0.160	0.160	0.160	0.160	0.160	0.160	0.161	0.161	0.161	0.161	0.161
Liquid Fuels and Other Petroleum Subtotal	0.489	0.258	0.201	0.202	0.203	0.204	0.204	0.208	0.209	0.209	0.210	0.213	0.212
Natural Gas	0.908	1.041	0.817	0.858	0.814	0.857	0.863	0.905	0.889	0.872	0.860	0.848	0.819
Steam Coal	4.280	4.225	4.349	4.344	4.413	4.426	4.453	4.455	4.484	4.576	4.687	4.772	4.883
Nuclear Power	2.042	2.031	2.049	2.040	2.025	2.025	2.025	2.025	2.025	2.025	2.035	2.056	2.080
Renewable Energy 15/	0.226	0.211	0.205	0.209	0.212	0.349	0.349	0.360	0.369	0.395	0.407	0.449	0.460
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total 16/	7.983	7.804	7.657	7.690	7.704	7.898	7.932	7.991	8.014	8.114	8.235	8.376	8.490

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	0.122	0.111	0.114	0.120	0.117	0.116	0.118	0.118	0.118	0.119	0.120	0.122	0.122
E85 8/	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	3.571	3.608	3.632	3.592	3.572	3.567	3.566	3.590	3.613	3.634	3.653	3.672	3.688
Jet Fuel 9/	0.457	0.425	0.431	0.444	0.452	0.463	0.474	0.485	0.491	0.499	0.507	0.516	0.525
Kerosene	0.035	0.027	0.027	0.030	0.028	0.028	0.027	0.027	0.027	0.026	0.026	0.026	0.026
Distillate Fuel Oil	1.505	1.483	1.510	1.527	1.525	1.562	1.602	1.631	1.648	1.665	1.688	1.715	1.732
Residual Fuel Oil	0.715	0.531	0.488	0.492	0.488	0.477	0.466	0.463	0.456	0.454	0.455	0.456	0.456
Petrochemical Feedstocks	0.196	0.195	0.178	0.179	0.184	0.190	0.196	0.200	0.204	0.203	0.203	0.202	0.201
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.434	0.444	0.423	0.426	0.393	0.394	0.394	0.389	0.376	0.373	0.373	0.375	0.373
Liquid Fuels and Other Petroleum Subtotal	7.035	6.824	6.805	6.811	6.760	6.798	6.844	6.904	6.933	6.974	7.027	7.086	7.123
Natural Gas	2.290	2.353	2.171	2.232	2.162	2.203	2.231	2.287	2.286	2.281	2.279	2.277	2.253
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.011	0.013	0.016	0.017	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Pipeline Natural Gas	0.051	0.050	0.058	0.057	0.058	0.058	0.059	0.060	0.060	0.060	0.061	0.061	0.061
Natural Gas Subtotal	2.352	2.416	2.244	2.306	2.238	2.281	2.310	2.367	2.366	2.361	2.360	2.358	2.335
Metallurgical Coal	0.062	0.062	0.063	0.066	0.065	0.064	0.064	0.062	0.061	0.061	0.062	0.063	0.064
Other Coal	4.569	4.504	4.633	4.643	4.706	4.715	4.739	4.735	4.759	4.850	4.960	5.045	5.155
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.016	-0.022	-0.010	-0.025	-0.011	-0.011	-0.010	-0.010	-0.010	-0.010	-0.010	-0.009	-0.009
Coal Subtotal	4.615	4.544	4.686	4.684	4.760	4.768	4.792	4.787	4.810	4.901	5.012	5.098	5.210
Nuclear Power	2.042	2.031	2.049	2.040	2.025	2.025	2.025	2.025	2.025	2.025	2.035	2.056	2.080
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.007	0.003	0.007	0.011	0.010	0.016	0.015	0.015	0.015	0.027
Renewable Energy 17/	0.783	0.776	0.791	0.811	0.765	0.913	0.922	0.938	0.948	0.979	0.997	1.046	1.062
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	16.865	16.628	16.612	16.697	16.587	16.830	16.941	17.069	17.136	17.292	17.484	17.697	17.874
Energy Use & Related Statistics													
Delivered Energy Use	11.604	11.554	11.737	11.854	11.772	11.876	12.009	12.131	12.192	12.293	12.414	12.541	12.649
Total Energy Use	16.865	16.628	16.612	16.697	16.587	16.830	16.941	17.069	17.136	17.292	17.484	17.697	17.874
Population (millions)	56.082	56.900	57.709	58.521	59.339	60.163	60.994	61.833	62.681	63.537	64.401	65.272	66.150
Carbon Dioxide Emissions (million metric tons)	1043.73	1021.41	1020.34	1021.14	1019.82	1022.40	1027.92	1034.60	1038.76	1049.25	1063.21	1075.60	1087.84

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.077	0.078	0.079	0.080	0.081	0.082	0.083	0.083	0.084	0.085	0.086	0.086	0.087	1.2%
Kerosene	0.020	0.020	0.020	0.019	0.019	0.019	0.018	0.018	0.017	0.017	0.017	0.016	0.016	-1.4%
Distillate Fuel Oil	0.059	0.058	0.057	0.055	0.054	0.053	0.052	0.050	0.049	0.048	0.047	0.046	0.045	-1.5%
Liquid Fuels and Other Petroleum Subtotal	0.157	0.156	0.156	0.155	0.154	0.153	0.153	0.151	0.151	0.150	0.150	0.148	0.148	-0.1%
Natural Gas	0.506	0.509	0.513	0.514	0.517	0.518	0.520	0.520	0.520	0.521	0.522	0.520	0.519	1.0%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.7%
Renewable Energy 1/	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.2%
Electricity	1.411	1.432	1.452	1.469	1.492	1.515	1.543	1.565	1.592	1.619	1.649	1.671	1.696	1.6%
Delivered Energy	2.107	2.131	2.154	2.171	2.195	2.219	2.249	2.269	2.296	2.322	2.353	2.371	2.395	1.3%
Electricity Related Losses	2.249	2.278	2.286	2.282	2.285	2.295	2.313	2.343	2.368	2.389	2.403	2.409	2.436	0.5%
Total	4.356	4.409	4.440	4.453	4.480	4.515	4.561	4.612	4.664	4.711	4.756	4.780	4.831	0.9%
Commercial														
Liquefied Petroleum Gases	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.7%
Motor Gasoline 2/	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.4%
Kerosene	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.7%
Distillate Fuel Oil	0.075	0.075	0.076	0.076	0.077	0.077	0.077	0.078	0.078	0.078	0.079	0.079	0.079	0.3%
Residual Fuel Oil	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.1%
Liquid Fuels and Other Petroleum Subtotal	0.113	0.113	0.114	0.114	0.115	0.115	0.116	0.116	0.117	0.117	0.118	0.118	0.118	0.3%
Natural Gas	0.430	0.436	0.442	0.449	0.455	0.461	0.467	0.472	0.479	0.484	0.490	0.496	0.501	1.5%
Coal	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	-0.3%
Renewable Energy 3/	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.0%
Electricity	1.288	1.315	1.342	1.370	1.398	1.425	1.453	1.480	1.507	1.534	1.561	1.588	1.614	2.0%
Delivered Energy	1.864	1.897	1.930	1.966	2.001	2.035	2.068	2.102	2.135	2.169	2.202	2.235	2.266	1.7%
Electricity Related Losses	2.055	2.091	2.112	2.129	2.141	2.159	2.177	2.216	2.242	2.264	2.275	2.290	2.317	0.9%
Total	3.919	3.988	4.043	4.095	4.142	4.194	4.246	4.317	4.377	4.433	4.477	4.524	4.583	1.3%
Industrial 4/														
Liquefied Petroleum Gases	0.027	0.026	0.026	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	-0.8%
Motor Gasoline 2/	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.066	0.066	0.067	0.067	0.067	0.067	0.1%
Distillate Fuel Oil	0.208	0.207	0.206	0.206	0.205	0.205	0.205	0.206	0.207	0.208	0.208	0.208	0.209	0.0%
Residual Fuel Oil	0.118	0.118	0.116	0.115	0.116	0.114	0.113	0.113	0.113	0.113	0.114	0.115	0.115	-0.7%
Petrochemical Feedstocks	0.200	0.198	0.196	0.194	0.193	0.192	0.191	0.191	0.190	0.190	0.189	0.189	0.188	-0.2%
Other Petroleum 5/	0.341	0.339	0.336	0.337	0.338	0.337	0.339	0.341	0.343	0.347	0.348	0.349	0.353	-0.7%
Liquid Fuels and Other Petroleum Subtotal	0.959	0.952	0.946	0.941	0.941	0.937	0.938	0.941	0.943	0.948	0.950	0.950	0.955	-0.4%
Natural Gas	0.498	0.496	0.498	0.500	0.500	0.499	0.498	0.498	0.497	0.497	0.496	0.494	0.492	-0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.021	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	1.7%
Natural Gas Subtotal	0.518	0.516	0.518	0.520	0.520	0.519	0.517	0.517	0.518	0.517	0.515	0.514	0.511	-0.4%
Metallurgical Coal	0.064	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.068	0.069	0.069	0.068	0.068	0.4%
Other Industrial Coal	0.261	0.261	0.261	0.260	0.260	0.260	0.259	0.259	0.259	0.259	0.258	0.258	0.258	-0.2%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	-0.009	-0.009	-0.009	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.007	-0.007	-0.007	-0.007	-4.7%
Coal Subtotal	0.317	0.317	0.318	0.318	0.319	0.319	0.319	0.320	0.320	0.320	0.320	0.319	0.319	0.1%
Biofuels Heat and Coproducts	0.027	0.027	0.132	0.157	0.163	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	33.2%
Renewable Energy 7/	0.552	0.558	0.564	0.571	0.577	0.583	0.590	0.598	0.605	0.612	0.617	0.623	0.629	0.9%
Electricity	0.611	0.609	0.608	0.608	0.608	0.608	0.608	0.609	0.610	0.612	0.611	0.610	0.611	0.4%
Delivered Energy	2.985	3.024	3.087	3.115	3.128	3.123	3.130	3.142	3.153	3.165	3.169	3.173	3.181	0.3%
Electricity Related Losses	0.975	0.969	0.958	0.944	0.931	0.920	0.912	0.912	0.908	0.902	0.890	0.880	0.877	-0.7%
Total	3.959	3.993	4.045	4.060	4.058	4.043	4.041	4.054	4.061	4.067	4.060	4.053	4.058	0.0%

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-0.5%
E85 8/	0.001	0.001	0.002	0.087	0.114	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	10.4%
Motor Gasoline 2/	3.618	3.613	3.602	3.518	3.491	3.605	3.610	3.618	3.628	3.642	3.657	3.676	3.697	0.2%
Jet Fuel 9/	0.534	0.542	0.551	0.560	0.569	0.578	0.586	0.595	0.604	0.612	0.621	0.630	0.639	1.7%
Distillate Fuel Oil 10/	1.359	1.383	1.409	1.435	1.462	1.490	1.520	1.550	1.582	1.615	1.649	1.682	1.718	1.9%
Residual Fuel Oil	0.171	0.171	0.172	0.173	0.173	0.174	0.175	0.175	0.176	0.177	0.177	0.178	0.178	0.4%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	45.1%
Other Petroleum 11/	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.3%
Liquid Fuels and Other Petroleum Subtotal	5.717	5.746	5.770	5.807	5.845	5.884	5.929	5.977	6.029	6.085	6.144	6.205	6.273	0.7%
Pipeline Fuel Natural Gas	0.061	0.061	0.060	0.060	0.060	0.060	0.059	0.059	0.059	0.059	0.059	0.059	0.058	0.7%
Compressed Natural Gas	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	5.3%
Electricity	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.8%
Delivered Energy	5.789	5.818	5.843	5.880	5.917	5.957	6.002	6.049	6.102	6.158	6.217	6.278	6.346	0.7%
Electricity Related Losses	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	-0.3%
Total	5.795	5.823	5.848	5.885	5.922	5.962	6.007	6.054	6.107	6.164	6.223	6.284	6.351	0.7%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.123	0.123	0.124	0.123	0.123	0.124	0.125	0.125	0.126	0.127	0.128	0.128	0.129	0.6%
E85 8/	0.001	0.001	0.002	0.087	0.114	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	10.4%
Motor Gasoline 2/	3.695	3.691	3.679	3.595	3.569	3.682	3.688	3.696	3.707	3.721	3.737	3.755	3.777	0.2%
Jet Fuel 9/	0.534	0.542	0.551	0.560	0.569	0.578	0.586	0.595	0.604	0.612	0.621	0.630	0.639	1.7%
Kerosene	0.026	0.025	0.025	0.025	0.024	0.024	0.024	0.023	0.023	0.023	0.022	0.022	0.022	-1.0%
Distillate Fuel Oil	1.701	1.723	1.747	1.772	1.798	1.825	1.854	1.884	1.916	1.949	1.982	2.015	2.051	1.5%
Residual Fuel Oil	0.295	0.295	0.295	0.294	0.295	0.294	0.294	0.294	0.296	0.296	0.298	0.299	0.299	-0.1%
Petrochemical Feedstocks	0.200	0.198	0.196	0.194	0.193	0.192	0.191	0.191	0.190	0.190	0.189	0.189	0.188	-0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	45.1%
Other Petroleum 12/	0.371	0.369	0.367	0.367	0.369	0.368	0.370	0.373	0.374	0.378	0.380	0.381	0.385	-0.6%
Liquid Fuels and Other Petroleum Subtotal	6.946	6.967	6.986	7.017	7.055	7.090	7.135	7.186	7.239	7.300	7.361	7.422	7.494	0.6%
Natural Gas	1.442	1.450	1.462	1.473	1.482	1.488	1.495	1.500	1.508	1.513	1.518	1.521	1.523	0.6%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.021	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	1.7%
Pipeline Natural Gas	0.061	0.061	0.060	0.060	0.060	0.060	0.059	0.059	0.059	0.059	0.059	0.059	0.058	0.7%
Natural Gas Subtotal	1.524	1.531	1.543	1.553	1.561	1.568	1.573	1.578	1.586	1.592	1.597	1.598	1.600	0.6%
Metallurgical Coal	0.064	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.068	0.069	0.069	0.068	0.068	0.4%
Other Coal	0.271	0.271	0.271	0.270	0.270	0.270	0.269	0.269	0.269	0.269	0.268	0.268	0.267	-0.2%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	-0.009	-0.009	-0.009	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.007	-0.007	-0.007	-0.007	-4.7%
Coal Subtotal	0.327	0.327	0.328	0.328	0.329	0.329	0.329	0.329	0.330	0.330	0.330	0.329	0.328	0.1%
Biofuels Heat and Coproducts	0.027	0.072	0.132	0.157	0.163	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	33.2%
Renewable Energy 13/	0.608	0.614	0.620	0.627	0.633	0.640	0.646	0.654	0.661	0.668	0.673	0.679	0.685	0.8%
Electricity	3.313	3.360	3.405	3.450	3.500	3.551	3.607	3.658	3.713	3.768	3.824	3.872	3.924	1.5%
Delivered Energy	12.745	12.871	13.014	13.132	13.241	13.334	13.448	13.562	13.686	13.814	13.941	14.058	14.189	0.9%
Electricity Related Losses	5.284	5.343	5.361	5.361	5.361	5.380	5.407	5.477	5.523	5.560	5.574	5.584	5.635	0.4%
Total	18.028	18.213	18.375	18.493	18.603	18.715	18.855	19.038	19.209	19.374	19.515	19.641	19.824	0.7%
Electric Power 14/														
Distillate Fuel Oil	0.051	0.052	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.055	0.056	0.056	0.057	2.3%
Residual Fuel Oil	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	-1.4%
Liquid Fuels and Other Petroleum Subtotal	0.211	0.213	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.216	0.217	0.217	0.217	-0.7%
Natural Gas	0.792	0.755	0.712	0.686	0.672	0.653	0.636	0.634	0.636	0.649	0.661	0.643	0.639	-2.0%
Steam Coal	4.985	5.086	5.183	5.251	5.232	5.229	5.237	5.248	5.247	5.263	5.307	5.352	5.361	1.0%
Nuclear Power	2.080	2.080	2.080	2.080	2.157	2.248	2.339	2.447	2.544	2.600	2.611	2.644	2.738	1.3%
Renewable Energy 15/	0.491	0.532	0.541	0.543	0.549	0.550	0.551	0.554	0.558	0.563	0.566	0.563	0.567	4.2%
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Total 16/	8.597	8.702	8.767	8.811	8.862	8.932	9.014	9.134	9.236	9.328	9.398	9.456	9.559	0.8%

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	0.123	0.123	0.124	0.123	0.123	0.124	0.125	0.125	0.126	0.127	0.128	0.128	0.129	0.6%
E85 8/	0.001	0.001	0.002	0.087	0.114	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	10.4%
Motor Gasoline 2/	3.695	3.691	3.679	3.595	3.569	3.682	3.688	3.696	3.707	3.721	3.737	3.755	3.777	0.2%
Jet Fuel 9/	0.534	0.542	0.551	0.560	0.569	0.578	0.586	0.595	0.604	0.612	0.621	0.630	0.639	1.7%
Kerosene	0.026	0.025	0.025	0.025	0.024	0.024	0.024	0.023	0.023	0.023	0.022	0.022	0.022	-1.0%
Distillate Fuel Oil	1.752	1.775	1.800	1.826	1.851	1.878	1.907	1.937	1.969	2.004	2.038	2.071	2.108	1.5%
Residual Fuel Oil	0.456	0.456	0.455	0.455	0.456	0.455	0.455	0.456	0.456	0.457	0.459	0.459	0.460	-0.6%
Petrochemical Feedstocks	0.200	0.198	0.196	0.194	0.193	0.192	0.191	0.191	0.190	0.190	0.189	0.189	0.188	-0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	45.1%
Other Petroleum 12/	0.371	0.369	0.367	0.367	0.369	0.368	0.370	0.373	0.374	0.378	0.380	0.381	0.385	-0.6%
Liquid Fuels and Other Petroleum Subtotal	7.157	7.180	7.200	7.231	7.269	7.304	7.349	7.400	7.453	7.516	7.578	7.639	7.711	0.5%
Natural Gas	2.234	2.205	2.174	2.159	2.154	2.142	2.131	2.134	2.144	2.162	2.179	2.164	2.162	-0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.021	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	1.7%
Pipeline Natural Gas	0.061	0.061	0.060	0.060	0.060	0.060	0.059	0.059	0.059	0.059	0.059	0.059	0.058	0.7%
Natural Gas Subtotal	2.315	2.286	2.254	2.239	2.234	2.221	2.209	2.212	2.222	2.240	2.258	2.241	2.239	-0.3%
Metallurgical Coal	0.064	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.068	0.069	0.069	0.068	0.068	0.4%
Other Coal	5.257	5.357	5.453	5.521	5.502	5.499	5.506	5.517	5.516	5.531	5.575	5.619	5.629	0.9%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	-0.009	-0.009	-0.009	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.007	-0.007	-0.007	-0.007	-4.7%
Coal Subtotal	5.312	5.413	5.510	5.579	5.560	5.558	5.566	5.577	5.577	5.592	5.636	5.681	5.689	0.9%
Nuclear Power	2.080	2.080	2.080	2.080	2.157	2.248	2.339	2.447	2.544	2.600	2.611	2.644	2.738	1.3%
Biofuels Heat and Coproducts	0.027	0.072	0.132	0.157	0.163	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	33.2%
Renewable Energy 17/	1.099	1.146	1.162	1.170	1.182	1.190	1.197	1.208	1.219	1.231	1.239	1.242	1.252	2.0%
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Total	18.028	18.213	18.375	18.493	18.603	18.715	18.855	19.038	19.209	19.374	19.515	19.641	19.824	0.7%
Energy Use & Related Statistics														
Delivered Energy Use	12.745	12.871	13.014	13.132	13.241	13.334	13.448	13.562	13.686	13.814	13.941	14.058	14.189	0.9%
Total Energy Use	18.028	18.213	18.375	18.493	18.603	18.715	18.855	19.038	19.209	19.374	19.515	19.641	19.824	0.7%
Population (millions)	67.037	67.932	68.836	69.751	70.678	71.619	72.573	73.541	74.518	75.504	76.500	77.507	78.523	1.4%
Carbon Dioxide Emissions (million metric tons)	1099.04	1109.32	1118.28	1121.91	1121.75	1128.21	1131.93	1136.58	1140.75	1147.70	1157.00	1164.32	1170.20	0.6%

Table 5. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-south Atlantic - 05

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.039	0.036	0.035	0.038	0.037	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037
Kerosene	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004
Distillate Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Liquid Fuels and Other Petroleum Subtotal	0.045	0.042	0.041	0.045	0.043	0.042	0.043	0.043	0.043	0.043	0.044	0.044	0.044
Natural Gas	0.196	0.173	0.177	0.181	0.204	0.200	0.203	0.205	0.207	0.209	0.211	0.213	0.214
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/	0.031	0.030	0.030	0.035	0.033	0.032	0.031	0.031	0.031	0.031	0.031	0.031	0.030
Electricity	0.400	0.400	0.418	0.411	0.424	0.431	0.435	0.441	0.435	0.438	0.442	0.447	0.450
Delivered Energy	0.673	0.645	0.667	0.673	0.706	0.706	0.712	0.721	0.717	0.722	0.727	0.735	0.739
Electricity Related Losses	0.947	0.981	1.094	1.082	1.099	1.116	1.119	1.141	1.127	1.145	1.160	1.173	1.192
Total	1.620	1.626	1.760	1.755	1.805	1.822	1.832	1.862	1.844	1.867	1.887	1.909	1.931
Commercial													
Liquefied Petroleum Gases	0.007	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Motor Gasoline 2/	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Kerosene	0.001	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Distillate Fuel Oil	0.018	0.018	0.018	0.019	0.015	0.016	0.016	0.016	0.017	0.017	0.017	0.018	0.018
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.027	0.025	0.026	0.026	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.026	0.026
Natural Gas	0.141	0.132	0.136	0.138	0.138	0.138	0.140	0.143	0.145	0.148	0.150	0.152	0.154
Coal	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Electricity	0.282	0.283	0.293	0.291	0.299	0.302	0.307	0.312	0.318	0.324	0.331	0.337	0.343
Delivered Energy	0.459	0.450	0.463	0.464	0.468	0.473	0.481	0.489	0.498	0.507	0.516	0.524	0.532
Electricity Related Losses	0.666	0.695	0.765	0.766	0.774	0.782	0.789	0.807	0.823	0.848	0.869	0.885	0.908
Total	1.125	1.145	1.228	1.230	1.242	1.255	1.270	1.296	1.321	1.355	1.384	1.409	1.440
Industrial 4/													
Liquefied Petroleum Gases	0.035	0.036	0.036	0.037	0.036	0.036	0.035	0.035	0.034	0.034	0.033	0.033	0.032
Motor Gasoline 2/	0.033	0.033	0.033	0.033	0.032	0.033	0.034	0.033	0.033	0.033	0.033	0.033	0.033
Distillate Fuel Oil	0.115	0.118	0.120	0.122	0.118	0.119	0.120	0.119	0.116	0.116	0.116	0.117	0.116
Residual Fuel Oil	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.008	0.008	0.007
Petrochemical Feedstocks	0.098	0.098	0.089	0.090	0.093	0.096	0.098	0.100	0.102	0.102	0.102	0.102	0.101
Other Petroleum 5/	0.306	0.317	0.306	0.311	0.285	0.302	0.306	0.304	0.303	0.302	0.301	0.300	0.298
Liquid Fuels and Other Petroleum Subtotal	0.596	0.609	0.594	0.602	0.573	0.594	0.601	0.598	0.595	0.593	0.593	0.591	0.588
Natural Gas	0.455	0.462	0.474	0.477	0.471	0.465	0.470	0.469	0.466	0.464	0.461	0.459	0.456
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.027	0.028	0.023	0.025	0.027	0.028	0.029	0.029	0.028	0.028	0.028	0.028	0.027
Natural Gas Subtotal	0.482	0.490	0.497	0.503	0.499	0.493	0.498	0.498	0.494	0.492	0.489	0.486	0.483
Metalurgical Coal	0.071	0.070	0.072	0.075	0.074	0.073	0.073	0.071	0.070	0.070	0.071	0.072	0.073
Other Industrial Coal	0.169	0.165	0.169	0.177	0.172	0.170	0.168	0.165	0.161	0.161	0.161	0.160	0.160
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.018	-0.025	-0.012	-0.028	-0.012	-0.012	-0.012	-0.012	-0.011	-0.011	-0.011	-0.011	-0.010
Coal Subtotal	0.222	0.210	0.229	0.224	0.233	0.231	0.228	0.224	0.220	0.220	0.220	0.221	0.222
Biofuels Heat and Coproducts	0.002	0.005	0.003	0.009	0.008	0.014	0.008	0.012	0.046	0.067	0.077	0.082	0.092
Renewable Energy 7/	0.323	0.334	0.347	0.355	0.323	0.332	0.338	0.341	0.342	0.345	0.349	0.354	0.357
Electricity	0.438	0.440	0.446	0.447	0.419	0.429	0.438	0.442	0.444	0.444	0.445	0.446	0.446
Delivered Energy	2.063	2.088	2.116	2.140	2.054	2.093	2.111	2.115	2.140	2.160	2.174	2.180	2.188
Electricity Related Losses	1.036	1.079	1.165	1.177	1.085	1.112	1.126	1.142	1.149	1.160	1.169	1.172	1.182
Total	3.100	3.167	3.282	3.316	3.139	3.205	3.237	3.257	3.289	3.320	3.343	3.352	3.371

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.169	1.181	1.189	1.191	1.197	1.205	1.213	1.223	1.231	1.238	1.242	1.245	1.246
Jet Fuel 9/	0.143	0.155	0.155	0.159	0.162	0.167	0.173	0.177	0.179	0.182	0.185	0.188	0.191
Distillate Fuel Oil 10/	0.545	0.563	0.571	0.568	0.574	0.591	0.607	0.617	0.624	0.629	0.635	0.642	0.647
Residual Fuel Oil	0.021	0.021	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Liquid Fuels and Other Petroleum Subtotal	1.893	1.934	1.952	1.955	1.969	1.999	2.028	2.053	2.070	2.084	2.098	2.111	2.120
Pipeline Fuel Natural Gas	0.055	0.055	0.064	0.063	0.064	0.065	0.066	0.068	0.067	0.067	0.068	0.069	0.069
Compressed Natural Gas	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Delivered Energy	1.950	1.991	2.018	2.020	2.037	2.067	2.098	2.125	2.142	2.157	2.171	2.186	2.195
Electricity Related Losses	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	1.950	1.991	2.018	2.020	2.037	2.067	2.098	2.125	2.142	2.157	2.171	2.186	2.195
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.082	0.078	0.079	0.083	0.080	0.079	0.079	0.079	0.078	0.078	0.077	0.077	0.077
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.202	1.215	1.223	1.225	1.230	1.239	1.247	1.257	1.265	1.271	1.276	1.279	1.280
Jet Fuel 9/	0.143	0.155	0.155	0.159	0.162	0.167	0.173	0.177	0.179	0.182	0.185	0.188	0.191
Kerosene	0.005	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Distillate Fuel Oil	0.682	0.702	0.712	0.712	0.710	0.728	0.746	0.755	0.760	0.765	0.772	0.780	0.784
Residual Fuel Oil	0.029	0.029	0.031	0.031	0.031	0.030	0.029	0.029	0.028	0.028	0.029	0.029	0.028
Petrochemical Feedstocks	0.098	0.098	0.089	0.090	0.093	0.096	0.098	0.100	0.102	0.102	0.102	0.102	0.101
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.319	0.330	0.319	0.323	0.297	0.315	0.318	0.316	0.315	0.314	0.313	0.312	0.310
Liquid Fuels and Other Petroleum Subtotal	2.561	2.611	2.613	2.628	2.607	2.658	2.695	2.718	2.733	2.745	2.760	2.772	2.777
Natural Gas	0.793	0.768	0.789	0.798	0.816	0.806	0.816	0.822	0.823	0.826	0.828	0.830	0.830
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.027	0.028	0.023	0.025	0.027	0.028	0.029	0.029	0.028	0.028	0.028	0.028	0.027
Pipeline Natural Gas	0.055	0.055	0.064	0.063	0.064	0.065	0.066	0.068	0.067	0.067	0.068	0.069	0.069
Natural Gas Subtotal	0.875	0.851	0.876	0.886	0.907	0.900	0.911	0.919	0.918	0.921	0.923	0.926	0.926
Metallurgical Coal	0.071	0.070	0.072	0.075	0.074	0.073	0.073	0.071	0.070	0.070	0.071	0.072	0.073
Other Coal	0.177	0.172	0.175	0.184	0.179	0.177	0.175	0.171	0.168	0.168	0.167	0.167	0.166
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.018	-0.025	-0.012	-0.028	-0.012	-0.012	-0.012	-0.012	-0.011	-0.011	-0.011	-0.011	-0.010
Coal Subtotal	0.229	0.217	0.235	0.231	0.240	0.237	0.235	0.231	0.227	0.226	0.227	0.228	0.228
Biofuels Heat and Coproducts	0.002	0.005	0.003	0.009	0.008	0.014	0.008	0.012	0.046	0.067	0.077	0.082	0.092
Renewable Energy 13/	0.358	0.367	0.381	0.394	0.360	0.367	0.373	0.375	0.376	0.379	0.384	0.388	0.391
Electricity	1.120	1.123	1.157	1.149	1.142	1.163	1.180	1.195	1.197	1.206	1.217	1.230	1.239
Delivered Energy	5.146	5.173	5.264	5.298	5.264	5.339	5.402	5.450	5.497	5.545	5.588	5.626	5.654
Electricity Related Losses	2.649	2.755	3.024	3.024	2.958	3.011	3.035	3.091	3.100	3.154	3.197	3.230	3.282
Total	7.795	7.929	8.288	8.322	8.222	8.350	8.437	8.541	8.597	8.699	8.786	8.856	8.937
Electric Power 14/													
Distillate Fuel Oil	0.020	0.042	0.018	0.018	0.018	0.018	0.016	0.017	0.017	0.016	0.016	0.016	0.016
Residual Fuel Oil	0.041	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Liquid Fuels and Other Petroleum Subtotal	0.061	0.044	0.019	0.019	0.019	0.019	0.017	0.018	0.018	0.017	0.017	0.017	0.017
Natural Gas	0.271	0.312	0.570	0.556	0.465	0.503	0.483	0.491	0.460	0.460	0.472	0.481	0.475
Steam Coal	2.469	2.550	2.577	2.553	2.572	2.605	2.649	2.693	2.706	2.751	2.789	2.816	2.831
Nuclear Power	0.722	0.719	0.785	0.812	0.805	0.805	0.824	0.840	0.859	0.873	0.873	0.873	0.915
Renewable Energy 15/	0.246	0.253	0.230	0.232	0.238	0.241	0.241	0.243	0.230	0.258	0.263	0.272	0.282
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total 16/	3.769	3.878	4.181	4.173	4.099	4.173	4.215	4.286	4.296	4.360	4.415	4.460	4.521

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	0.082	0.078	0.079	0.083	0.080	0.079	0.079	0.079	0.078	0.078	0.077	0.077	0.077
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.202	1.215	1.223	1.225	1.230	1.239	1.247	1.257	1.265	1.271	1.276	1.279	1.280
Jet Fuel 9/	0.143	0.155	0.155	0.159	0.162	0.167	0.173	0.177	0.179	0.182	0.185	0.188	0.191
Kerosene	0.005	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Distillate Fuel Oil	0.702	0.744	0.730	0.731	0.729	0.746	0.762	0.772	0.776	0.781	0.788	0.796	0.800
Residual Fuel Oil	0.070	0.032	0.032	0.032	0.031	0.031	0.030	0.030	0.029	0.029	0.030	0.030	0.029
Petrochemical Feedstocks	0.098	0.098	0.089	0.090	0.093	0.096	0.098	0.100	0.102	0.102	0.102	0.102	0.101
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.319	0.330	0.319	0.323	0.297	0.315	0.318	0.316	0.315	0.314	0.313	0.312	0.310
Liquid Fuels and Other Petroleum Subtotal	2.622	2.655	2.632	2.648	2.627	2.677	2.712	2.735	2.750	2.763	2.777	2.789	2.794
Natural Gas	1.064	1.080	1.359	1.354	1.281	1.309	1.300	1.313	1.282	1.285	1.299	1.311	1.306
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.027	0.028	0.023	0.025	0.027	0.028	0.029	0.029	0.028	0.028	0.028	0.028	0.027
Pipeline Natural Gas	0.055	0.055	0.064	0.063	0.064	0.065	0.066	0.068	0.067	0.067	0.068	0.069	0.069
Natural Gas Subtotal	1.146	1.163	1.446	1.442	1.373	1.402	1.395	1.410	1.378	1.380	1.395	1.407	1.402
Metallurgical Coal	0.071	0.070	0.072	0.075	0.074	0.073	0.073	0.071	0.070	0.070	0.071	0.072	0.073
Other Coal	2.646	2.721	2.752	2.737	2.751	2.782	2.823	2.865	2.874	2.919	2.956	2.982	2.997
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	-0.018	-0.025	-0.012	-0.028	-0.012	-0.012	-0.012	-0.012	-0.011	-0.011	-0.011	-0.011	-0.010
Coal Subtotal	2.699	2.766	2.812	2.784	2.812	2.843	2.884	2.924	2.932	2.978	3.016	3.043	3.059
Nuclear Power	0.722	0.719	0.785	0.812	0.805	0.805	0.824	0.840	0.859	0.873	0.873	0.873	0.915
Biofuels Heat and Coproducts	0.002	0.005	0.003	0.009	0.008	0.014	0.008	0.012	0.046	0.067	0.077	0.082	0.092
Renewable Energy 17/	0.603	0.620	0.610	0.626	0.598	0.608	0.614	0.619	0.630	0.637	0.647	0.660	0.674
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	7.795	7.929	8.288	8.322	8.222	8.350	8.437	8.541	8.597	8.699	8.786	8.856	8.937
Energy Use & Related Statistics													
Delivered Energy Use	5.146	5.173	5.264	5.298	5.264	5.339	5.402	5.450	5.497	5.545	5.588	5.626	5.654
Total Energy Use	7.795	7.929	8.288	8.322	8.222	8.350	8.437	8.541	8.597	8.699	8.786	8.856	8.937
Population (millions)	17.680	17.786	17.886	17.984	18.080	18.176	18.270	18.365	18.458	18.550	18.641	18.732	18.821
Carbon Dioxide Emissions (million metric tons)	486.30	493.91	512.35	509.59	506.84	513.65	519.07	525.36	525.68	530.75	536.06	540.30	542.08

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.3%
Kerosene	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	2.2%
Distillate Fuel Oil	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-0.3%
Liquid Fuels and Other Petroleum Subtotal	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.046	0.046	0.4%
Natural Gas	0.215	0.216	0.218	0.219	0.219	0.220	0.221	0.221	0.221	0.222	0.222	0.221	0.221	1.0%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.4%
Renewable Energy 1/	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.1%
Electricity	0.454	0.458	0.461	0.464	0.468	0.473	0.478	0.482	0.488	0.493	0.499	0.503	0.508	1.0%
Delivered Energy	0.745	0.750	0.755	0.758	0.763	0.769	0.776	0.779	0.785	0.791	0.798	0.801	0.805	0.9%
Electricity Related Losses	1.238	1.308	1.375	1.428	1.482	1.534	1.578	1.611	1.645	1.687	1.725	1.747	1.770	2.5%
Total	1.983	2.058	2.130	2.186	2.245	2.302	2.354	2.390	2.431	2.478	2.523	2.548	2.576	1.9%
Commercial														
Liquefied Petroleum Gases	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.9%
Motor Gasoline 2/	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.4%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.7%
Distillate Fuel Oil	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.2%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.0%
Liquid Fuels and Other Petroleum Subtotal	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.4%
Natural Gas	0.155	0.156	0.158	0.159	0.161	0.162	0.163	0.164	0.166	0.167	0.168	0.170	0.171	1.1%
Coal	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.1%
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.348	0.354	0.359	0.365	0.370	0.376	0.382	0.388	0.394	0.400	0.405	0.411	0.417	1.6%
Delivered Energy	0.539	0.546	0.552	0.560	0.567	0.574	0.581	0.589	0.596	0.603	0.610	0.618	0.625	1.4%
Electricity Related Losses	0.949	1.010	1.070	1.124	1.173	1.221	1.260	1.295	1.329	1.368	1.402	1.429	1.454	3.1%
Total	1.488	1.556	1.623	1.683	1.740	1.796	1.842	1.884	1.925	1.971	2.012	2.046	2.078	2.5%
Industrial 4/														
Liquefied Petroleum Gases	0.032	0.031	0.031	0.031	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.029	-0.8%
Motor Gasoline 2/	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.1%
Distillate Fuel Oil	0.116	0.115	0.115	0.115	0.114	0.114	0.114	0.115	0.115	0.116	0.116	0.116	0.116	0.0%
Residual Fuel Oil	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.8%
Petrochemical Feedstocks	0.100	0.099	0.098	0.097	0.097	0.097	0.096	0.096	0.096	0.095	0.095	0.095	0.094	-0.2%
Other Petroleum 5/	0.297	0.296	0.294	0.293	0.295	0.294	0.294	0.296	0.298	0.301	0.303	0.304	0.307	-0.1%
Liquid Fuels and Other Petroleum Subtotal	0.585	0.581	0.577	0.575	0.576	0.574	0.574	0.576	0.579	0.582	0.583	0.584	0.587	-0.2%
Natural Gas	0.454	0.453	0.454	0.456	0.456	0.455	0.455	0.455	0.455	0.455	0.453	0.452	0.451	-0.1%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.027	0.027	0.026	0.025	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	-0.8%
Natural Gas Subtotal	0.481	0.479	0.480	0.481	0.481	0.480	0.479	0.479	0.479	0.479	0.477	0.476	0.475	-0.1%
Metalurgical Coal	0.073	0.074	0.075	0.076	0.076	0.077	0.077	0.078	0.078	0.078	0.078	0.078	0.077	0.4%
Other Industrial Coal	0.159	0.159	0.159	0.159	0.159	0.158	0.158	0.158	0.158	0.158	0.157	0.157	0.157	-0.2%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	-0.010	-0.010	-0.010	-0.010	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008	-0.008	-0.008	-0.008	-4.7%
Coal Subtotal	0.222	0.223	0.224	0.225	0.226	0.226	0.226	0.227	0.227	0.228	0.227	0.227	0.227	0.3%
Biofuels Heat and Coproducts	0.099	0.100	0.120	0.170	0.221	0.221	0.217	0.213	0.201	0.200	0.196	0.193	0.201	16.9%
Renewable Energy 7/	0.361	0.365	0.370	0.374	0.378	0.383	0.387	0.392	0.397	0.401	0.405	0.409	0.413	0.9%
Electricity	0.446	0.444	0.444	0.443	0.443	0.443	0.443	0.444	0.445	0.446	0.445	0.445	0.445	0.1%
Delivered Energy	2.195	2.193	2.215	2.269	2.324	2.325	2.326	2.331	2.328	2.335	2.334	2.334	2.348	0.5%
Electricity Related Losses	1.216	1.270	1.323	1.365	1.403	1.437	1.462	1.483	1.501	1.525	1.539	1.546	1.553	1.5%
Total	3.411	3.463	3.538	3.635	3.727	3.763	3.788	3.814	3.829	3.860	3.873	3.880	3.901	0.9%

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.1%
E85 8/	0.000	0.000	0.000	0.052	0.059	0.089	0.107	0.126	0.120	0.121	0.121	0.116	0.124	37.3%
Motor Gasoline 2/	1.244	1.236	1.226	1.155	1.139	1.094	1.065	1.035	1.038	1.033	1.030	1.033	1.022	-0.6%
Jet Fuel 9/	0.194	0.196	0.199	0.202	0.205	0.207	0.210	0.213	0.215	0.218	0.220	0.223	0.225	1.6%
Distillate Fuel Oil 10/	0.653	0.659	0.666	0.674	0.681	0.689	0.697	0.705	0.714	0.723	0.732	0.740	0.750	1.2%
Residual Fuel Oil	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	-0.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.8%
Other Petroleum 11/	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	-0.2%
Liquid Fuels and Other Petroleum Subtotal	2.126	2.127	2.127	2.117	2.118	2.114	2.114	2.123	2.130	2.130	2.139	2.148	2.157	0.5%
Pipeline Fuel Natural Gas	0.069	0.069	0.068	0.067	0.067	0.066	0.066	0.065	0.066	0.066	0.066	0.066	0.066	0.8%
Compressed Natural Gas	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	6.8%
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.8%
Delivered Energy	2.201	2.203	2.202	2.191	2.193	2.188	2.188	2.188	2.196	2.204	2.213	2.222	2.231	0.5%
Electricity Related Losses	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.7%
Total	2.201	2.203	2.202	2.191	2.193	2.188	2.188	2.188	2.197	2.204	2.213	2.222	2.231	0.5%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.075	-0.1%
E85 8/	0.000	0.000	0.000	0.052	0.059	0.089	0.107	0.126	0.120	0.121	0.121	0.116	0.124	37.3%
Motor Gasoline 2/	1.277	1.270	1.260	1.188	1.172	1.128	1.099	1.072	1.067	1.065	1.065	1.068	1.057	-0.6%
Jet Fuel 9/	0.194	0.196	0.199	0.202	0.205	0.207	0.210	0.213	0.215	0.218	0.220	0.223	0.225	1.6%
Kerosene	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1.7%
Distillate Fuel Oil	0.790	0.796	0.802	0.810	0.817	0.824	0.833	0.841	0.851	0.860	0.869	0.878	0.888	1.0%
Residual Fuel Oil	0.028	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	-0.3%
Petrochemical Feedstocks	0.100	0.099	0.098	0.097	0.097	0.097	0.096	0.096	0.096	0.095	0.095	0.095	0.094	-0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.8%
Other Petroleum 12/	0.310	0.308	0.306	0.306	0.307	0.306	0.306	0.308	0.310	0.313	0.315	0.316	0.319	-0.1%
Liquid Fuels and Other Petroleum Subtotal	2.781	2.778	2.775	2.763	2.765	2.760	2.760	2.774	2.785	2.795	2.806	2.817	2.817	0.3%
Natural Gas	0.831	0.832	0.837	0.841	0.843	0.844	0.846	0.847	0.850	0.851	0.852	0.851	0.852	0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.027	0.027	0.026	0.025	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	-0.8%
Pipeline Natural Gas	0.069	0.069	0.068	0.067	0.067	0.066	0.066	0.065	0.066	0.066	0.066	0.066	0.066	0.8%
Natural Gas Subtotal	0.927	0.928	0.931	0.933	0.935	0.935	0.937	0.937	0.940	0.941	0.942	0.941	0.941	0.4%
Metallurgical Coal	0.073	0.074	0.075	0.076	0.076	0.077	0.077	0.078	0.078	0.078	0.078	0.078	0.077	0.4%
Other Coal	0.166	0.166	0.166	0.165	0.165	0.165	0.165	0.165	0.164	0.164	0.164	0.164	0.164	-0.2%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	-0.010	-0.010	-0.010	-0.010	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008	-0.008	-0.008	-0.008	-4.7%
Coal Subtotal	0.229	0.230	0.231	0.231	0.232	0.233	0.233	0.234	0.234	0.234	0.234	0.234	0.233	0.3%
Biofuels Heat and Coproducts	0.099	0.100	0.120	0.170	0.221	0.221	0.217	0.213	0.201	0.200	0.196	0.193	0.201	16.9%
Renewable Energy 13/	0.395	0.399	0.404	0.408	0.412	0.416	0.421	0.426	0.431	0.435	0.439	0.443	0.447	0.8%
Electricity	1.248	1.256	1.264	1.272	1.281	1.292	1.304	1.314	1.326	1.338	1.349	1.359	1.370	0.8%
Delivered Energy	5.679	5.691	5.724	5.778	5.847	5.856	5.871	5.887	5.906	5.933	5.955	5.974	6.009	0.6%
Electricity Related Losses	3.404	3.589	3.769	3.917	4.057	4.193	4.301	4.389	4.475	4.580	4.666	4.722	4.777	2.3%
Total	9.083	9.280	9.493	9.696	9.905	10.049	10.172	10.275	10.381	10.513	10.621	10.696	10.786	1.3%
Electric Power 14/														
Distillate Fuel Oil	0.015	0.015	0.016	0.018	0.019	0.020	0.020	0.020	0.020	0.022	0.023	0.025	0.025	-2.2%
Residual Fuel Oil	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-4.2%
Liquid Fuels and Other Petroleum Subtotal	0.016	0.016	0.017	0.019	0.020	0.021	0.021	0.021	0.021	0.023	0.024	0.025	0.025	-2.3%
Natural Gas	0.465	0.441	0.393	0.317	0.315	0.316	0.323	0.315	0.325	0.324	0.340	0.332	0.325	0.2%
Steam Coal	2.832	2.858	2.866	3.033	3.172	3.315	3.429	3.536	3.623	3.740	3.818	3.889	3.961	1.9%
Nuclear Power	1.045	1.227	1.454	1.516	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	3.2%
Renewable Energy 15/	0.294	0.302	0.303	0.304	0.301	0.301	0.301	0.300	0.300	0.300	0.303	0.303	0.304	0.8%
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Total 16/	4.652	4.844	5.033	5.189	5.339	5.485	5.605	5.703	5.802	5.918	6.016	6.081	6.147	1.9%

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.075	-0.1%
E85 8/	0.000	0.000	0.000	0.052	0.059	0.089	0.107	0.126	0.120	0.121	0.121	0.116	0.124	37.3%
Motor Gasoline 2/	1.277	1.270	1.260	1.188	1.172	1.128	1.099	1.069	1.072	1.067	1.065	1.068	1.057	-0.6%
Jet Fuel 9/	0.194	0.196	0.199	0.202	0.205	0.207	0.210	0.213	0.215	0.218	0.220	0.223	0.225	1.6%
Kerosene	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1.7%
Distillate Fuel Oil	0.804	0.811	0.818	0.828	0.836	0.844	0.853	0.862	0.871	0.882	0.893	0.903	0.913	0.9%
Residual Fuel Oil	0.029	0.029	0.029	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	-0.5%
Petrochemical Feedstocks	0.100	0.099	0.098	0.097	0.097	0.097	0.096	0.096	0.096	0.095	0.095	0.095	0.094	-0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44.8%
Other Petroleum 12/	0.310	0.308	0.306	0.306	0.307	0.306	0.306	0.308	0.310	0.313	0.315	0.316	0.319	-0.1%
Liquid Fuels and Other Petroleum Subtotal	2.796	2.795	2.792	2.782	2.786	2.781	2.781	2.784	2.795	2.807	2.819	2.831	2.843	0.3%
Natural Gas	1.296	1.273	1.230	1.158	1.158	1.160	1.169	1.163	1.175	1.176	1.191	1.183	1.176	0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.027	0.027	0.026	0.025	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	-0.8%
Pipeline Natural Gas	0.069	0.069	0.068	0.067	0.067	0.066	0.066	0.065	0.066	0.066	0.066	0.066	0.066	0.8%
Natural Gas Subtotal	1.393	1.369	1.324	1.250	1.250	1.251	1.259	1.252	1.265	1.266	1.281	1.273	1.266	0.4%
Metallurgical Coal	0.073	0.074	0.075	0.076	0.076	0.077	0.077	0.078	0.078	0.078	0.078	0.078	0.077	0.4%
Other Coal	2.998	3.023	3.031	3.199	3.337	3.480	3.594	3.700	3.787	3.904	3.982	4.053	4.125	1.7%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Net Coal Coke Imports	-0.010	-0.010	-0.010	-0.010	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008	-0.008	-0.008	-0.008	-4.7%
Coal Subtotal	3.061	3.087	3.096	3.265	3.404	3.548	3.662	3.769	3.857	3.974	4.052	4.123	4.195	1.7%
Nuclear Power	1.045	1.227	1.454	1.516	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	3.2%
Biofuels Heat and Coproducts	0.099	0.100	0.120	0.170	0.221	0.221	0.217	0.213	0.201	0.200	0.196	0.193	0.201	16.9%
Renewable Energy 17/	0.689	0.701	0.707	0.712	0.713	0.718	0.722	0.726	0.732	0.735	0.742	0.745	0.751	0.8%
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Total	9.083	9.280	9.493	9.696	9.905	10.049	10.172	10.275	10.381	10.513	10.621	10.696	10.786	1.3%
Energy Use & Related Statistics														
Delivered Energy Use	5.679	5.691	5.724	5.778	5.847	5.856	5.871	5.887	5.906	5.933	5.955	5.974	6.009	0.6%
Total Energy Use	9.083	9.280	9.493	9.696	9.905	10.049	10.172	10.275	10.381	10.513	10.621	10.696	10.786	1.3%
Population (millions)	18.910	18.999	19.088	19.177	19.267	19.357	19.449	19.542	19.635	19.728	19.822	19.917	20.012	0.5%
Carbon Dioxide Emissions (million metric tons)	542.02	543.56	541.98	550.96	564.34	576.72	587.46	596.70	606.74	618.79	627.81	635.01	642.02	1.1%

Table 6. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-East South Central - 06

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.058	0.053	0.059	0.058	0.057	0.056	0.057	0.057	0.057	0.057	0.058	0.058	0.058
Kerosene	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
Distillate Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.059	0.053	0.060	0.058	0.057	0.057	0.057	0.057	0.058	0.058	0.058	0.058	0.059
Natural Gas	0.327	0.293	0.342	0.324	0.348	0.346	0.350	0.356	0.358	0.362	0.366	0.370	0.372
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 1/	0.029	0.025	0.034	0.033	0.032	0.031	0.030	0.030	0.030	0.030	0.029	0.029	0.029
Electricity	0.661	0.661	0.656	0.669	0.681	0.694	0.703	0.714	0.705	0.711	0.717	0.727	0.733
Delivered Energy	1.076	1.033	1.093	1.085	1.119	1.127	1.141	1.157	1.151	1.160	1.170	1.185	1.193
Electricity Related Losses	1.384	1.413	1.399	1.408	1.416	1.425	1.434	1.448	1.407	1.402	1.417	1.429	1.434
Total	2.460	2.446	2.492	2.493	2.535	2.553	2.575	2.605	2.558	2.562	2.588	2.613	2.627
Commercial													
Liquefied Petroleum Gases	0.009	0.008	0.009	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Motor Gasoline 2/	0.011	0.012	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.012	0.011	0.012
Kerosene	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Distillate Fuel Oil	0.017	0.017	0.017	0.017	0.014	0.015	0.015	0.015	0.016	0.016	0.017	0.017	0.017
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.038	0.037	0.038	0.038	0.034	0.035	0.036	0.037	0.037	0.038	0.038	0.039	0.039
Natural Gas	0.264	0.246	0.269	0.265	0.262	0.264	0.270	0.276	0.281	0.287	0.292	0.296	0.300
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Electricity	0.550	0.556	0.572	0.586	0.587	0.596	0.609	0.621	0.634	0.648	0.662	0.675	0.688
Delivered Energy	0.856	0.843	0.883	0.894	0.887	0.900	0.920	0.939	0.957	0.977	0.996	1.015	1.031
Electricity Related Losses	1.153	1.187	1.218	1.232	1.219	1.225	1.242	1.260	1.265	1.280	1.308	1.328	1.345
Total	2.009	2.030	2.101	2.126	2.107	2.126	2.162	2.198	2.222	2.257	2.305	2.342	2.376
Industrial 4/													
Liquefied Petroleum Gases	1.708	1.724	1.753	1.775	1.751	1.733	1.711	1.679	1.650	1.629	1.610	1.588	1.568
Motor Gasoline 2/	0.056	0.057	0.057	0.057	0.056	0.056	0.057	0.057	0.056	0.056	0.056	0.057	0.056
Distillate Fuel Oil	0.194	0.198	0.202	0.204	0.198	0.199	0.201	0.199	0.195	0.194	0.195	0.195	0.195
Residual Fuel Oil	0.025	0.025	0.028	0.029	0.028	0.027	0.025	0.024	0.022	0.022	0.022	0.022	0.022
Petrochemical Feedstocks	0.763	0.760	0.693	0.699	0.718	0.741	0.763	0.778	0.794	0.792	0.791	0.788	0.785
Other Petroleum 5/	1.371	1.474	1.444	1.442	1.361	1.408	1.428	1.434	1.457	1.459	1.454	1.434	1.422
Liquid Fuels and Other Petroleum Subtotal	4.116	4.239	4.176	4.206	4.111	4.164	4.186	4.170	4.174	4.153	4.129	4.084	4.048
Natural Gas	2.519	2.424	2.503	2.500	2.667	2.687	2.715	2.720	2.728	2.720	2.709	2.696	2.684
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.515	0.545	0.508	0.497	0.510	0.519	0.516	0.515	0.512	0.507	0.507	0.507	0.505
Natural Gas Subtotal	3.034	2.969	3.011	2.996	3.177	3.207	3.231	3.235	3.240	3.227	3.216	3.203	3.189
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Industrial Coal	0.094	0.092	0.094	0.099	0.098	0.096	0.095	0.093	0.092	0.091	0.091	0.091	0.091
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.028	0.005	0.000	0.000	0.005	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.094	0.092	0.094	0.099	0.098	0.096	0.107	0.121	0.096	0.091	0.091	0.096	0.091
Biofuels Heat and Coproducts	0.001	0.002	0.002	0.028	0.014	0.014	0.014	0.014	0.029	0.047	0.047	0.048	0.053
Renewable Energy 7/	0.325	0.337	0.350	0.358	0.325	0.334	0.341	0.343	0.345	0.348	0.352	0.357	0.360
Electricity	0.534	0.523	0.534	0.514	0.524	0.540	0.552	0.558	0.562	0.563	0.564	0.564	0.563
Delivered Energy	8.104	8.161	8.167	8.201	8.249	8.355	8.429	8.441	8.446	8.429	8.400	8.353	8.304
Electricity Related Losses	1.119	1.118	1.139	1.081	1.090	1.109	1.126	1.130	1.122	1.111	1.115	1.108	1.101
Total	9.222	9.279	9.306	9.282	9.338	9.465	9.555	9.571	9.568	9.540	9.515	9.461	9.405

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	2.089	2.110	2.125	2.125	2.133	2.147	2.161	2.183	2.204	2.221	2.236	2.250	2.261
Jet Fuel 9/	0.658	0.683	0.694	0.711	0.729	0.754	0.782	0.805	0.818	0.833	0.848	0.865	0.881
Distillate Fuel Oil 10/	0.970	1.001	1.015	1.019	1.036	1.072	1.108	1.131	1.147	1.161	1.177	1.195	1.209
Residual Fuel Oil	0.219	0.220	0.235	0.232	0.230	0.228	0.226	0.227	0.228	0.228	0.229	0.230	0.231
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.030	0.030	0.028	0.028	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.030	0.030
Liquid Fuels and Other Petroleum Subtotal	3.969	4.046	4.100	4.118	4.159	4.233	4.308	4.378	4.428	4.475	4.523	4.573	4.615
Pipeline Fuel Natural Gas	0.168	0.166	0.153	0.149	0.155	0.159	0.160	0.162	0.161	0.162	0.164	0.165	0.165
Compressed Natural Gas	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001
Delivered Energy	4.139	4.214	4.256	4.270	4.317	4.396	4.474	4.546	4.595	4.643	4.694	4.746	4.788
Electricity Related Losses	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total	4.140	4.215	4.257	4.271	4.318	4.397	4.475	4.547	4.596	4.644	4.695	4.747	4.789
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	1.777	1.787	1.824	1.843	1.817	1.800	1.779	1.747	1.718	1.698	1.679	1.657	1.637
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	2.156	2.179	2.193	2.193	2.200	2.215	2.230	2.252	2.271	2.289	2.304	2.318	2.329
Jet Fuel 9/	0.658	0.683	0.694	0.711	0.729	0.754	0.782	0.805	0.818	0.833	0.848	0.865	0.881
Kerosene	0.016	0.012	0.009	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012
Distillate Fuel Oil	1.180	1.215	1.233	1.241	1.247	1.286	1.324	1.345	1.357	1.371	1.389	1.408	1.421
Residual Fuel Oil	0.244	0.246	0.263	0.261	0.258	0.255	0.251	0.251	0.250	0.250	0.252	0.253	0.253
Petrochemical Feedstocks	0.763	0.760	0.693	0.699	0.718	0.741	0.763	0.778	0.794	0.792	0.791	0.788	0.785
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	1.386	1.493	1.465	1.460	1.380	1.427	1.447	1.452	1.475	1.478	1.473	1.453	1.441
Liquid Fuels and Other Petroleum Subtotal	8.181	8.375	8.374	8.420	8.361	8.489	8.587	8.643	8.696	8.723	8.749	8.755	8.761
Natural Gas	3.112	2.966	3.117	3.092	3.281	3.302	3.341	3.357	3.373	3.375	3.373	3.370	3.363
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.515	0.545	0.508	0.497	0.510	0.519	0.516	0.515	0.512	0.507	0.507	0.507	0.505
Pipeline Natural Gas	0.168	0.166	0.153	0.149	0.155	0.159	0.160	0.162	0.161	0.162	0.164	0.165	0.165
Natural Gas Subtotal	3.795	3.676	3.778	3.737	3.945	3.980	4.016	4.034	4.046	4.044	4.044	4.042	4.033
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.095	0.092	0.094	0.099	0.098	0.097	0.095	0.094	0.092	0.092	0.091	0.091	0.091
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.028	0.005	0.000	0.000	0.005	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.095	0.092	0.094	0.099	0.098	0.097	0.107	0.121	0.097	0.092	0.091	0.096	0.091
Biofuels Heat and Coproducts	0.001	0.002	0.002	0.028	0.014	0.014	0.014	0.014	0.029	0.047	0.047	0.048	0.053
Renewable Energy 13/	0.358	0.366	0.388	0.396	0.362	0.369	0.375	0.378	0.379	0.382	0.386	0.390	0.394
Electricity	1.746	1.741	1.763	1.770	1.793	1.830	1.865	1.893	1.902	1.922	1.944	1.967	1.985
Delivered Energy	14.175	14.251	14.400	14.450	14.572	14.779	14.965	15.083	15.149	15.210	15.261	15.298	15.316
Electricity Related Losses	3.656	3.719	3.756	3.722	3.725	3.761	3.802	3.838	3.796	3.794	3.842	3.866	3.881
Total	17.831	17.970	18.156	18.171	18.298	18.540	18.767	18.921	18.945	19.004	19.103	19.164	19.197

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power 14/													
Distillate Fuel Oil	0.007	0.035	0.015	0.015	0.016	0.016	0.017	0.018	0.018	0.019	0.023	0.023	0.024
Residual Fuel Oil	0.052	0.008	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005
Liquid Fuels and Other Petroleum Subtotal	0.058	0.043	0.019	0.018	0.020	0.020	0.020	0.023	0.023	0.024	0.028	0.029	0.029
Natural Gas	2.101	2.106	2.181	2.153	2.168	2.188	2.176	2.128	2.060	2.051	2.104	2.144	2.130
Steam Coal	2.429	2.422	2.392	2.369	2.373	2.424	2.510	2.617	2.631	2.640	2.636	2.641	2.665
Nuclear Power	0.726	0.723	0.729	0.727	0.724	0.724	0.724	0.727	0.727	0.740	0.740	0.740	0.752
Renewable Energy 15/	0.086	0.166	0.201	0.225	0.236	0.236	0.237	0.238	0.257	0.263	0.277	0.279	0.289
Electricity Imports	-0.001	-0.003	-0.004	-0.004	-0.003	-0.002	-0.002	-0.002	-0.003	-0.003	-0.002	-0.002	-0.002
Total 16/	5.401	5.459	5.519	5.491	5.518	5.591	5.667	5.732	5.698	5.716	5.786	5.832	5.866
Total Energy Consumption													
Liquefied Petroleum Gases	1.777	1.787	1.824	1.843	1.817	1.800	1.779	1.747	1.718	1.698	1.679	1.657	1.637
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	2.156	2.179	2.193	2.193	2.200	2.215	2.230	2.252	2.271	2.289	2.304	2.318	2.329
Jet Fuel 9/	0.658	0.683	0.694	0.711	0.729	0.754	0.782	0.805	0.818	0.833	0.848	0.865	0.881
Kerosene	0.016	0.012	0.009	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012
Distillate Fuel Oil	1.187	1.250	1.249	1.255	1.263	1.302	1.341	1.364	1.376	1.390	1.412	1.431	1.445
Residual Fuel Oil	0.296	0.255	0.267	0.265	0.262	0.259	0.255	0.256	0.255	0.256	0.257	0.258	0.258
Petrochemical Feedstocks	0.763	0.760	0.693	0.699	0.718	0.741	0.763	0.778	0.794	0.792	0.791	0.788	0.785
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	1.386	1.493	1.465	1.460	1.380	1.427	1.447	1.452	1.475	1.478	1.473	1.453	1.441
Liquid Fuels and Other Petroleum Subtotal	8.239	8.418	8.393	8.438	8.380	8.509	8.608	8.666	8.720	8.747	8.777	8.784	8.790
Natural Gas	5.212	5.072	5.298	5.246	5.448	5.490	5.517	5.485	5.433	5.426	5.477	5.514	5.494
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.515	0.545	0.508	0.497	0.510	0.519	0.516	0.515	0.512	0.507	0.507	0.507	0.505
Pipeline Natural Gas	0.168	0.166	0.153	0.149	0.155	0.159	0.160	0.162	0.161	0.162	0.164	0.165	0.165
Natural Gas Subtotal	5.895	5.782	5.959	5.891	6.113	6.168	6.192	6.162	6.106	6.094	6.148	6.186	6.163
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	2.524	2.514	2.486	2.468	2.471	2.521	2.605	2.710	2.723	2.731	2.728	2.732	2.756
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.028	0.005	0.000	0.000	0.005	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	2.524	2.514	2.486	2.468	2.471	2.521	2.617	2.738	2.727	2.731	2.728	2.737	2.756
Nuclear Power	0.726	0.723	0.729	0.727	0.724	0.724	0.724	0.727	0.727	0.740	0.740	0.740	0.752
Biofuels Heat and Coproducts	0.001	0.002	0.002	0.028	0.014	0.014	0.014	0.014	0.029	0.047	0.047	0.048	0.053
Renewable Energy 17/	0.445	0.532	0.589	0.621	0.597	0.605	0.613	0.615	0.636	0.645	0.663	0.670	0.683
Electricity Imports	-0.001	-0.003	-0.004	-0.004	-0.003	-0.002	-0.002	-0.002	-0.003	-0.003	-0.002	-0.002	-0.002
Total	17.831	17.970	18.156	18.171	18.298	18.540	18.767	18.921	18.945	19.004	19.103	19.164	19.197
Energy Use & Related Statistics													
Delivered Energy Use	14.175	14.251	14.400	14.450	14.572	14.779	14.965	15.083	15.149	15.210	15.261	15.298	15.316
Total Energy Use	17.831	17.970	18.156	18.171	18.298	18.540	18.767	18.921	18.945	19.004	19.103	19.164	19.197
Population (millions)	33.816	34.251	34.678	35.103	35.527	35.950	36.375	36.804	37.238	37.675	38.116	38.560	39.008
Carbon Dioxide Emissions (million metric tons)	986.39	985.25	1000.39	995.36	1003.62	1018.47	1035.60	1050.88	1051.70	1054.04	1059.71	1064.91	1067.63

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.058	0.059	0.059	0.059	0.060	0.060	0.060	0.060	0.061	0.061	0.062	0.062	0.062	0.7%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.9%
Distillate Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.1%
Liquid Fuels and Other Petroleum Subtotal	0.059	0.059	0.060	0.060	0.060	0.060	0.061	0.061	0.062	0.062	0.062	0.062	0.063	0.7%
Natural Gas	0.374	0.376	0.379	0.379	0.380	0.381	0.382	0.381	0.382	0.382	0.382	0.380	0.379	1.1%
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.1%
Renewable Energy 1/	0.029	0.028	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.026	0.026	0.2%
Electricity	0.743	0.751	0.759	0.764	0.773	0.783	0.794	0.803	0.814	0.825	0.836	0.845	0.856	1.1%
Delivered Energy	1.204	1.215	1.225	1.231	1.241	1.251	1.265	1.272	1.284	1.295	1.307	1.314	1.324	1.0%
Electricity Related Losses	1.438	1.419	1.434	1.400	1.393	1.403	1.414	1.430	1.446	1.459	1.461	1.468	1.491	0.2%
Total	2.642	2.634	2.659	2.631	2.635	2.655	2.679	2.702	2.730	2.754	2.768	2.782	2.816	0.6%
Commercial														
Liquefied Petroleum Gases	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.9%
Motor Gasoline 2/	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.2%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.4%
Distillate Fuel Oil	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.8%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.2%
Liquid Fuels and Other Petroleum Subtotal	0.039	0.040	0.040	0.040	0.040	0.041	0.041	0.042	0.042	0.042	0.042	0.042	0.043	0.6%
Natural Gas	0.303	0.306	0.310	0.314	0.317	0.321	0.324	0.327	0.331	0.335	0.339	0.342	0.346	1.4%
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.703	0.716	0.730	0.744	0.757	0.771	0.786	0.801	0.815	0.830	0.844	0.859	0.875	1.9%
Delivered Energy	1.050	1.066	1.084	1.102	1.120	1.137	1.155	1.174	1.192	1.211	1.229	1.248	1.268	1.7%
Electricity Related Losses	1.359	1.352	1.380	1.362	1.365	1.383	1.399	1.426	1.449	1.468	1.473	1.492	1.523	1.0%
Total	2.409	2.419	2.464	2.464	2.484	2.521	2.555	2.599	2.641	2.679	2.702	2.741	2.792	1.3%
Industrial 4/														
Liquefied Petroleum Gases	1.544	1.516	1.500	1.488	1.479	1.472	1.465	1.460	1.454	1.449	1.444	1.436	1.430	-0.8%
Motor Gasoline 2/	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.057	0.057	0.057	0.057	0.058	0.058	0.1%
Distillate Fuel Oil	0.194	0.193	0.193	0.192	0.192	0.191	0.191	0.192	0.193	0.194	0.194	0.194	0.195	-0.1%
Residual Fuel Oil	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	-0.8%
Petrochemical Feedstocks	0.780	0.771	0.763	0.756	0.752	0.749	0.746	0.744	0.742	0.740	0.738	0.735	0.732	-0.2%
Other Petroleum 5/	1.427	1.418	1.405	1.399	1.407	1.390	1.392	1.400	1.406	1.419	1.431	1.435	1.447	-0.1%
Liquid Fuels and Other Petroleum Subtotal	4.022	3.975	3.938	3.912	3.908	3.879	3.872	3.873	3.873	3.880	3.885	3.879	3.884	-0.4%
Natural Gas	2.675	2.667	2.675	2.684	2.683	2.680	2.677	2.677	2.680	2.678	2.670	2.665	2.661	0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.498	0.492	0.479	0.466	0.462	0.451	0.446	0.439	0.440	0.436	0.430	0.424	0.422	-1.1%
Natural Gas Subtotal	3.173	3.159	3.154	3.150	3.145	3.131	3.123	3.116	3.120	3.115	3.100	3.089	3.083	0.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Industrial Coal	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.089	0.089	0.089	0.089	0.089	-0.1%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.007	0.007	0.000	0.000	0.000	0.007	0.007	0.007	0.007	0.007	31.7%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.090	0.090	0.090	0.097	0.097	0.090	0.090	0.090	0.096	0.096	0.096	0.096	0.096	0.2%
Biofuels Heat and Coproducts	0.053	0.059	0.093	0.178	0.198	0.192	0.196	0.200	0.206	0.207	0.211	0.214	0.206	22.4%
Renewable Energy 7/	0.364	0.368	0.373	0.377	0.382	0.386	0.390	0.395	0.400	0.405	0.409	0.412	0.417	0.9%
Electricity	0.563	0.561	0.560	0.559	0.560	0.559	0.560	0.561	0.563	0.564	0.565	0.565	0.567	0.3%
Delivered Energy	8.267	8.213	8.208	8.273	8.289	8.237	8.231	8.235	8.258	8.267	8.266	8.256	8.252	0.0%
Electricity Related Losses	1.090	1.060	1.059	1.023	1.009	1.002	0.996	0.998	1.000	0.998	0.986	0.982	0.988	-0.5%
Total	9.357	9.273	9.267	9.297	9.298	9.239	9.227	9.234	9.258	9.265	9.253	9.238	9.240	0.0%

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.2%
E85 8/	0.014	0.001	0.089	0.001	0.241	0.263	0.258	0.284	0.277	0.283	0.285	0.279	0.295	38.3%
Motor Gasoline 2/	2.253	2.266	2.164	2.261	2.000	1.978	1.986	1.962	1.977	1.978	1.985	2.003	1.998	-0.2%
Jet Fuel 9/	0.898	0.914	0.930	0.947	0.963	0.980	0.996	1.012	1.028	1.044	1.061	1.077	1.094	2.0%
Distillate Fuel Oil 10/	1.225	1.242	1.261	1.281	1.301	1.322	1.343	1.366	1.389	1.414	1.438	1.462	1.489	1.7%
Residual Fuel Oil	0.231	0.232	0.232	0.233	0.234	0.234	0.235	0.236	0.236	0.237	0.238	0.238	0.239	0.3%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.4%
Other Petroleum 11/	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.2%
Liquid Fuels and Other Petroleum Subtotal	4.653	4.687	4.709	4.755	4.771	4.809	4.851	4.893	4.941	4.990	5.040	5.093	5.148	1.0%
Pipeline Fuel Natural Gas	0.164	0.163	0.158	0.154	0.153	0.152	0.150	0.149	0.150	0.149	0.149	0.147	0.147	-0.5%
Compressed Natural Gas	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	6.3%
Electricity	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	2.1%
Delivered Energy	4.825	4.858	4.876	4.918	4.933	4.970	5.011	5.052	5.100	5.150	5.200	5.251	5.306	1.0%
Electricity Related Losses	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1.2%
Total	4.826	4.859	4.878	4.919	4.934	4.971	5.013	5.053	5.102	5.151	5.201	5.252	5.308	1.0%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	1.614	1.586	1.570	1.558	1.550	1.543	1.536	1.531	1.527	1.522	1.517	1.510	1.504	-0.7%
E85 8/	0.014	0.001	0.089	0.001	0.241	0.263	0.258	0.284	0.277	0.283	0.285	0.279	0.295	38.3%
Motor Gasoline 2/	2.321	2.334	2.232	2.328	2.068	2.046	2.054	2.030	2.046	2.047	2.054	2.072	2.068	-0.2%
Jet Fuel 9/	0.898	0.914	0.930	0.947	0.963	0.980	0.996	1.012	1.028	1.044	1.061	1.077	1.094	2.0%
Kerosene	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	-0.1%
Distillate Fuel Oil	1.437	1.453	1.472	1.492	1.511	1.532	1.554	1.577	1.602	1.627	1.652	1.677	1.704	1.4%
Residual Fuel Oil	0.253	0.254	0.254	0.255	0.255	0.256	0.256	0.257	0.257	0.258	0.259	0.260	0.260	0.2%
Petrochemical Feedstocks	0.780	0.771	0.763	0.756	0.752	0.749	0.746	0.744	0.742	0.740	0.738	0.735	0.732	-0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.4%
Other Petroleum 12/	1.446	1.437	1.424	1.418	1.427	1.410	1.412	1.420	1.426	1.439	1.451	1.456	1.467	-0.1%
Liquid Fuels and Other Petroleum Subtotal	8.774	8.761	8.746	8.767	8.779	8.789	8.825	8.869	8.917	8.974	9.030	9.077	9.137	0.4%
Natural Gas	3.360	3.357	3.372	3.386	3.390	3.390	3.392	3.395	3.402	3.405	3.401	3.397	3.396	0.6%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.498	0.492	0.479	0.466	0.462	0.451	0.446	0.439	0.440	0.436	0.430	0.424	0.422	-1.1%
Pipeline Natural Gas	0.164	0.163	0.158	0.154	0.153	0.152	0.150	0.149	0.150	0.149	0.149	0.147	0.147	-0.5%
Natural Gas Subtotal	4.022	4.012	4.009	4.006	4.005	3.993	3.988	3.983	3.992	3.990	3.979	3.969	3.965	0.3%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.091	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.089	0.089	-0.1%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.007	0.007	0.000	0.000	0.000	0.007	0.007	0.007	0.007	0.007	31.7%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.091	0.090	0.090	0.097	0.097	0.090	0.090	0.090	0.096	0.096	0.096	0.096	0.096	0.2%
Biofuels Heat and Coproducts	0.053	0.059	0.093	0.178	0.198	0.192	0.196	0.200	0.206	0.207	0.211	0.214	0.206	22.4%
Renewable Energy 13/	0.397	0.401	0.405	0.410	0.414	0.418	0.422	0.427	0.432	0.436	0.440	0.443	0.448	0.8%
Electricity	2.010	2.029	2.049	2.068	2.091	2.114	2.141	2.165	2.192	2.219	2.246	2.270	2.299	1.2%
Delivered Energy	15.347	15.352	15.393	15.525	15.583	15.595	15.662	15.734	15.834	15.923	16.002	16.069	16.151	0.5%
Electricity Related Losses	3.888	3.833	3.875	3.786	3.767	3.789	3.811	3.855	3.896	3.926	3.922	3.944	4.004	0.3%
Total	19.234	19.185	19.268	19.311	19.351	19.385	19.473	19.589	19.731	19.848	19.924	20.013	20.155	0.5%

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power 14/														
Distillate Fuel Oil	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.029	0.030	0.030	0.031	0.031	0.031	-0.4%
Residual Fuel Oil	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	-2.1%
Liquid Fuels and Other Petroleum Subtotal	0.031	0.031	0.032	0.032	0.032	0.033	0.034	0.034	0.035	0.035	0.036	0.037	0.036	-0.7%
Natural Gas	1.994	1.941	1.850	1.779	1.749	1.712	1.664	1.654	1.645	1.634	1.598	1.552	1.516	-1.4%
Steam Coal	2.822	2.832	2.902	2.900	2.913	2.978	3.062	3.115	3.176	3.226	3.274	3.370	3.477	1.5%
Nuclear Power	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.2%
Renewable Energy 15/	0.298	0.306	0.387	0.390	0.412	0.428	0.440	0.464	0.481	0.498	0.507	0.505	0.522	4.9%
Electricity Imports	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	1.0%
Total 16/	5.897	5.862	5.924	5.854	5.858	5.903	5.951	6.020	6.088	6.145	6.167	6.214	6.303	0.6%
Total Energy Consumption														
Liquefied Petroleum Gases	1.614	1.586	1.570	1.558	1.550	1.543	1.536	1.531	1.527	1.522	1.517	1.510	1.504	-0.7%
E85 8/	0.014	0.001	0.089	0.001	0.241	0.263	0.258	0.284	0.277	0.283	0.285	0.279	0.295	38.3%
Motor Gasoline 2/	2.321	2.334	2.232	2.328	2.068	2.046	2.054	2.030	2.046	2.047	2.054	2.072	2.068	-0.2%
Jet Fuel 9/	0.898	0.914	0.930	0.947	0.963	0.980	0.996	1.012	1.028	1.044	1.061	1.077	1.094	2.0%
Kerosene	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	-0.1%
Distillate Fuel Oil	1.463	1.479	1.499	1.518	1.538	1.559	1.582	1.606	1.632	1.658	1.683	1.708	1.736	1.4%
Residual Fuel Oil	0.258	0.259	0.259	0.260	0.260	0.261	0.261	0.262	0.263	0.263	0.264	0.265	0.265	0.2%
Petrochemical Feedstocks	0.780	0.771	0.763	0.756	0.752	0.749	0.746	0.744	0.742	0.740	0.738	0.735	0.732	-0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.4%
Other Petroleum 12/	1.446	1.437	1.424	1.418	1.427	1.410	1.412	1.420	1.426	1.439	1.451	1.456	1.467	-0.1%
Liquid Fuels and Other Petroleum Subtotal	8.805	8.792	8.778	8.799	8.811	8.821	8.858	8.903	8.951	9.009	9.066	9.114	9.173	0.4%
Natural Gas	5.354	5.298	5.222	5.165	5.139	5.102	5.056	5.049	5.047	5.039	4.999	4.949	4.913	-0.1%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.498	0.492	0.479	0.466	0.462	0.451	0.446	0.439	0.440	0.436	0.430	0.424	0.422	-1.1%
Pipeline Natural Gas	0.164	0.163	0.158	0.154	0.153	0.152	0.150	0.149	0.150	0.149	0.149	0.147	0.147	-0.5%
Natural Gas Subtotal	6.016	5.953	5.860	5.785	5.754	5.705	5.652	5.637	5.637	5.624	5.578	5.520	5.482	-0.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	2.913	2.923	2.993	2.990	3.003	3.068	3.152	3.205	3.265	3.316	3.364	3.459	3.567	1.5%
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.007	0.007	0.000	0.000	0.000	0.007	0.007	0.007	0.007	0.007	31.7%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	2.913	2.923	2.993	2.997	3.010	3.069	3.152	3.205	3.272	3.323	3.370	3.466	3.573	1.5%
Nuclear Power	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.2%
Biofuels Heat and Coproducts	0.053	0.059	0.093	0.178	0.198	0.192	0.196	0.200	0.206	0.207	0.211	0.214	0.206	22.4%
Renewable Energy 17/	0.695	0.707	0.793	0.800	0.825	0.845	0.862	0.891	0.913	0.934	0.947	0.948	0.970	2.5%
Electricity Imports	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	1.0%
Total	19.234	19.185	19.268	19.311	19.351	19.385	19.473	19.589	19.731	19.848	19.924	20.013	20.155	0.5%
Energy Use & Related Statistics														
Delivered Energy Use	15.347	15.352	15.393	15.525	15.583	15.595	15.662	15.734	15.834	15.923	16.002	16.069	16.151	0.5%
Total Energy Use	19.234	19.185	19.268	19.311	19.351	19.385	19.473	19.589	19.731	19.848	19.924	20.013	20.155	0.5%
Population (millions)	39.460	39.918	40.381	40.852	41.333	41.824	42.326	42.840	43.361	43.889	44.425	44.971	45.523	1.2%
Carbon Dioxide Emissions (million metric tons)	1076.83	1076.64	1075.12	1077.04	1068.53	1072.28	1080.97	1087.61	1098.12	1106.59	1112.83	1122.79	1135.15	0.6%

Table 7. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-West South Central - 07

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.033	0.032	0.032	0.033	0.031	0.031	0.030	0.030	0.030	0.030	0.030	0.030	0.030
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Distillate Fuel Oil	0.005	0.005	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Liquid Fuels and Other Petroleum Subtotal	0.038	0.037	0.036	0.038	0.036	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.034
Natural Gas	0.350	0.346	0.369	0.388	0.369	0.366	0.372	0.378	0.382	0.386	0.390	0.396	0.397
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/ Electricity	0.036 0.292	0.036 0.309	0.036 0.325	0.041 0.331	0.037 0.340	0.035 0.348	0.034 0.355	0.033 0.363	0.033 0.358	0.032 0.361	0.031 0.366	0.031 0.373	0.030 0.378
Delivered Energy	0.716	0.729	0.768	0.798	0.783	0.785	0.796	0.810	0.807	0.815	0.823	0.834	0.841
Electricity Related Losses	0.936	0.931	1.014	1.055	1.084	1.115	1.147	1.168	1.144	1.140	1.137	1.132	1.142
Total	1.653	1.660	1.781	1.853	1.867	1.900	1.944	1.978	1.952	1.954	1.960	1.966	1.983
Commercial													
Liquefied Petroleum Gases	0.007	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Motor Gasoline 2/ Kerosene	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000	0.003 0.000
Distillate Fuel Oil	0.015	0.015	0.015	0.015	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.025	0.024	0.025	0.025	0.022	0.022	0.023	0.023	0.023	0.024	0.024	0.024	0.024
Natural Gas	0.221	0.221	0.228	0.231	0.225	0.227	0.232	0.237	0.241	0.245	0.249	0.253	0.256
Coal	0.011	0.011	0.009	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Renewable Energy 3/ Electricity	0.004 0.299	0.004 0.310	0.004 0.320	0.004 0.318	0.004 0.329	0.004 0.336	0.004 0.344	0.004 0.352	0.004 0.361	0.004 0.371	0.004 0.380	0.004 0.390	0.004 0.398
Delivered Energy	0.559	0.569	0.586	0.589	0.591	0.599	0.613	0.627	0.640	0.654	0.668	0.681	0.693
Electricity Related Losses	0.956	0.933	0.999	1.012	1.050	1.076	1.112	1.135	1.157	1.171	1.182	1.183	1.204
Total	1.515	1.502	1.585	1.601	1.641	1.676	1.725	1.762	1.797	1.825	1.849	1.864	1.897
Industrial 4/													
Liquefied Petroleum Gases	0.015	0.015	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.014	0.014
Motor Gasoline 2/ Distillate Fuel Oil	0.033 0.140	0.034 0.145	0.035 0.146	0.036 0.147	0.035 0.143	0.036 0.145	0.036 0.147	0.036 0.146	0.036 0.144	0.036 0.144	0.036 0.145	0.036 0.145	0.036 0.145
Residual Fuel Oil	0.003	0.003	0.003	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.006	0.006	0.006
Petrochemical Feedstocks	0.011	0.011	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012
Other Petroleum 5/ Liquid Fuels and Other Petroleum Subtotal	0.221 0.423	0.220 0.429	0.214 0.424	0.222 0.435	0.217 0.423	0.218 0.427	0.221 0.433	0.220 0.431	0.216 0.423	0.214 0.422	0.218 0.431	0.222 0.436	0.223 0.436
Natural Gas	0.297	0.293	0.306	0.304	0.259	0.262	0.267	0.266	0.269	0.270	0.264	0.262	0.261
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.190 0.487	0.199 0.492	0.215 0.521	0.214 0.518	0.220 0.479	0.227 0.489	0.229 0.496	0.235 0.501	0.238 0.507	0.242 0.512	0.247 0.512	0.251 0.513	0.253 0.514
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Industrial Coal	0.102	0.101	0.104	0.107	0.103	0.103	0.103	0.101	0.099	0.098	0.098	0.099	0.098
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.064	0.081	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.102	0.101	0.104	0.107	0.103	0.103	0.103	0.148	0.145	0.145	0.162	0.180	0.197
Biofuels Heat and Coproducts	0.002	0.004	0.002	0.018	0.010	0.010	0.012	0.012	0.012	0.012	0.022	0.022	0.022
Renewable Energy 7/ Electricity	0.037 0.246	0.037 0.253	0.038 0.262	0.037 0.270	0.034 0.249	0.035 0.253	0.036 0.256	0.036 0.256	0.036 0.256	0.036 0.256	0.037 0.258	0.037 0.260	0.037 0.260
Delivered Energy	1.297	1.316	1.351	1.385	1.298	1.316	1.381	1.385	1.380	1.383	1.421	1.447	1.467
Electricity Related Losses	0.789	0.762	0.816	0.861	0.795	0.811	0.828	0.826	0.819	0.809	0.801	0.788	0.787
Total	2.086	2.078	2.167	2.246	2.093	2.127	2.209	2.211	2.198	2.193	2.222	2.235	2.253

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.141	1.153	1.161	1.183	1.210	1.238	1.265	1.290	1.313	1.334	1.352	1.369	1.384
Jet Fuel 9/	0.226	0.249	0.253	0.260	0.266	0.273	0.281	0.289	0.293	0.298	0.304	0.310	0.315
Distillate Fuel Oil 10/	0.493	0.509	0.516	0.519	0.529	0.548	0.568	0.582	0.592	0.601	0.612	0.623	0.633
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.014	0.014	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Liquid Fuels and Other Petroleum Subtotal	1.876	1.926	1.945	1.977	2.020	2.074	2.129	2.176	2.213	2.248	2.283	2.318	2.348
Pipeline Fuel Natural Gas	0.092	0.091	0.111	0.108	0.109	0.111	0.112	0.115	0.116	0.118	0.120	0.122	0.123
Compressed Natural Gas	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Delivered Energy	1.970	2.019	2.058	2.088	2.132	2.190	2.246	2.296	2.335	2.372	2.410	2.447	2.478
Electricity Related Losses	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total	1.971	2.020	2.059	2.089	2.133	2.191	2.247	2.297	2.336	2.373	2.411	2.448	2.479
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.055	0.055	0.056	0.057	0.054	0.054	0.054	0.054	0.053	0.053	0.053	0.053	0.053
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.177	1.190	1.199	1.222	1.248	1.276	1.304	1.329	1.352	1.372	1.391	1.409	1.423
Jet Fuel 9/	0.226	0.249	0.253	0.260	0.266	0.273	0.281	0.289	0.293	0.298	0.304	0.310	0.315
Kerosene	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Distillate Fuel Oil	0.653	0.674	0.681	0.686	0.689	0.710	0.732	0.745	0.753	0.762	0.774	0.786	0.796
Residual Fuel Oil	0.003	0.003	0.003	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.006	0.006	0.006
Petrochemical Feedstocks	0.011	0.011	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.234	0.234	0.227	0.235	0.230	0.232	0.235	0.234	0.229	0.228	0.232	0.236	0.237
Liquid Fuels and Other Petroleum Subtotal	2.361	2.416	2.431	2.475	2.500	2.559	2.620	2.665	2.694	2.728	2.772	2.812	2.842
Natural Gas	0.869	0.862	0.905	0.925	0.856	0.859	0.875	0.885	0.897	0.907	0.910	0.917	0.922
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.190	0.199	0.215	0.214	0.220	0.227	0.229	0.235	0.238	0.242	0.247	0.251	0.253
Pipeline Natural Gas	0.092	0.091	0.111	0.108	0.109	0.111	0.112	0.115	0.116	0.118	0.120	0.122	0.123
Natural Gas Subtotal	1.151	1.151	1.231	1.248	1.186	1.197	1.216	1.236	1.251	1.267	1.277	1.290	1.297
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.114	0.113	0.114	0.119	0.115	0.115	0.113	0.113	0.111	0.110	0.110	0.110	0.110
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.064	0.081	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.114	0.113	0.114	0.119	0.115	0.115	0.161	0.159	0.157	0.157	0.174	0.191	0.209
Biofuels Heat and Coproducts	0.002	0.004	0.002	0.018	0.010	0.010	0.012	0.012	0.012	0.012	0.022	0.022	0.022
Renewable Energy 13/	0.076	0.077	0.078	0.082	0.074	0.073	0.073	0.073	0.072	0.072	0.072	0.071	0.071
Electricity	0.838	0.872	0.907	0.919	0.919	0.937	0.955	0.972	0.975	0.989	1.005	1.022	1.037
Delivered Energy	4.542	4.634	4.762	4.860	4.803	4.890	5.036	5.117	5.162	5.224	5.322	5.410	5.478
Electricity Related Losses	2.682	2.627	2.830	2.929	2.931	3.004	3.088	3.130	3.121	3.121	3.121	3.104	3.133
Total	7.224	7.261	7.592	7.789	7.734	7.894	8.125	8.247	8.283	8.345	8.443	8.514	8.611
Electric Power 14/													
Distillate Fuel Oil	0.009	0.009	0.007	0.007	0.007	0.008	0.009	0.008	0.009	0.009	0.009	0.009	0.009
Residual Fuel Oil	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquid Fuels and Other Petroleum Subtotal	0.010	0.010	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.010
Natural Gas	0.538	0.572	0.713	0.791	0.740	0.739	0.700	0.728	0.705	0.705	0.706	0.683	0.638
Steam Coal	2.324	2.206	2.303	2.299	2.330	2.389	2.497	2.503	2.507	2.509	2.490	2.496	2.565
Nuclear Power	0.321	0.321	0.327	0.321	0.321	0.321	0.326	0.326	0.326	0.326	0.326	0.326	0.326
Renewable Energy 15/	0.325	0.390	0.387	0.430	0.451	0.483	0.512	0.537	0.549	0.562	0.594	0.612	0.632
Electricity Imports	0.002	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Total 16/	3.520	3.499	3.737	3.848	3.850	3.940	4.043	4.102	4.096	4.110	4.125	4.126	4.170

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	0.055	0.055	0.056	0.057	0.054	0.054	0.054	0.054	0.053	0.053	0.053	0.053	0.053
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Motor Gasoline 2/	1.177	1.190	1.199	1.222	1.248	1.276	1.304	1.329	1.352	1.372	1.391	1.409	1.423
Jet Fuel 9/	0.226	0.249	0.253	0.260	0.266	0.273	0.281	0.289	0.293	0.298	0.304	0.310	0.315
Kerosene	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Distillate Fuel Oil	0.663	0.683	0.688	0.693	0.696	0.718	0.741	0.754	0.761	0.771	0.782	0.795	0.805
Residual Fuel Oil	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.002	0.006	0.006	0.006
Petrochemical Feedstocks	0.011	0.011	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.234	0.234	0.227	0.235	0.230	0.232	0.235	0.234	0.229	0.228	0.232	0.236	0.237
Liquid Fuels and Other Petroleum Subtotal	2.371	2.426	2.438	2.482	2.508	2.567	2.629	2.674	2.703	2.737	2.781	2.821	2.852
Natural Gas	1.407	1.433	1.619	1.716	1.596	1.597	1.574	1.613	1.602	1.612	1.616	1.599	1.560
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.190	0.199	0.215	0.214	0.220	0.227	0.229	0.235	0.238	0.242	0.247	0.251	0.253
Pipeline Natural Gas	0.092	0.091	0.111	0.108	0.109	0.111	0.112	0.115	0.116	0.118	0.120	0.122	0.123
Natural Gas Subtotal	1.690	1.723	1.944	2.039	1.925	1.936	1.915	1.964	1.956	1.972	1.983	1.973	1.935
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	2.438	2.319	2.417	2.419	2.445	2.504	2.611	2.616	2.618	2.619	2.600	2.607	2.676
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.064	0.081	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	2.438	2.319	2.417	2.419	2.445	2.504	2.658	2.662	2.664	2.666	2.664	2.688	2.774
Nuclear Power	0.321	0.321	0.327	0.321	0.321	0.321	0.326	0.326	0.326	0.326	0.326	0.326	0.326
Biofuels Heat and Coproducts	0.002	0.004	0.002	0.018	0.010	0.010	0.012	0.012	0.012	0.012	0.022	0.022	0.022
Renewable Energy 17/	0.401	0.467	0.465	0.511	0.525	0.556	0.585	0.610	0.622	0.633	0.666	0.684	0.703
Electricity Imports	0.002	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Total	7.224	7.261	7.592	7.789	7.734	7.894	8.125	8.247	8.283	8.345	8.443	8.514	8.611
Energy Use & Related Statistics													
Delivered Energy Use	4.542	4.634	4.762	4.860	4.803	4.890	5.036	5.117	5.162	5.224	5.322	5.410	5.478
Total Energy Use	7.224	7.261	7.592	7.789	7.734	7.894	8.125	8.247	8.283	8.345	8.443	8.514	8.611
Population (millions)	20.129	20.476	20.821	21.169	21.521	21.875	22.234	22.599	22.969	23.345	23.726	24.112	24.502
Carbon Dioxide Emissions (million metric tons)	480.47	473.17	494.11	501.38	499.33	508.45	525.72	531.84	533.93	536.91	540.26	544.71	553.10

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	-0.1%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.3%
Distillate Fuel Oil	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-2.3%
Liquid Fuels and Other Petroleum Subtotal	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	-0.3%
Natural Gas	0.401	0.404	0.408	0.411	0.414	0.416	0.417	0.417	0.417	0.418	0.419	0.417	0.417	0.8%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-1.1%
Renewable Energy 1/	0.030	0.029	0.029	0.029	0.028	0.028	0.028	0.027	0.027	0.027	0.026	0.026	0.026	-1.4%
Electricity	0.384	0.390	0.395	0.400	0.407	0.413	0.421	0.428	0.435	0.443	0.452	0.459	0.467	1.7%
Delivered Energy	0.850	0.858	0.868	0.876	0.885	0.892	0.902	0.907	0.915	0.923	0.932	0.937	0.944	1.1%
Electricity Related Losses	1.162	1.192	1.233	1.275	1.306	1.331	1.363	1.389	1.421	1.462	1.512	1.552	1.591	2.3%
Total	2.012	2.050	2.101	2.151	2.190	2.223	2.264	2.295	2.335	2.385	2.444	2.489	2.536	1.8%
Commercial														
Liquefied Petroleum Gases	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.4%
Motor Gasoline 2/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.8%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.2%
Distillate Fuel Oil	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	-0.5%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Liquid Fuels and Other Petroleum Subtotal	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	-0.1%
Natural Gas	0.259	0.262	0.266	0.271	0.275	0.278	0.280	0.282	0.284	0.286	0.289	0.291	0.293	1.2%
Coal	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.0%
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.407	0.416	0.425	0.434	0.443	0.451	0.459	0.468	0.476	0.486	0.495	0.504	0.514	2.1%
Delivered Energy	0.705	0.716	0.729	0.744	0.756	0.778	0.788	0.799	0.810	0.822	0.834	0.846	0.861	1.7%
Electricity Related Losses	1.231	1.270	1.323	1.382	1.421	1.451	1.486	1.519	1.555	1.601	1.655	1.706	1.752	2.7%
Total	1.936	1.986	2.053	2.126	2.177	2.219	2.264	2.307	2.354	2.411	2.477	2.540	2.598	2.3%
Industrial 4/														
Liquefied Petroleum Gases	0.014	0.019	0.014	0.020	0.020	0.013	0.013	0.013	0.016	0.013	0.013	0.013	0.013	-0.6%
Motor Gasoline 2/	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.039	0.039	0.039	0.040	0.040	0.041	0.7%
Distillate Fuel Oil	0.145	0.145	0.145	0.145	0.145	0.146	0.146	0.148	0.149	0.150	0.151	0.152	0.154	0.2%
Residual Fuel Oil	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-2.4%
Petrochemical Feedstocks	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	-0.5%
Other Petroleum 5/	0.226	0.237	0.249	0.245	0.246	0.253	0.256	0.258	0.258	0.271	0.276	0.281	0.283	1.1%
Liquid Fuels and Other Petroleum Subtotal	0.439	0.451	0.458	0.460	0.461	0.462	0.466	0.470	0.475	0.486	0.492	0.498	0.503	0.7%
Natural Gas	0.261	0.250	0.249	0.252	0.254	0.255	0.257	0.259	0.261	0.262	0.263	0.264	0.265	-0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.254	0.255	0.245	0.237	0.242	0.244	0.247	0.248	0.250	0.252	0.255	0.256	0.256	1.1%
Natural Gas Subtotal	0.515	0.506	0.494	0.489	0.496	0.500	0.504	0.507	0.511	0.514	0.518	0.520	0.522	0.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Industrial Coal	0.098	0.098	0.098	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.096	0.096	-0.2%
Coal-to-Liquids Heat and Power	0.146	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.244	0.255	0.256	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.254	0.254	3.9%
Biofuels Heat and Coproducts	0.033	0.033	0.033	0.033	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	9.0%
Renewable Energy 7/	0.037	0.037	0.038	0.038	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.041	0.041	0.4%
Electricity	0.261	0.259	0.257	0.258	0.258	0.258	0.259	0.259	0.260	0.261	0.261	0.262	0.263	0.2%
Delivered Energy	1.528	1.541	1.536	1.533	1.542	1.547	1.555	1.563	1.573	1.589	1.600	1.608	1.616	0.9%
Electricity Related Losses	0.789	0.793	0.802	0.820	0.827	0.830	0.835	0.841	0.847	0.860	0.874	0.887	0.897	0.7%
Total	2.317	2.334	2.339	2.353	2.369	2.377	2.390	2.404	2.420	2.449	2.474	2.495	2.513	0.8%

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.2%
E85 8/	0.000	0.000	0.000	0.044	0.060	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.5%
Motor Gasoline 2/	1.395	1.400	1.402	1.362	1.351	1.422	1.429	1.438	1.448	1.459	1.471	1.483	1.497	1.1%
Jet Fuel 9/	0.321	0.327	0.333	0.339	0.345	0.351	0.357	0.363	0.369	0.375	0.381	0.387	0.393	1.9%
Distillate Fuel Oil 10/	0.643	0.655	0.667	0.680	0.693	0.707	0.721	0.736	0.751	0.767	0.783	0.799	0.816	2.0%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.4%
Other Petroleum 11/	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.5%
Liquid Fuels and Other Petroleum Subtotal	2.375	2.398	2.419	2.441	2.465	2.497	2.525	2.554	2.586	2.619	2.653	2.688	2.725	1.5%
Pipeline Fuel Natural Gas	0.123	0.124	0.119	0.114	0.116	0.116	0.117	0.117	0.118	0.119	0.120	0.120	0.120	1.2%
Compressed Natural Gas	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	7.4%
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.1%
Delivered Energy	2.506	2.530	2.546	2.564	2.590	2.622	2.651	2.681	2.713	2.747	2.783	2.818	2.856	1.5%
Electricity Related Losses	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	2.6%
Total	2.507	2.531	2.547	2.565	2.591	2.623	2.652	2.682	2.715	2.749	2.784	2.819	2.857	1.5%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.053	0.058	0.053	0.059	0.059	0.053	0.053	0.053	0.056	0.053	0.053	0.053	0.053	-0.2%
E85 8/	0.000	0.000	0.000	0.044	0.060	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.5%
Motor Gasoline 2/	1.434	1.440	1.442	1.402	1.392	1.462	1.470	1.480	1.490	1.501	1.514	1.527	1.541	1.1%
Jet Fuel 9/	0.321	0.327	0.333	0.339	0.345	0.351	0.357	0.363	0.369	0.375	0.381	0.387	0.393	1.9%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.5%
Distillate Fuel Oil	0.806	0.817	0.830	0.843	0.855	0.869	0.884	0.900	0.917	0.934	0.951	0.968	0.986	1.6%
Residual Fuel Oil	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-2.3%
Petrochemical Feedstocks	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	-0.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.4%
Other Petroleum 12/	0.240	0.251	0.264	0.259	0.260	0.268	0.270	0.273	0.273	0.286	0.291	0.296	0.299	1.0%
Liquid Fuels and Other Petroleum Subtotal	2.872	2.907	2.936	2.959	2.985	3.017	3.049	3.083	3.119	3.163	3.203	3.244	3.286	1.3%
Natural Gas	0.928	0.924	0.932	0.943	0.952	0.958	0.963	0.966	0.971	0.975	0.980	0.982	0.985	0.6%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.254	0.255	0.245	0.237	0.242	0.244	0.247	0.248	0.250	0.252	0.255	0.256	0.256	1.1%
Pipeline Natural Gas	0.123	0.124	0.119	0.114	0.116	0.116	0.117	0.117	0.119	0.119	0.120	0.120	0.120	1.2%
Natural Gas Subtotal	1.305	1.303	1.296	1.294	1.310	1.318	1.327	1.331	1.340	1.347	1.355	1.358	1.362	0.7%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.110	0.110	0.109	0.109	0.109	0.109	0.109	0.109	0.108	0.108	0.108	0.108	0.108	-0.2%
Coal-to-Liquids Heat and Power	0.146	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.255	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.266	0.266	0.266	3.6%
Biofuels Heat and Coproducts	0.033	0.033	0.033	0.033	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	9.0%
Renewable Energy 13/	0.071	0.071	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.071	0.070	0.071	-0.4%
Electricity	1.053	1.066	1.078	1.092	1.107	1.123	1.139	1.155	1.172	1.190	1.209	1.226	1.245	1.5%
Delivered Energy	5.589	5.646	5.680	5.716	5.773	5.829	5.885	5.939	6.000	6.069	6.137	6.197	6.262	1.3%
Electricity Related Losses	3.183	3.256	3.360	3.479	3.554	3.614	3.686	3.750	3.824	3.925	4.042	4.147	4.241	2.0%
Total	8.772	8.902	9.040	9.196	9.327	9.442	9.571	9.689	9.824	9.994	10.179	10.344	10.504	1.6%
Electric Power 14/														
Distillate Fuel Oil	0.011	0.011	0.013	0.015	0.016	0.017	0.018	0.019	0.021	0.022	0.024	0.025	0.027	4.5%
Residual Fuel Oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-4.4%
Liquid Fuels and Other Petroleum Subtotal	0.011	0.012	0.013	0.015	0.016	0.017	0.018	0.020	0.021	0.022	0.024	0.025	0.027	4.3%
Natural Gas	0.601	0.566	0.564	0.581	0.530	0.461	0.417	0.355	0.312	0.292	0.247	0.242	0.232	-3.7%
Steam Coal	2.652	2.734	2.807	2.908	3.028	3.145	3.250	3.362	3.483	3.608	3.728	3.835	3.942	2.4%
Nuclear Power	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.1%
Renewable Energy 15/	0.646	0.683	0.728	0.742	0.763	0.788	0.814	0.842	0.855	0.867	0.927	0.945	0.960	3.8%
Electricity Imports	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	1.0%
Total 16/	4.236	4.321	4.437	4.571	4.662	4.737	4.825	4.904	4.996	5.115	5.251	5.373	5.486	1.9%

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	0.053	0.058	0.053	0.059	0.059	0.053	0.053	0.053	0.056	0.053	0.053	0.053	0.053	-0.2%
E85 8/	0.000	0.000	0.000	0.044	0.060	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.5%
Motor Gasoline 2/	1.434	1.440	1.442	1.402	1.392	1.462	1.470	1.480	1.490	1.501	1.514	1.527	1.541	1.1%
Jet Fuel 9/	0.321	0.327	0.333	0.339	0.345	0.351	0.357	0.363	0.369	0.375	0.381	0.387	0.393	1.9%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.5%
Distillate Fuel Oil	0.817	0.829	0.842	0.857	0.871	0.886	0.902	0.919	0.937	0.956	0.974	0.993	1.013	1.7%
Residual Fuel Oil	0.006	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-2.6%
Petrochemical Feedstocks	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	-0.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.4%
Other Petroleum 12/	0.240	0.251	0.264	0.259	0.260	0.268	0.270	0.273	0.273	0.286	0.291	0.296	0.299	1.0%
Liquid Fuels and Other Petroleum Subtotal	2.883	2.919	2.948	2.974	3.001	3.035	3.067	3.102	3.140	3.185	3.227	3.269	3.313	1.3%
Natural Gas	1.529	1.490	1.496	1.524	1.482	1.418	1.380	1.322	1.283	1.267	1.227	1.224	1.217	-0.7%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.254	0.255	0.245	0.237	0.242	0.244	0.247	0.248	0.250	0.252	0.255	0.256	0.256	1.1%
Pipeline Natural Gas	0.123	0.124	0.119	0.114	0.116	0.116	0.117	0.117	0.118	0.119	0.120	0.120	0.120	1.2%
Natural Gas Subtotal	1.906	1.870	1.860	1.875	1.839	1.779	1.744	1.687	1.652	1.638	1.602	1.600	1.594	-0.3%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	2.762	2.844	2.916	3.017	3.137	3.254	3.359	3.471	3.591	3.717	3.837	3.943	4.050	2.4%
Coal-to-Liquids Heat and Power	0.146	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	2.907	3.001	3.074	3.175	3.295	3.412	3.517	3.629	3.749	3.875	3.995	4.101	4.208	2.5%
Nuclear Power	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.1%
Biofuels Heat and Coproducts	0.033	0.033	0.033	0.033	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	9.0%
Renewable Energy 17/	0.717	0.754	0.798	0.813	0.833	0.858	0.884	0.912	0.925	0.938	0.997	1.015	1.030	3.3%
Electricity Imports	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	1.0%
Total	8.772	8.902	9.040	9.196	9.327	9.442	9.571	9.689	9.824	9.994	10.179	10.344	10.504	1.6%
Energy Use & Related Statistics														
Delivered Energy Use	5.589	5.646	5.680	5.716	5.773	5.829	5.885	5.939	6.000	6.069	6.137	6.197	6.262	1.3%
Total Energy Use	8.772	8.902	9.040	9.196	9.327	9.442	9.571	9.689	9.824	9.994	10.179	10.344	10.504	1.6%
Population (millions)	24.898	25.298	25.704	26.115	26.533	26.957	27.388	27.825	28.266	28.712	29.161	29.616	30.074	1.6%
Carbon Dioxide Emissions (million metric tons)	566.46	576.17	584.88	594.89	605.65	618.46	629.01	638.99	651.11	665.50	677.83	690.54	703.43	1.7%

Table 8. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Mountain - 08

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.030	0.031	0.031	0.032	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033
Kerosene	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Distillate Fuel Oil	0.023	0.025	0.024	0.025	0.023	0.023	0.024	0.024	0.024	0.024	0.023	0.023	0.023
Liquid Fuels and Other Petroleum Subtotal	0.056	0.060	0.058	0.061	0.057	0.057	0.057	0.058	0.058	0.058	0.058	0.059	0.059
Natural Gas	0.636	0.647	0.655	0.674	0.682	0.683	0.694	0.706	0.714	0.724	0.733	0.744	0.750
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/ Electricity	0.056	0.062	0.062	0.068	0.061	0.059	0.059	0.059	0.058	0.058	0.058	0.058	0.058
Delivered Energy	0.486	0.507	0.508	0.522	0.529	0.535	0.540	0.546	0.527	0.525	0.524	0.528	0.529
Electricity Related Losses	1.233	1.277	1.284	1.326	1.330	1.335	1.351	1.368	1.358	1.365	1.375	1.390	1.397
Electricity Related Losses	0.724	0.820	0.809	0.809	0.836	0.848	0.862	0.859	0.826	0.824	0.837	0.852	0.854
Total	1.958	2.097	2.092	2.135	2.166	2.183	2.213	2.227	2.183	2.189	2.211	2.242	2.251
Commercial													
Liquefied Petroleum Gases	0.006	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Motor Gasoline 2/ Kerosene	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Distillate Fuel Oil	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Residual Fuel Oil	0.026	0.026	0.026	0.026	0.022	0.022	0.023	0.023	0.023	0.023	0.024	0.024	0.024
Liquid Fuels and Other Petroleum Subtotal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Natural Gas	0.036	0.034	0.035	0.035	0.031	0.032	0.032	0.032	0.033	0.033	0.033	0.033	0.033
Coal	0.339	0.354	0.361	0.376	0.348	0.351	0.358	0.365	0.371	0.377	0.383	0.389	0.394
Renewable Energy 3/ Electricity	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Delivered Energy	0.024	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
Electricity Related Losses	0.570	0.588	0.600	0.597	0.614	0.623	0.635	0.647	0.660	0.674	0.687	0.701	0.713
Electricity Related Losses	0.976	1.008	1.027	1.041	1.024	1.038	1.057	1.076	1.096	1.116	1.136	1.155	1.173
Electricity Related Losses	0.851	0.951	0.955	0.926	0.969	0.986	1.014	1.019	1.035	1.058	1.096	1.132	1.152
Total	1.827	1.960	1.982	1.967	1.994	2.024	2.071	2.095	2.130	2.174	2.232	2.287	2.324
Industrial 4/													
Liquefied Petroleum Gases	0.024	0.021	0.022	0.022	0.056	0.048	0.049	0.047	0.046	0.044	0.043	0.039	0.039
Motor Gasoline 2/ Distillate Fuel Oil	0.043	0.044	0.045	0.047	0.046	0.046	0.047	0.047	0.046	0.046	0.047	0.047	0.047
Residual Fuel Oil	0.132	0.137	0.137	0.139	0.133	0.135	0.137	0.136	0.134	0.134	0.135	0.135	0.135
Petrochemical Feedstocks	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 5/ Liquid Fuels and Other Petroleum Subtotal	0.037	0.038	0.035	0.034	0.035	0.037	0.038	0.039	0.040	0.040	0.040	0.040	0.039
Natural Gas	0.704	0.707	0.683	0.714	0.728	0.728	0.740	0.730	0.715	0.715	0.729	0.734	0.738
Natural-Gas-to-Liquids Heat and Power	0.944	0.952	0.927	0.961	0.997	0.993	1.010	0.999	0.981	0.979	0.993	0.995	0.998
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.976	0.938	0.902	0.878	0.934	0.958	0.971	0.984	1.002	1.007	0.997	0.998	0.995
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Industrial Coal	0.354	0.330	0.370	0.367	0.368	0.370	0.370	0.371	0.372	0.372	0.373	0.375	0.376
Coal-to-Liquids Heat and Power	1.330	1.268	1.272	1.245	1.302	1.327	1.342	1.355	1.374	1.380	1.370	1.373	1.371
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.050	0.049	0.051	0.052	0.051	0.051	0.051	0.050	0.049	0.049	0.049	0.049	0.049
Biofuels Heat and Coproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 7/ Electricity	0.001	0.002	0.003	0.031	0.020	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Delivered Energy	0.117	0.119	0.120	0.118	0.107	0.111	0.114	0.114	0.114	0.115	0.116	0.117	0.117
Electricity Related Losses	0.307	0.298	0.295	0.285	0.311	0.315	0.319	0.319	0.318	0.320	0.321	0.323	0.324
Electricity Related Losses	2.749	2.688	2.667	2.691	2.789	2.820	2.857	2.860	2.859	2.865	2.871	2.879	2.881
Electricity Related Losses	0.458	0.482	0.470	0.442	0.491	0.499	0.509	0.502	0.499	0.502	0.513	0.522	0.523
Total	3.207	3.170	3.137	3.134	3.280	3.319	3.366	3.363	3.357	3.367	3.383	3.400	3.404

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.002	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
E85 8/	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.038	0.079	0.176	0.001
Motor Gasoline 2/	2.544	2.570	2.588	2.571	2.570	2.575	2.591	2.605	2.583	2.554	2.475	2.634	
Jet Fuel 9/	0.868	0.891	0.898	0.920	0.943	0.971	1.003	1.031	1.046	1.064	1.083	1.103	1.123
Distillate Fuel Oil 10/	0.737	0.761	0.771	0.774	0.785	0.807	0.830	0.847	0.859	0.870	0.883	0.898	0.910
Residual Fuel Oil	0.264	0.265	0.283	0.278	0.275	0.271	0.268	0.268	0.269	0.270	0.270	0.271	0.272
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.030	0.029	0.028	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.029	0.029	0.029
Liquid Fuels and Other Petroleum Subtotal	4.445	4.520	4.571	4.574	4.604	4.656	4.708	4.768	4.810	4.854	4.900	4.954	4.970
Pipeline Fuel Natural Gas	0.030	0.029	0.032	0.029	0.028	0.028	0.027	0.027	0.027	0.027	0.028	0.028	0.029
Compressed Natural Gas	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008
Electricity	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Delivered Energy	4.479	4.554	4.609	4.609	4.639	4.691	4.743	4.804	4.845	4.890	4.938	4.993	5.009
Electricity Related Losses	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
Total	4.483	4.558	4.613	4.613	4.643	4.696	4.747	4.808	4.850	4.895	4.942	4.997	5.014
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	0.062	0.061	0.062	0.063	0.095	0.087	0.088	0.087	0.086	0.084	0.083	0.080	0.080
E85 8/	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.038	0.079	0.176	0.001
Motor Gasoline 2/	2.590	2.617	2.636	2.620	2.618	2.624	2.625	2.641	2.654	2.631	2.603	2.525	2.683
Jet Fuel 9/	0.868	0.891	0.898	0.920	0.943	0.971	1.003	1.031	1.046	1.064	1.083	1.103	1.123
Kerosene	0.005	0.005	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Distillate Fuel Oil	0.918	0.948	0.958	0.964	0.963	0.987	1.013	1.030	1.039	1.051	1.065	1.081	1.093
Residual Fuel Oil	0.269	0.270	0.288	0.283	0.275	0.271	0.268	0.269	0.269	0.270	0.271	0.271	0.272
Petrochemical Feedstocks	0.037	0.038	0.035	0.034	0.035	0.037	0.038	0.039	0.040	0.040	0.040	0.040	0.039
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.732	0.735	0.710	0.741	0.755	0.755	0.767	0.758	0.743	0.743	0.757	0.762	0.766
Liquid Fuels and Other Petroleum Subtotal	5.480	5.566	5.591	5.631	5.688	5.737	5.808	5.858	5.881	5.924	5.984	6.042	6.060
Natural Gas	1.953	1.942	1.921	1.932	1.967	1.996	2.028	2.060	2.094	2.115	2.120	2.139	2.147
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.354	0.330	0.370	0.367	0.368	0.370	0.370	0.371	0.372	0.372	0.373	0.375	0.376
Pipeline Natural Gas	0.030	0.029	0.032	0.029	0.028	0.028	0.027	0.027	0.027	0.027	0.028	0.028	0.029
Natural Gas Subtotal	2.337	2.302	2.323	2.327	2.364	2.394	2.425	2.458	2.492	2.514	2.521	2.541	2.551
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.057	0.056	0.056	0.059	0.058	0.058	0.058	0.057	0.056	0.056	0.056	0.056	0.056
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.057	0.056	0.056	0.059	0.058	0.058	0.058	0.057	0.056	0.056	0.056	0.056	0.056
Biofuels Heat and Coproducts	0.001	0.002	0.003	0.031	0.020	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Renewable Energy 13/	0.197	0.207	0.208	0.212	0.195	0.196	0.198	0.199	0.199	0.199	0.200	0.201	0.201
Electricity	1.366	1.395	1.405	1.407	1.457	1.477	1.496	1.514	1.508	1.521	1.536	1.554	1.570
Delivered Energy	9.437	9.528	9.587	9.667	9.783	9.885	10.008	10.108	10.157	10.236	10.319	10.416	10.459
Electricity Related Losses	2.037	2.258	2.238	2.182	2.300	2.337	2.389	2.384	2.364	2.388	2.450	2.510	2.534
Total	11.475	11.785	11.824	11.850	12.083	12.222	12.398	12.493	12.521	12.624	12.768	12.926	12.993
Electric Power 14/													
Distillate Fuel Oil	0.011	0.010	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009
Residual Fuel Oil	0.112	0.103	0.085	0.085	0.088	0.089	0.090	0.091	0.091	0.092	0.093	0.094	0.095
Liquid Fuels and Other Petroleum Subtotal	0.123	0.113	0.093	0.093	0.096	0.097	0.099	0.100	0.099	0.100	0.101	0.102	0.103
Natural Gas	0.906	0.992	1.081	0.921	0.941	0.904	0.898	0.902	0.873	0.901	0.966	1.045	1.083
Steam Coal	0.190	0.137	0.162	0.163	0.166	0.169	0.172	0.175	0.177	0.180	0.183	0.184	0.187
Nuclear Power	0.388	0.449	0.454	0.454	0.453	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454
Renewable Energy 15/	1.778	1.973	1.875	1.980	2.118	2.197	2.269	2.279	2.281	2.284	2.284	2.285	2.284
Electricity Imports	0.008	-0.023	-0.031	-0.032	-0.027	-0.018	-0.020	-0.020	-0.024	-0.021	-0.013	-0.016	-0.019
Total 16/	3.403	3.653	3.643	3.589	3.758	3.814	3.886	3.899	3.871	3.908	3.986	4.065	4.104

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	0.062	0.061	0.062	0.063	0.095	0.087	0.088	0.087	0.086	0.084	0.083	0.080	0.080
E85 8/	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.038	0.079	0.176	0.001
Motor Gasoline 2/	2.590	2.617	2.636	2.620	2.618	2.624	2.625	2.641	2.654	2.631	2.603	2.525	2.683
Jet Fuel 9/	0.868	0.891	0.898	0.920	0.943	0.971	1.003	1.031	1.046	1.064	1.083	1.103	1.123
Kerosene	0.005	0.005	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Distillate Fuel Oil	0.929	0.958	0.966	0.972	0.971	0.996	1.022	1.038	1.048	1.059	1.074	1.089	1.101
Residual Fuel Oil	0.381	0.374	0.372	0.368	0.363	0.360	0.358	0.360	0.360	0.361	0.363	0.365	0.366
Petrochemical Feedstocks	0.037	0.038	0.035	0.034	0.035	0.037	0.038	0.039	0.040	0.040	0.040	0.040	0.039
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.732	0.735	0.710	0.741	0.755	0.755	0.767	0.758	0.743	0.743	0.757	0.762	0.766
Liquid Fuels and Other Petroleum Subtotal	5.603	5.679	5.684	5.724	5.784	5.834	5.906	5.957	5.980	6.024	6.086	6.144	6.164
Natural Gas	2.859	2.934	3.003	2.853	2.909	2.900	2.927	2.962	2.967	3.016	3.086	3.184	3.230
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.354	0.330	0.370	0.367	0.368	0.370	0.370	0.371	0.372	0.372	0.373	0.375	0.376
Pipeline Natural Gas	0.030	0.029	0.032	0.029	0.028	0.028	0.027	0.027	0.027	0.027	0.028	0.028	0.029
Natural Gas Subtotal	3.243	3.293	3.405	3.248	3.305	3.298	3.324	3.360	3.365	3.416	3.487	3.587	3.634
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.247	0.193	0.218	0.222	0.224	0.227	0.230	0.232	0.233	0.236	0.239	0.239	0.243
Coal-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.247	0.193	0.218	0.222	0.224	0.227	0.230	0.232	0.233	0.236	0.239	0.239	0.243
Nuclear Power	0.388	0.449	0.454	0.454	0.453	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454
Biofuels Heat and Coproducts	0.001	0.002	0.003	0.031	0.020	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Renewable Energy 17/	1.975	2.180	2.082	2.192	2.312	2.393	2.467	2.478	2.479	2.483	2.484	2.485	2.485
Electricity Imports	0.008	-0.022	-0.031	-0.032	-0.027	-0.018	-0.016	-0.020	-0.024	-0.021	-0.013	-0.016	-0.019
Total	11.475	11.785	11.824	11.850	12.083	12.222	12.398	12.493	12.521	12.624	12.768	12.926	12.993
Energy Use & Related Statistics													
Delivered Energy Use	9.437	9.528	9.587	9.667	9.783	9.885	10.008	10.108	10.157	10.236	10.319	10.416	10.459
Total Energy Use	11.475	11.785	11.824	11.850	12.083	12.222	12.398	12.493	12.521	12.624	12.768	12.926	12.993
Population (millions)	48.073	48.617	49.149	49.681	50.213	50.748	51.287	51.836	52.392	52.955	53.522	54.094	54.668
Carbon Dioxide Emissions (million metric tons)	587.28	587.42	592.26	585.42	590.80	592.10	597.96	603.52	605.55	609.53	615.87	621.32	632.97

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.037	0.037	0.7%
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-2.7%
Distillate Fuel Oil	0.023	0.023	0.023	0.022	0.022	0.022	0.022	0.021	0.021	0.021	0.020	0.020	0.020	-0.9%
Liquid Fuels and Other Petroleum Subtotal	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.058	-0.1%
Natural Gas	0.758	0.765	0.775	0.781	0.789	0.794	0.801	0.802	0.806	0.809	0.813	0.813	0.814	1.0%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.7%
Renewable Energy 1/ Electricity	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	-0.3%
Delivered Energy	1.408	1.418	1.429	1.436	1.447	1.457	1.470	1.475	1.484	1.493	1.505	1.508	1.515	0.7%
Electricity Related Losses	0.850	0.843	0.810	0.793	0.783	0.778	0.773	0.759	0.754	0.745	0.734	0.716	0.708	-0.6%
Total	2.258	2.261	2.239	2.229	2.230	2.235	2.243	2.234	2.238	2.238	2.239	2.225	2.223	0.2%
Commercial														
Liquefied Petroleum Gases	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.8%
Motor Gasoline 2/ Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.3%
Distillate Fuel Oil	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.1%
Residual Fuel Oil	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	-0.3%
Liquid Fuels and Other Petroleum Subtotal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Natural Gas	0.033	0.033	0.033	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.0%
Coal	0.398	0.403	0.408	0.414	0.420	0.424	0.428	0.432	0.436	0.440	0.445	0.449	0.453	1.0%
Renewable Energy 3/ Electricity	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.1%
Delivered Energy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.0%
Electricity Related Losses	0.726	0.739	0.752	0.765	0.779	0.792	0.806	0.819	0.832	0.846	0.859	0.872	0.885	1.7%
Total	1.190	1.207	1.225	1.245	1.264	1.282	1.300	1.317	1.335	1.352	1.370	1.387	1.404	1.4%
Electricity Related Losses	1.160	1.164	1.136	1.130	1.126	1.130	1.128	1.119	1.119	1.111	1.099	1.081	1.073	0.5%
Total	2.350	2.371	2.361	2.375	2.391	2.413	2.428	2.436	2.453	2.464	2.469	2.468	2.478	1.0%
Industrial 4/														
Liquefied Petroleum Gases	0.037	0.034	0.033	0.023	0.022	0.022	0.015	0.014	0.015	0.015	0.016	0.018	0.018	-0.7%
Motor Gasoline 2/ Distillate Fuel Oil	0.047	0.047	0.048	0.048	0.048	0.049	0.049	0.050	0.051	0.051	0.051	0.052	0.053	0.7%
Residual Fuel Oil	0.135	0.135	0.135	0.135	0.135	0.136	0.136	0.138	0.139	0.140	0.141	0.142	0.143	0.2%
Petrochemical Feedstocks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-18.0%
Other Petroleum 5/ Liquid Fuels and Other Petroleum Subtotal	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.035	0.034	0.034	-0.5%
Natural Gas	0.735	0.734	0.737	0.739	0.740	0.734	0.737	0.738	0.735	0.736	0.739	0.739	0.755	0.3%
Natural-Gas-to-Liquids Heat and Power	0.993	0.989	0.990	0.983	0.983	0.977	0.973	0.975	0.975	0.977	0.982	0.985	1.003	0.2%
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.000	1.004	1.007	1.025	1.030	1.042	1.055	1.062	1.073	1.075	1.073	1.078	1.075	0.6%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Industrial Coal	0.377	0.378	0.433	0.489	0.490	0.491	0.492	0.493	0.494	0.495	0.496	0.496	0.496	1.7%
Coal-to-Liquids Heat and Power	1.377	1.381	1.441	1.514	1.520	1.534	1.548	1.555	1.567	1.570	1.569	1.574	1.571	0.9%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.054	0.065	0.076	0.093	0.093	0.125	0.125	0.124	0.148	0.173	0.236	0.278	0.278	7.5%
Biofuels Heat and Coproducts	0.027	0.027	0.047	0.056	0.060	0.060	0.054	0.056	0.055	0.055	0.055	0.055	0.055	15.4%
Renewable Energy 7/ Electricity	0.118	0.118	0.119	0.120	0.121	0.121	0.122	0.124	0.125	0.126	0.127	0.128	0.129	0.4%
Delivered Energy	0.325	0.324	0.325	0.326	0.326	0.326	0.327	0.328	0.329	0.329	0.330	0.331	0.332	0.5%
Electricity Related Losses	2.894	2.904	2.997	3.091	3.102	3.143	3.150	3.161	3.199	3.230	3.300	3.352	3.368	0.9%
Total	0.519	0.511	0.491	0.481	0.471	0.466	0.458	0.448	0.442	0.433	0.422	0.410	0.402	-0.8%
Electricity Related Losses	3.413	3.415	3.487	3.572	3.573	3.609	3.609	3.609	3.641	3.663	3.722	3.762	3.770	0.7%

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-2.2%
E85 8/	0.001	0.269	0.334	0.364	0.379	0.382	0.345	0.371	0.338	0.334	0.307	0.271	0.258	34.7%
Motor Gasoline 2/	2.632	2.386	2.315	2.284	2.268	2.263	2.297	2.278	2.314	2.327	2.361	2.405	2.432	-0.2%
Jet Fuel 9/	1.142	1.162	1.182	1.201	1.221	1.240	1.259	1.278	1.297	1.316	1.335	1.354	1.373	1.8%
Distillate Fuel Oil 10/	0.924	0.939	0.956	0.973	0.990	1.009	1.029	1.049	1.070	1.093	1.115	1.138	1.162	1.8%
Residual Fuel Oil	0.272	0.273	0.274	0.274	0.275	0.275	0.276	0.276	0.277	0.278	0.278	0.278	0.279	0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	45.0%
Other Petroleum 11/	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.030	0.1%
Liquid Fuels and Other Petroleum Subtotal	5.003	5.060	5.091	5.128	5.164	5.201	5.238	5.285	5.328	5.378	5.427	5.477	5.535	0.8%
Pipeline Fuel Natural Gas	0.029	0.029	0.069	0.110	0.110	0.110	0.110	0.109	0.110	0.109	0.109	0.109	0.109	5.7%
Compressed Natural Gas	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	5.4%
Electricity	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	1.2%
Delivered Energy	5.042	5.100	5.172	5.249	5.285	5.323	5.360	5.407	5.451	5.500	5.550	5.600	5.658	0.9%
Electricity Related Losses	0.005	0.005	0.005	0.005	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Total	5.047	5.104	5.176	5.254	5.290	5.327	5.364	5.411	5.455	5.505	5.554	5.604	5.662	0.9%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	0.079	0.076	0.075	0.065	0.065	0.065	0.058	0.058	0.059	0.059	0.061	0.063	0.063	0.1%
E85 8/	0.001	0.269	0.334	0.364	0.379	0.382	0.345	0.371	0.338	0.334	0.307	0.271	0.258	34.7%
Motor Gasoline 2/	2.682	2.436	2.365	2.335	2.319	2.314	2.349	2.331	2.367	2.380	2.415	2.459	2.487	-0.2%
Jet Fuel 9/	1.142	1.162	1.182	1.201	1.221	1.240	1.259	1.278	1.297	1.316	1.335	1.354	1.373	1.8%
Kerosene	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-1.8%
Distillate Fuel Oil	1.106	1.121	1.138	1.155	1.172	1.191	1.211	1.232	1.254	1.277	1.300	1.324	1.349	1.5%
Residual Fuel Oil	0.273	0.273	0.274	0.274	0.275	0.275	0.276	0.276	0.277	0.278	0.278	0.278	0.279	0.1%
Petrochemical Feedstocks	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.035	0.034	0.034	-0.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	45.0%
Other Petroleum 12/	0.763	0.762	0.765	0.767	0.769	0.763	0.766	0.766	0.764	0.765	0.768	0.768	0.784	0.3%
Liquid Fuels and Other Petroleum Subtotal	6.088	6.141	6.173	6.203	6.239	6.271	6.304	6.352	6.396	6.447	6.502	6.555	6.630	0.7%
Natural Gas	2.164	2.180	2.198	2.228	2.247	2.270	2.293	2.305	2.325	2.334	2.341	2.350	2.352	0.8%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.377	0.378	0.433	0.489	0.490	0.491	0.492	0.493	0.494	0.495	0.496	0.496	0.496	1.7%
Pipeline Natural Gas	0.029	0.029	0.069	0.110	0.110	0.110	0.110	0.109	0.110	0.109	0.109	0.109	0.109	5.7%
Natural Gas Subtotal	2.569	2.586	2.700	2.828	2.847	2.871	2.895	2.908	2.928	2.938	2.946	2.955	2.957	1.0%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.054	-0.1%
Coal-to-Liquids Heat and Power	0.006	0.016	0.027	0.045	0.045	0.076	0.077	0.076	0.100	0.125	0.188	0.230	0.230	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.061	0.072	0.082	0.100	0.099	0.131	0.132	0.131	0.155	0.179	0.243	0.285	0.285	7.0%
Biofuels Heat and Coproducts	0.027	0.027	0.047	0.056	0.060	0.060	0.054	0.056	0.055	0.055	0.055	0.055	0.055	15.4%
Renewable Energy 13/	0.202	0.202	0.203	0.204	0.205	0.205	0.207	0.208	0.209	0.210	0.211	0.212	0.214	0.1%
Electricity	1.586	1.602	1.616	1.631	1.648	1.667	1.687	1.705	1.725	1.745	1.766	1.785	1.805	1.1%
Delivered Energy	10.534	10.629	10.822	11.021	11.098	11.205	11.280	11.359	11.469	11.576	11.724	11.847	11.946	0.9%
Electricity Related Losses	2.533	2.523	2.441	2.408	2.384	2.378	2.364	2.331	2.319	2.293	2.260	2.211	2.188	-0.1%
Total	13.067	13.152	13.263	13.429	13.483	13.584	13.644	13.690	13.787	13.869	13.984	14.059	14.133	0.8%
Electric Power 14/														
Distillate Fuel Oil	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.4%
Residual Fuel Oil	0.096	0.096	0.097	0.098	0.099	0.100	0.102	0.103	0.104	0.105	0.106	0.107	0.109	0.2%
Liquid Fuels and Other Petroleum Subtotal	0.104	0.105	0.106	0.107	0.108	0.110	0.112	0.113	0.114	0.115	0.117	0.118	0.119	0.2%
Natural Gas	1.092	1.095	1.022	1.004	0.994	0.992	0.968	0.946	0.951	0.941	0.926	0.901	0.895	-0.4%
Steam Coal	0.192	0.195	0.195	0.195	0.197	0.211	0.240	0.244	0.247	0.249	0.249	0.250	0.250	2.6%
Nuclear Power	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.0%
Renewable Energy 15/	2.285	2.285	2.285	2.286	2.285	2.287	2.287	2.288	2.287	2.288	2.289	2.289	2.291	0.6%
Electricity Imports	-0.018	-0.020	-0.016	-0.017	-0.017	-0.018	-0.020	-0.019	-0.019	-0.019	-0.026	-0.026	-0.027	1.0%
Total 16/	4.120	4.124	4.057	4.039	4.033	4.046	4.051	4.036	4.044	4.038	4.026	3.996	3.992	0.4%

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	0.079	0.076	0.075	0.065	0.065	0.065	0.058	0.058	0.059	0.059	0.061	0.063	0.063	0.1%
E85 8/	0.001	0.269	0.334	0.364	0.379	0.382	0.345	0.371	0.338	0.334	0.307	0.271	0.258	34.7%
Motor Gasoline 2/	2.682	2.436	2.365	2.335	2.319	2.314	2.349	2.331	2.367	2.380	2.415	2.459	2.487	-0.2%
Jet Fuel 9/	1.142	1.162	1.182	1.201	1.221	1.240	1.259	1.278	1.297	1.316	1.335	1.354	1.373	1.8%
Kerosene	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-1.8%
Distillate Fuel Oil	1.115	1.130	1.147	1.164	1.181	1.200	1.221	1.242	1.265	1.288	1.311	1.334	1.360	1.5%
Residual Fuel Oil	0.368	0.370	0.371	0.373	0.374	0.376	0.378	0.379	0.381	0.383	0.384	0.386	0.388	0.2%
Petrochemical Feedstocks	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.035	0.034	0.034	-0.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	45.0%
Other Petroleum 12/	0.763	0.762	0.765	0.767	0.769	0.763	0.766	0.766	0.764	0.765	0.768	0.768	0.784	0.3%
Liquid Fuels and Other Petroleum Subtotal	6.193	6.246	6.280	6.310	6.348	6.381	6.415	6.465	6.510	6.562	6.619	6.673	6.750	0.7%
Natural Gas	3.256	3.275	3.220	3.232	3.241	3.261	3.262	3.251	3.275	3.275	3.267	3.251	3.246	0.4%
Natural-Gas-to-Liquids Heat and Power	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Lease and Plant Fuel 6/	0.377	0.378	0.433	0.489	0.490	0.491	0.492	0.493	0.494	0.495	0.496	0.496	0.496	1.7%
Pipeline Natural Gas	0.029	0.029	0.069	0.110	0.110	0.110	0.110	0.109	0.110	0.109	0.109	0.109	0.109	5.7%
Natural Gas Subtotal	3.661	3.681	3.723	3.831	3.840	3.862	3.864	3.853	3.879	3.879	3.872	3.856	3.852	0.7%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Other Coal	0.247	0.250	0.250	0.250	0.252	0.266	0.295	0.299	0.302	0.304	0.304	0.304	0.305	1.9%
Coal-to-Liquids Heat and Power	0.006	0.016	0.027	0.045	0.045	0.076	0.077	0.076	0.100	0.125	0.188	0.230	0.230	--
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	--
Coal Subtotal	0.253	0.266	0.277	0.294	0.297	0.343	0.372	0.375	0.402	0.428	0.492	0.535	0.535	4.3%
Nuclear Power	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.0%
Biofuels Heat and Coproducts	0.027	0.027	0.047	0.056	0.060	0.060	0.054	0.056	0.055	0.055	0.055	0.055	0.055	15.4%
Renewable Energy 17/	2.486	2.487	2.488	2.490	2.490	2.492	2.494	2.496	2.496	2.498	2.500	2.502	2.504	0.6%
Electricity Imports	-0.018	-0.020	-0.016	-0.017	-0.017	-0.018	-0.020	-0.019	-0.019	-0.019	-0.019	-0.026	-0.027	1.0%
Total	13.067	13.152	13.263	13.429	13.483	13.584	13.644	13.690	13.787	13.869	13.984	14.059	14.133	0.8%
Energy Use & Related Statistics														
Delivered Energy Use	10.534	10.629	10.822	11.021	11.098	11.205	11.280	11.359	11.469	11.576	11.724	11.847	11.946	0.9%
Total Energy Use	13.067	13.152	13.263	13.429	13.483	13.584	13.644	13.690	13.787	13.869	13.984	14.059	14.133	0.8%
Population (millions)	55.246	55.826	56.409	56.996	57.593	58.197	58.810	59.431	60.054	60.681	61.310	61.943	62.580	1.1%
Carbon Dioxide Emissions (million metric tons)	637.48	632.73	635.55	643.35	646.30	654.07	661.19	663.24	671.63	678.04	688.64	696.78	702.63	0.7%

Table 9. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-Pacific - 09

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	0.50	0.47	0.49	0.50	0.49	0.48	0.48	0.49	0.49	0.50	0.50	0.50	0.51
Kerosene	0.09	0.07	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Distillate Fuel Oil	0.85	0.70	0.79	0.80	0.78	0.75	0.76	0.76	0.76	0.75	0.75	0.75	0.75
Liquid Fuels and Other Petroleum Subtotal	1.45	1.25	1.37	1.39	1.35	1.31	1.32	1.33	1.33	1.33	1.33	1.34	1.34
Natural Gas	4.97	4.50	4.87	4.98	5.04	4.95	5.00	5.06	5.08	5.12	5.16	5.21	5.23
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/	0.45	0.41	0.46	0.49	0.46	0.44	0.43	0.43	0.43	0.42	0.42	0.41	0.41
Electricity	4.64	4.61	4.75	4.79	4.87	4.95	5.00	5.07	4.97	4.99	5.02	5.08	5.12
Delivered Energy	11.52	10.77	11.45	11.67	11.73	11.66	11.76	11.89	11.82	11.87	11.95	12.06	12.10
Electricity Related Losses	10.12	10.04	10.27	10.32	10.48	10.59	10.66	10.77	10.56	10.57	10.61	10.70	10.77
Total	21.64	20.82	21.72	21.99	22.21	22.25	22.42	22.65	22.37	22.45	22.56	22.76	22.87
Commercial													
Liquefied Petroleum Gases	0.09	0.08	0.09	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Motor Gasoline 2/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Kerosene	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distillate Fuel Oil	0.45	0.42	0.43	0.43	0.38	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41
Residual Fuel Oil	0.12	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Liquid Fuels and Other Petroleum Subtotal	0.72	0.68	0.68	0.69	0.63	0.63	0.64	0.65	0.66	0.66	0.67	0.67	0.68
Natural Gas	3.09	2.92	3.11	3.15	3.04	3.04	3.10	3.15	3.20	3.25	3.29	3.34	3.37
Coal	0.09	0.08	0.07	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Renewable Energy 3/	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Electricity	4.35	4.43	4.58	4.62	4.67	4.73	4.81	4.89	4.99	5.09	5.19	5.29	5.39
Delivered Energy	8.38	8.25	8.57	8.66	8.54	8.62	8.76	8.91	9.05	9.21	9.37	9.52	9.65
Electricity Related Losses	9.50	9.66	9.90	9.94	10.04	10.12	10.26	10.40	10.60	10.79	10.98	11.16	11.34
Total	17.87	17.91	18.47	18.60	18.58	18.74	19.02	19.31	19.65	20.01	20.34	20.67	20.99
Industrial 4/													
Liquefied Petroleum Gases	2.07	2.09	2.12	2.15	2.15	2.12	2.10	2.06	2.02	1.99	1.97	1.95	1.92
Motor Gasoline 2/	0.37	0.38	0.38	0.38	0.37	0.38	0.38	0.38	0.37	0.37	0.37	0.38	0.37
Distillate Fuel Oil	1.26	1.28	1.31	1.33	1.28	1.29	1.30	1.28	1.26	1.25	1.25	1.26	1.25
Residual Fuel Oil	0.28	0.28	0.30	0.31	0.29	0.28	0.26	0.26	0.24	0.24	0.25	0.25	0.25
Petrochemical Feedstocks	1.41	1.41	1.28	1.29	1.32	1.36	1.40	1.43	1.46	1.45	1.45	1.44	1.43
Other Petroleum 5/	4.39	4.48	4.35	4.39	4.06	4.25	4.30	4.30	4.29	4.29	4.30	4.28	4.26
Liquid Fuels and Other Petroleum Subtotal	9.79	9.92	9.74	9.84	9.47	9.67	9.74	9.71	9.64	9.60	9.60	9.56	9.49
Natural Gas	6.79	6.68	6.79	6.84	7.11	7.16	7.24	7.25	7.24	7.23	7.21	7.18	7.16
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lease and Plant Fuel 6/	1.14	1.17	1.18	1.17	1.19	1.21	1.21	1.22	1.22	1.22	1.22	1.23	1.23
Natural Gas Subtotal	7.93	7.85	7.97	8.01	8.30	8.37	8.46	8.47	8.46	8.45	8.43	8.41	8.39
Metallurgical Coal	0.62	0.60	0.61	0.63	0.61	0.60	0.59	0.57	0.55	0.54	0.54	0.54	0.54
Other Industrial Coal	1.28	1.26	1.30	1.36	1.32	1.31	1.29	1.26	1.23	1.22	1.22	1.21	1.21
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.10	0.09	0.13	0.18	0.25
Net Coal Coke Imports	0.04	0.06	0.03	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Coal Subtotal	1.95	1.92	1.94	2.06	1.97	1.93	2.02	2.01	1.91	1.89	1.92	1.97	2.03
Biofuels Heat and Coproducts	0.24	0.30	0.40	0.69	0.54	0.67	0.71	0.74	0.85	0.92	1.00	1.05	1.13
Renewable Energy 7/	1.64	1.69	1.74	1.77	1.62	1.66	1.70	1.71	1.71	1.73	1.75	1.77	1.78
Electricity	3.48	3.42	3.43	3.44	3.42	3.50	3.57	3.59	3.59	3.60	3.61	3.62	3.62
Delivered Energy	25.03	25.10	25.22	25.82	25.32	25.82	26.19	26.22	26.17	26.18	26.31	26.37	26.44
Electricity Related Losses	7.59	7.45	7.41	7.40	7.36	7.50	7.61	7.63	7.64	7.63	7.63	7.63	7.62
Total	32.62	32.55	32.63	33.22	32.68	33.32	33.80	33.85	33.81	33.81	33.93	34.00	34.06

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation													
Liquefied Petroleum Gases	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
E85 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.28	0.39
Motor Gasoline 2/	17.02	17.20	17.32	17.22	17.21	17.25	17.28	17.40	17.50	17.54	17.46	17.42	17.32
Jet Fuel 9/	3.22	3.16	3.19	3.27	3.34	3.44	3.55	3.65	3.70	3.76	3.82	3.89	3.96
Distillate Fuel Oil 10/	5.99	6.18	6.27	6.27	6.35	6.54	6.74	6.87	6.96	7.04	7.13	7.24	7.32
Residual Fuel Oil	0.83	0.83	0.89	0.87	0.86	0.85	0.84	0.84	0.85	0.85	0.85	0.85	0.85
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Petroleum 11/	0.19	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18
Liquid Fuels and Other Petroleum Subtotal	27.26	27.57	27.85	27.83	27.96	28.29	28.61	28.95	29.20	29.42	29.63	29.87	30.03
Pipeline Fuel Natural Gas	0.60	0.59	0.63	0.62	0.63	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66
Compressed Natural Gas	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06
Electricity	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
Delivered Energy	27.90	28.20	28.53	28.49	28.65	28.98	29.32	29.67	29.92	30.15	30.37	30.62	30.78
Electricity Related Losses	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	27.95	28.25	28.58	28.54	28.70	29.03	29.37	29.72	29.97	30.20	30.42	30.67	30.83
Delivered Energy Consumption, All Sectors													
Liquefied Petroleum Gases	2.68	2.65	2.72	2.75	2.73	2.70	2.69	2.65	2.61	2.59	2.57	2.56	2.53
E85 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.28	0.39
Motor Gasoline 2/	17.44	17.62	17.74	17.66	17.63	17.68	17.71	17.83	17.93	17.97	17.89	17.85	17.75
Jet Fuel 9/	3.22	3.16	3.19	3.27	3.34	3.44	3.55	3.65	3.70	3.76	3.82	3.89	3.96
Kerosene	0.14	0.11	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Distillate Fuel Oil	8.56	8.59	8.79	8.82	8.79	8.97	9.18	9.30	9.37	9.45	9.55	9.66	9.73
Residual Fuel Oil	1.22	1.23	1.29	1.29	1.26	1.23	1.20	1.21	1.19	1.19	1.21	1.21	1.20
Petrochemical Feedstocks	1.41	1.41	1.28	1.29	1.32	1.36	1.40	1.43	1.46	1.45	1.45	1.44	1.43
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Petroleum 12/	4.55	4.64	4.50	4.54	4.21	4.40	4.46	4.45	4.44	4.44	4.45	4.44	4.41
Liquid Fuels and Other Petroleum Subtotal	39.23	39.41	39.64	39.74	39.41	39.90	40.31	40.64	40.82	41.01	41.23	41.44	41.53
Natural Gas	14.86	14.12	14.80	14.99	15.22	15.19	15.38	15.50	15.57	15.65	15.72	15.79	15.82
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lease and Plant Fuel 6/	1.14	1.17	1.18	1.17	1.19	1.21	1.21	1.22	1.22	1.22	1.22	1.23	1.23
Pipeline Natural Gas	0.60	0.59	0.63	0.62	0.63	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66
Natural Gas Subtotal	16.61	15.88	16.61	16.78	17.04	17.04	17.24	17.37	17.44	17.52	17.60	17.68	17.71
Metallurgical Coal	0.62	0.60	0.61	0.63	0.61	0.60	0.59	0.57	0.55	0.54	0.54	0.54	0.54
Other Coal	1.38	1.35	1.38	1.45	1.42	1.40	1.38	1.35	1.32	1.31	1.31	1.31	1.30
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.10	0.09	0.13	0.18	0.25
Net Coal Coke Imports	0.04	0.06	0.03	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Coal Subtotal	2.04	2.02	2.02	2.15	2.06	2.03	2.11	2.10	2.00	1.98	2.01	2.06	2.12
Biofuels Heat and Coproducts	0.24	0.30	0.40	0.69	0.54	0.67	0.71	0.74	0.85	0.92	1.00	1.05	1.13
Renewable Energy 13/	2.22	2.23	2.33	2.40	2.21	2.23	2.26	2.27	2.27	2.28	2.29	2.31	2.32
Electricity	12.49	12.49	12.77	12.87	12.99	13.20	13.40	13.57	13.58	13.70	13.85	14.02	14.15
Delivered Energy	72.82	72.32	73.77	74.64	74.25	75.08	76.03	76.69	76.95	77.41	77.99	78.56	78.96
Electricity Related Losses	27.26	27.19	27.63	27.71	27.93	28.26	28.58	28.85	28.85	29.05	29.27	29.54	29.79
Total	100.08	99.52	101.40	102.34	102.18	103.34	104.61	105.53	105.81	106.46	107.26	108.10	108.75
Electric Power 14/													
Distillate Fuel Oil	0.21	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Residual Fuel Oil	1.03	0.46	0.38	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39
Liquid Fuels and Other Petroleum Subtotal	1.24	0.64	0.55	0.54	0.55	0.56	0.56	0.57	0.57	0.56	0.57	0.57	0.57
Natural Gas	6.04	6.42	6.97	7.02	6.96	6.89	6.82	6.86	6.60	6.59	6.75	6.85	6.77
Steam Coal	20.74	20.48	20.68	20.58	20.80	21.01	21.42	21.67	21.82	22.04	22.18	22.36	22.66
Nuclear Power	8.16	8.21	8.34	8.34	8.29	8.31	8.34	8.36	8.38	8.40	8.41	8.44	8.51
Renewable Energy 15/	3.36	3.74	3.65	3.89	4.12	4.53	4.68	4.78	4.88	4.96	5.05	5.16	5.24
Electricity Imports	0.08	0.06	0.09	0.09	0.08	0.05	0.05	0.06	0.07	0.06	0.04	0.04	0.05
Total 16/	39.75	39.68	40.40	40.58	40.91	41.46	41.98	42.42	42.43	42.75	43.12	43.55	43.94

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Energy Consumption													
Liquefied Petroleum Gases	2.68	2.65	2.72	2.75	2.73	2.70	2.69	2.65	2.61	2.59	2.57	2.56	2.53
E85 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.28	0.39
Motor Gasoline 2/	17.44	17.62	17.74	17.66	17.63	17.68	17.71	17.83	17.93	17.97	17.89	17.85	17.75
Jet Fuel 9/	3.22	3.16	3.19	3.27	3.34	3.44	3.55	3.65	3.70	3.76	3.82	3.89	3.96
Kerosene	0.14	0.11	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Distillate Fuel Oil	8.76	8.77	8.96	8.99	8.96	9.15	9.36	9.49	9.55	9.62	9.73	9.84	9.92
Residual Fuel Oil	2.26	1.69	1.68	1.66	1.64	1.60	1.58	1.59	1.57	1.57	1.59	1.60	1.59
Petrochemical Feedstocks	1.41	1.41	1.28	1.29	1.32	1.36	1.40	1.43	1.46	1.45	1.45	1.44	1.43
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Petroleum 12/	4.55	4.64	4.50	4.54	4.21	4.40	4.46	4.45	4.44	4.44	4.45	4.44	4.41
Liquid Fuels and Other Petroleum Subtotal	40.47	40.06	40.19	40.29	39.96	40.46	40.87	41.21	41.39	41.57	41.80	42.01	42.10
Natural Gas	20.90	20.54	21.76	22.01	22.17	22.08	22.20	22.36	22.17	22.24	22.47	22.64	22.58
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lease and Plant Fuel 6/	1.14	1.17	1.18	1.17	1.19	1.21	1.21	1.22	1.22	1.22	1.22	1.23	1.23
Pipeline Natural Gas	0.60	0.59	0.63	0.62	0.63	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66
Natural Gas Subtotal	22.65	22.30	23.58	23.79	24.00	23.93	24.06	24.23	24.04	24.11	24.35	24.53	24.48
Metallurgical Coal	0.62	0.60	0.61	0.63	0.61	0.60	0.59	0.57	0.55	0.54	0.54	0.54	0.54
Other Coal	22.12	21.83	22.06	22.03	22.21	22.41	22.79	23.02	23.14	23.36	23.49	23.67	23.96
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.10	0.09	0.13	0.18	0.25
Net Coal Coke Imports	0.04	0.06	0.03	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Coal Subtotal	22.78	22.50	22.70	22.73	22.86	23.03	23.53	23.76	23.81	24.02	24.19	24.42	24.78
Nuclear Power	8.16	8.21	8.34	8.34	8.29	8.31	8.34	8.36	8.38	8.40	8.41	8.44	8.51
Biofuels Heat and Coproducts	0.24	0.30	0.40	0.69	0.54	0.67	0.71	0.74	0.85	0.92	1.00	1.05	1.13
Renewable Energy 17/	5.58	5.97	5.98	6.28	6.33	6.76	6.94	7.05	7.15	7.24	7.34	7.47	7.57
Electricity Imports	0.08	0.06	0.09	0.09	0.08	0.05	0.05	0.06	0.07	0.06	0.04	0.04	0.05
Total	100.08	99.52	101.40	102.34	102.18	103.34	104.61	105.53	105.81	106.46	107.26	108.10	108.75
Energy Use & Related Statistics													
Delivered Energy Use	72.82	72.32	73.77	74.64	74.25	75.08	76.03	76.69	76.95	77.41	77.99	78.56	78.96
Total Energy Use	100.08	99.52	101.40	102.34	102.18	103.34	104.61	105.53	105.81	106.46	107.26	108.10	108.75
Population (millions)	297.34	300.13	302.83	305.52	308.19	310.85	313.52	316.20	318.89	321.59	324.29	326.98	329.68
Carbon Dioxide Emissions (million metric tons)	5981.5	5890.3	5976.7	5983.1	5978.0	6010.6	6087.5	6144.2	6154.0	6187.1	6226.2	6271.8	6308.3

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.55	0.55	0.55	0.7%
Kerosene	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.5%
Distillate Fuel Oil	0.74	0.73	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.68	0.67	0.66	0.65	-0.3%
Liquid Fuels and Other Petroleum Subtotal	1.34	1.33	1.33	1.33	1.32	1.32	1.32	1.31	1.31	1.30	1.30	1.29	1.29	0.1%
Natural Gas	5.25	5.27	5.30	5.32	5.33	5.34	5.36	5.35	5.35	5.35	5.36	5.33	5.32	0.7%
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.4%
Renewable Energy 1/	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	-0.3%
Electricity	5.17	5.21	5.25	5.29	5.34	5.40	5.47	5.53	5.60	5.67	5.75	5.81	5.88	1.0%
Delivered Energy	12.17	12.23	12.30	12.34	12.40	12.46	12.56	12.58	12.65	12.72	12.80	12.82	12.88	0.7%
Electricity Related Losses	10.88	10.99	11.08	11.13	11.22	11.33	11.47	11.57	11.69	11.82	11.96	12.03	12.14	0.8%
Total	23.05	23.21	23.39	23.46	23.62	23.79	24.02	24.15	24.34	24.53	24.76	24.85	25.01	0.8%
Commercial														
Liquefied Petroleum Gases	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.6%
Motor Gasoline 2/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4%
Kerosene	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2%
Distillate Fuel Oil	0.42	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.0%
Residual Fuel Oil	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-0.4%
Liquid Fuels and Other Petroleum Subtotal	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.0%
Natural Gas	3.40	3.43	3.47	3.51	3.55	3.58	3.60	3.63	3.66	3.69	3.72	3.75	3.78	1.1%
Coal	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-0.1%
Renewable Energy 3/	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.0%
Electricity	5.48	5.57	5.67	5.77	5.86	5.96	6.05	6.15	6.24	6.34	6.43	6.53	6.62	1.7%
Delivered Energy	9.77	9.90	10.03	10.17	10.30	10.43	10.55	10.67	10.80	10.93	11.05	11.18	11.30	1.3%
Electricity Related Losses	11.54	11.74	11.96	12.14	12.31	12.50	12.68	12.87	13.04	13.21	13.38	13.53	13.68	1.5%
Total	21.32	21.64	21.98	22.31	22.62	22.93	23.23	23.54	23.84	24.14	24.43	24.70	24.98	1.4%
Industrial 4/														
Liquefied Petroleum Gases	1.89	1.86	1.83	1.80	1.79	1.77	1.75	1.74	1.74	1.73	1.72	1.71	1.71	-0.8%
Motor Gasoline 2/	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.1%
Distillate Fuel Oil	1.25	1.24	1.23	1.23	1.22	1.22	1.22	1.22	1.23	1.23	1.23	1.23	1.23	-0.2%
Residual Fuel Oil	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.23	-0.9%
Petrochemical Feedstocks	1.42	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.30	1.29	1.29	-0.4%
Other Petroleum 5/	4.25	4.24	4.22	4.22	4.23	4.21	4.23	4.25	4.26	4.31	4.34	4.35	4.41	-0.1%
Liquid Fuels and Other Petroleum Subtotal	9.42	9.34	9.27	9.22	9.20	9.15	9.14	9.15	9.16	9.20	9.21	9.20	9.25	-0.3%
Natural Gas	7.15	7.13	7.14	7.19	7.19	7.19	7.18	7.17	7.17	7.16	7.13	7.11	7.08	0.2%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Lease and Plant Fuel 6/	1.23	1.22	1.25	1.28	1.29	1.28	1.28	1.27	1.28	1.28	1.27	1.27	1.27	0.3%
Natural Gas Subtotal	8.38	8.35	8.39	8.47	8.48	8.47	8.45	8.44	8.45	8.44	8.41	8.38	8.35	0.3%
Metallurgical Coal	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.50	0.49	0.48	-0.9%
Other Industrial Coal	1.21	1.20	1.20	1.20	1.20	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.18	-0.3%
Coal-to-Liquids Heat and Power	0.33	0.34	0.34	0.37	0.37	0.39	0.39	0.39	0.42	0.45	0.51	0.55	0.55	31.6%
Net Coal Coke Imports	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.8%
Coal Subtotal	2.11	2.11	2.11	2.14	2.13	2.16	2.15	2.14	2.17	2.18	2.24	2.27	2.26	0.7%
Biofuels Heat and Coproducts	1.20	1.32	1.49	1.80	2.14	2.16	2.22	2.28	2.32	2.32	2.32	2.31	2.31	8.9%
Renewable Energy 7/	1.80	1.82	1.83	1.85	1.87	1.89	1.91	1.93	1.95	1.97	1.98	2.00	2.02	0.7%
Electricity	3.62	3.60	3.59	3.58	3.57	3.56	3.56	3.55	3.55	3.55	3.54	3.53	3.52	0.1%
Delivered Energy	26.53	26.54	26.70	27.07	27.39	27.39	27.42	27.50	27.59	27.65	27.69	27.68	27.70	0.4%
Electricity Related Losses	7.61	7.59	7.57	7.54	7.50	7.48	7.45	7.43	7.42	7.40	7.36	7.31	7.28	-0.1%
Total	34.14	34.13	34.27	34.62	34.90	34.87	34.87	34.93	35.01	35.05	35.05	34.99	34.98	0.3%

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation														
Liquefied Petroleum Gases	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.0%
E85 8/	0.48	0.74	0.97	1.25	1.64	1.57	1.52	1.42	1.37	1.38	1.37	1.32	1.34	33.5%
Motor Gasoline 2/	17.21	16.90	16.56	16.25	15.79	15.80	15.81	15.83	15.87	15.85	15.88	15.95	15.97	-0.3%
Jet Fuel 9/	4.02	4.09	4.15	4.22	4.28	4.35	4.41	4.48	4.54	4.60	4.66	4.73	4.79	1.8%
Distillate Fuel Oil 10/	7.41	7.51	7.63	7.75	7.86	7.99	8.12	8.25	8.39	8.53	8.68	8.82	8.98	1.6%
Residual Fuel Oil	0.85	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.87	0.87	0.87	0.87	0.87	0.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.8%
Other Petroleum 11/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Liquid Fuels and Other Petroleum Subtotal	30.17	30.29	30.37	30.51	30.63	30.77	30.91	31.03	31.22	31.43	31.65	31.89	32.15	0.6%
Pipeline Fuel Natural Gas	0.66	0.66	0.69	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.8%
Compressed Natural Gas	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	6.0%
Electricity	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.3%
Delivered Energy	30.92	31.04	31.15	31.33	31.45	31.59	31.74	31.86	32.05	32.27	32.49	32.72	32.98	0.7%
Electricity Related Losses	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.1%
Total	30.98	31.10	31.21	31.39	31.51	31.65	31.80	31.92	32.11	32.33	32.55	32.78	33.04	0.7%
Delivered Energy Consumption, All Sectors														
Liquefied Petroleum Gases	2.50	2.48	2.45	2.43	2.42	2.40	2.39	2.39	2.39	2.38	2.38	2.37	2.37	-0.5%
E85 8/	0.48	0.74	0.97	1.25	1.64	1.57	1.52	1.42	1.37	1.38	1.37	1.32	1.34	33.5%
Motor Gasoline 2/	17.64	17.33	16.99	16.67	16.21	16.23	16.23	16.26	16.30	16.29	16.32	16.39	16.40	-0.3%
Jet Fuel 9/	4.02	4.09	4.15	4.22	4.28	4.35	4.41	4.48	4.54	4.60	4.66	4.73	4.79	1.8%
Kerosene	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.4%
Distillate Fuel Oil	9.81	9.90	10.00	10.11	10.21	10.33	10.45	10.58	10.71	10.85	10.99	11.13	11.28	1.1%
Residual Fuel Oil	1.20	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.20	1.20	1.20	1.20	-0.1%
Petrochemical Feedstocks	1.42	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.33	1.32	1.31	1.30	1.29	-0.4%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.8%
Other Petroleum 12/	4.41	4.39	4.38	4.37	4.39	4.37	4.41	4.42	4.42	4.47	4.49	4.51	4.56	-0.1%
Liquid Fuels and Other Petroleum Subtotal	41.61	41.64	41.65	41.73	41.83	41.92	42.05	42.17	42.37	42.62	42.85	43.07	43.37	0.4%
Natural Gas	15.87	15.90	15.98	16.09	16.14	16.19	16.22	16.22	16.27	16.28	16.30	16.28	16.27	0.6%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Lease and Plant Fuel 6/	1.23	1.22	1.25	1.28	1.29	1.28	1.28	1.27	1.28	1.28	1.27	1.27	1.27	0.3%
Pipeline Natural Gas	0.66	0.66	0.69	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.8%
Natural Gas Subtotal	17.76	17.78	17.93	18.10	18.15	18.19	18.22	18.22	18.27	18.28	18.29	18.27	18.26	0.6%
Metallurgical Coal	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.50	0.49	0.48	-0.9%
Other Coal	1.30	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28	1.28	1.28	1.27	1.27	-0.3%
Coal-to-Liquids Heat and Power	0.33	0.34	0.34	0.37	0.37	0.39	0.39	0.39	0.42	0.45	0.51	0.55	0.55	31.6%
Net Coal Coke Imports	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.8%
Coal Subtotal	2.20	2.20	2.21	2.23	2.23	2.25	2.24	2.23	2.26	2.28	2.33	2.36	2.35	0.6%
Biofuels Heat and Coproducts	1.20	1.32	1.49	1.80	2.14	2.16	2.22	2.28	2.32	2.32	2.32	2.31	2.31	8.9%
Renewable Energy 13/	2.34	2.35	2.37	2.38	2.40	2.41	2.43	2.45	2.47	2.48	2.50	2.51	2.52	0.5%
Electricity	14.29	14.42	14.54	14.66	14.81	14.95	15.11	15.26	15.42	15.59	15.75	15.89	16.05	1.1%
Delivered Energy	79.39	79.71	80.18	80.91	81.55	81.88	82.27	82.61	83.10	83.56	84.03	84.40	84.86	0.7%
Electricity Related Losses	30.09	30.37	30.67	30.87	31.09	31.36	31.66	31.93	32.20	32.48	32.75	32.93	33.16	0.8%
Total	109.48	110.08	110.85	111.78	112.64	113.24	113.92	114.54	115.30	116.04	116.79	117.33	118.01	0.7%
Electric Power 14/														
Distillate Fuel Oil	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.9%
Residual Fuel Oil	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	-0.6%
Liquid Fuels and Other Petroleum Subtotal	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	-0.1%
Natural Gas	6.55	6.33	6.09	5.93	5.83	5.68	5.56	5.45	5.40	5.36	5.31	5.18	5.13	-0.9%
Steam Coal	23.07	23.39	23.67	24.06	24.38	24.76	25.17	25.51	25.86	26.25	26.63	27.02	27.55	1.2%
Nuclear Power	8.64	8.83	9.05	9.11	9.21	9.30	9.39	9.50	9.59	9.65	9.66	9.68	9.57	0.6%
Renewable Energy 15/	5.37	5.48	5.64	5.67	5.71	5.79	5.86	5.94	5.98	6.01	6.10	6.12	6.13	2.1%
Electricity Imports	0.05	0.06	0.04	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.07	0.08	1.0%
Total 16/	44.38	44.79	45.21	45.53	45.90	46.31	46.77	47.19	47.62	48.07	48.51	48.82	49.21	0.9%

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Energy Consumption														
Liquefied Petroleum Gases	2.50	2.48	2.45	2.43	2.42	2.40	2.39	2.39	2.39	2.38	2.38	2.37	2.37	-0.5%
E85 8/	0.48	0.74	0.97	1.25	1.64	1.57	1.52	1.42	1.37	1.38	1.37	1.32	1.34	33.5%
Motor Gasoline 2/	17.64	17.33	16.99	16.67	16.21	16.23	16.23	16.26	16.30	16.29	16.32	16.39	16.40	-0.3%
Jet Fuel 9/	4.02	4.09	4.15	4.22	4.28	4.35	4.41	4.48	4.54	4.60	4.66	4.73	4.79	1.8%
Kerosene	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.4%
Distillate Fuel Oil	10.00	10.09	10.20	10.31	10.42	10.53	10.66	10.79	10.93	11.07	11.22	11.35	11.51	1.1%
Residual Fuel Oil	1.59	1.58	1.58	1.58	1.59	1.59	1.59	1.59	1.59	1.59	1.60	1.60	1.60	-0.2%
Petrochemical Feedstocks	1.42	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.33	1.32	1.31	1.30	1.29	-0.4%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.8%
Other Petroleum 12/	4.41	4.39	4.38	4.37	4.39	4.37	4.38	4.41	4.42	4.47	4.49	4.51	4.56	-0.1%
Liquid Fuels and Other Petroleum Subtotal	42.18	42.22	42.24	42.33	42.43	42.52	42.66	42.78	42.98	43.24	43.47	43.69	43.99	0.4%
Natural Gas	22.42	22.23	22.07	22.02	21.97	21.86	21.78	21.67	21.67	21.65	21.61	21.46	21.40	0.2%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Lease and Plant Fuel 6/	1.23	1.22	1.25	1.28	1.29	1.28	1.28	1.27	1.28	1.28	1.27	1.27	1.27	0.3%
Pipeline Natural Gas	0.66	0.66	0.69	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.8%
Natural Gas Subtotal	24.31	24.11	24.01	24.02	23.98	23.86	23.78	23.66	23.67	23.64	23.60	23.44	23.39	0.2%
Metallurgical Coal	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.50	0.49	0.48	-0.9%
Other Coal	24.36	24.68	24.96	25.35	25.67	26.05	26.45	26.79	27.13	27.52	27.91	28.29	28.82	1.2%
Coal-to-Liquids Heat and Power	0.33	0.34	0.34	0.37	0.37	0.39	0.39	0.39	0.42	0.45	0.51	0.55	0.55	31.6%
Net Coal Coke Imports	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.8%
Coal Subtotal	25.27	25.59	25.87	26.28	26.60	27.01	27.41	27.75	28.11	28.52	28.96	29.38	29.90	1.2%
Nuclear Power	8.64	8.83	9.05	9.11	9.21	9.30	9.39	9.50	9.59	9.65	9.66	9.68	9.57	0.6%
Biofuels Heat and Coproducts	1.20	1.32	1.49	1.80	2.14	2.16	2.22	2.28	2.32	2.32	2.32	2.31	2.31	8.9%
Renewable Energy 17/	7.71	7.83	8.01	8.05	8.11	8.21	8.29	8.39	8.44	8.49	8.59	8.63	8.66	1.6%
Electricity Imports	0.05	0.06	0.04	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.07	0.08	1.0%
Total	109.48	110.08	110.85	111.78	112.64	113.24	113.92	114.54	115.30	116.04	116.79	117.33	118.01	0.7%
Energy Use & Related Statistics														
Delivered Energy Use	79.39	79.71	80.18	80.91	81.55	81.88	82.27	82.61	83.10	83.56	84.03	84.40	84.86	0.7%
Total Energy Use	109.48	110.08	110.85	111.78	112.64	113.24	113.92	114.54	115.30	116.04	116.79	117.33	118.01	0.7%
Population (millions)	332.37	335.05	337.74	340.43	343.14	345.88	348.63	351.41	354.20	357.02	359.85	362.71	365.59	0.8%
Carbon Dioxide Emissions (million metric tons)	6349.8	6368.4	6384.1	6416.1	6438.2	6482.5	6530.8	6570.6	6622.4	6678.3	6735.5	6783.4	6851.0	0.6%

Table 10. Energy Consumption by Sector and Source
(quadrillion Btu, unless otherwise noted)-United States

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2005 and 2006 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 population and gross domestic product: Global Insight, Global Insight Industry and Employment models, July 2007. 2005 and 2006 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2006, DOE/EIA-0573(2006) (Washington, DC, December 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 11. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	22.09	27.69	29.68	32.20	30.30	29.78	29.51	29.24	28.98	28.69	28.49	28.41	28.45
Distillate Fuel Oil	16.67	17.61	19.11	21.69	17.96	17.30	16.60	15.88	15.18	14.91	14.33	13.89	13.90
Natural Gas	15.53	16.88	15.16	15.64	15.80	15.23	14.99	14.75	14.55	14.30	14.14	14.09	14.18
Electricity	40.71	47.05	45.21	46.11	47.72	46.42	46.42	46.77	46.39	46.35	45.87	45.78	46.10
Commercial													
Distillate Fuel Oil	13.87	14.65	16.80	19.51	16.31	15.68	15.24	14.53	13.91	13.77	13.26	12.81	12.84
Residual Fuel	10.49	10.08	9.46	13.55	11.04	10.61	10.21	9.80	9.41	8.99	8.58	8.17	8.19
Natural Gas	13.71	14.31	12.68	13.32	13.48	12.84	12.62	12.41	12.21	11.98	11.84	11.82	11.91
Electricity	36.18	42.74	38.32	39.04	39.77	37.76	36.91	36.40	35.28	34.71	33.95	33.67	33.93
Industrial 1/													
Liquefied Petroleum Gases	17.34	22.44	23.55	23.79	24.96	24.44	24.17	23.91	23.65	23.36	23.15	23.08	23.12
Distillate Fuel Oil	13.84	14.62	16.82	19.59	16.45	15.82	15.71	14.99	14.44	14.39	13.94	13.49	13.51
Residual Fuel Oil	10.41	9.44	8.87	12.71	11.04	10.61	10.21	9.80	9.41	8.99	8.58	8.17	8.19
Natural Gas 2/	10.95	10.55	9.13	9.70	10.01	9.51	9.25	8.99	8.74	8.46	8.27	8.20	8.23
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	3.40	3.60	3.76	3.93	3.92	3.87	3.90	3.83	3.82	3.80	3.74	3.70	3.67
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	27.58	34.10	33.82	34.60	34.11	30.84	28.96	27.99	26.50	25.85	25.02	24.70	24.87
Transportation													
Liquefied Petroleum Gases 3/	18.98	20.25	21.08	21.18	24.29	26.17	25.90	25.63	25.36	25.07	24.86	24.78	24.82
E85 4/	23.89	33.03	26.75	26.72	26.45	28.90	28.62	27.70	26.83	18.36	17.98	19.45	17.46
Motor Gasoline 5/	19.75	21.83	23.20	25.25	22.24	21.41	21.20	20.52	19.87	19.75	19.13	18.64	18.70
Jet Fuel 6/	13.49	15.27	15.43	16.19	17.24	16.67	16.19	15.38	14.73	14.38	13.78	13.17	13.18
Distillate Fuel Oil 7/	19.12	20.45	21.24	23.60	21.30	20.65	20.27	19.52	18.96	18.93	18.49	17.97	17.99
Residual Fuel Oil	8.03	7.45	7.48	9.08	9.16	8.78	8.42	8.05	7.70	7.33	6.96	6.59	6.61
Natural Gas 8/	15.58	15.45	14.08	14.66	14.97	14.45	14.18	13.90	13.62	13.31	13.09	12.99	12.99
Electricity	37.77	36.52	37.19	39.92	40.03	38.45	38.05	38.09	36.99	36.51	35.79	35.51	35.65
Electric Power 9/													
Distillate Fuel Oil	12.18	12.87	14.81	17.23	13.22	12.55	11.85	11.14	10.44	10.16	9.58	9.15	9.16
Residual Fuel Oil	7.07	7.37	7.80	9.46	9.26	8.86	8.47	8.09	7.71	7.32	6.93	6.54	6.56
Natural Gas	9.65	7.35	7.28	7.90	8.23	7.66	7.42	7.16	6.91	6.63	6.42	6.34	6.37
Steam Coal	2.78	2.95	3.05	3.14	3.25	3.29	3.28	3.21	3.15	3.12	3.13	3.08	3.05

Table 11. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	20.64	26.49	27.89	29.65	28.79	28.31	28.06	27.83	27.59	27.33	27.15	27.11	27.17
E85 4/	23.89	33.03	26.75	26.72	26.45	28.90	28.62	27.70	26.83	18.36	17.98	19.45	17.46
Motor Gasoline 5/	19.67	21.72	23.10	25.16	22.24	21.41	21.20	20.52	19.87	19.75	19.13	18.64	18.70
Jet Fuel	13.49	15.27	15.43	16.19	17.24	16.67	16.19	15.38	14.73	14.38	13.78	13.17	13.18
Distillate Fuel Oil	16.76	17.88	19.28	21.84	18.64	18.01	17.49	16.81	16.23	16.08	15.57	15.13	15.15
Residual Fuel Oil	8.38	8.86	8.73	12.09	10.55	10.12	9.71	9.32	8.92	8.51	8.11	7.70	7.72
Natural Gas	11.96	10.98	9.87	10.51	10.80	10.29	10.06	9.81	9.58	9.31	9.17	9.14	9.20
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	2.79	2.96	3.07	3.16	3.27	3.30	3.29	3.22	3.16	3.13	3.14	3.09	3.06
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	36.32	42.76	40.08	40.92	41.79	39.80	39.04	38.76	37.73	37.31	36.61	36.39	36.65
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	15.89	15.82	16.99	17.91	16.99	16.35	16.16	16.03	15.51	15.35	15.09	15.03	15.10
Commercial	10.08	11.03	10.61	11.19	10.92	10.45	10.37	10.31	10.15	10.14	10.07	10.12	10.33
Industrial	4.89	5.22	5.16	5.56	5.40	5.08	4.89	4.69	4.44	4.28	4.14	4.03	4.00
Transportation	20.92	23.44	24.95	27.50	24.94	24.46	24.54	24.03	23.53	23.49	22.80	22.48	21.61
Total Non-Renewable Expenditures	51.77	55.51	57.70	62.16	58.25	56.35	55.95	55.06	53.63	53.26	52.10	51.66	51.03
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.17	0.01	0.88
Total Expenditures	51.77	55.51	57.71	62.16	58.25	56.35	55.95	55.07	53.63	53.32	52.26	51.67	51.91

Table 11. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	28.49	28.50	28.39	28.26	28.36	28.41	28.52	28.61	28.72	28.76	28.98	29.12	29.25	0.2%
Distillate Fuel Oil	14.04	14.20	14.31	14.41	14.52	14.72	14.96	15.16	15.39	15.59	15.81	16.06	16.31	-0.3%
Natural Gas	14.27	14.33	14.24	14.15	14.30	14.40	14.54	14.69	14.87	14.92	15.19	15.39	15.57	-0.3%
Electricity	46.38	46.42	46.09	45.76	46.00	46.17	46.43	46.38	46.76	46.59	47.16	47.52	47.15	0.0%
Commercial														
Distillate Fuel Oil	12.99	13.31	13.59	13.56	13.70	13.83	13.99	14.22	14.44	14.64	14.84	15.09	15.33	0.2%
Residual Fuel	8.32	8.45	8.56	8.68	8.80	8.94	9.08	9.23	9.35	9.32	9.52	9.69	9.83	-0.1%
Natural Gas	12.01	12.08	12.03	11.95	12.11	12.22	12.39	12.54	12.74	12.80	13.09	13.28	13.47	-0.3%
Electricity	34.34	34.56	34.25	33.87	34.06	34.22	34.64	34.57	35.13	34.93	35.65	36.19	35.77	-0.7%
Industrial 1/														
Liquefied Petroleum Gases	23.15	23.17	23.06	22.92	23.03	23.08	23.19	23.28	23.39	23.42	23.65	23.78	23.91	0.3%
Distillate Fuel Oil	13.67	14.13	14.52	14.39	14.55	14.64	14.74	14.99	15.21	15.40	15.58	15.83	16.07	0.4%
Residual Fuel Oil	8.32	8.45	8.56	8.68	8.80	8.94	9.08	9.23	9.35	9.32	9.52	9.69	9.83	0.2%
Natural Gas 2/	8.27	8.28	8.18	8.05	8.15	8.20	8.30	8.39	8.52	8.53	8.75	8.88	9.00	-0.7%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	3.65	3.64	3.65	3.65	3.66	3.65	3.65	3.64	3.64	3.65	3.65	3.66	3.67	0.1%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	25.16	25.30	25.03	24.70	24.92	25.09	25.47	25.56	26.01	25.97	26.61	27.09	26.87	-1.0%
Transportation														
Liquefied Petroleum Gases 3/	24.85	24.86	24.74	24.60	24.70	24.75	24.85	24.94	25.05	25.07	25.30	25.43	25.55	1.0%
E85 4/	17.62	18.93	18.68	17.36	18.37	18.92	19.39	19.28	19.65	19.82	20.11	20.42	20.51	-2.0%
Motor Gasoline 5/	18.92	19.56	20.06	19.84	20.15	20.18	20.20	20.41	20.51	20.66	20.87	21.07	21.24	-0.1%
Jet Fuel 6/	13.32	13.49	13.62	13.77	13.93	14.10	14.28	14.48	14.68	14.91	15.14	15.37	15.62	0.1%
Distillate Fuel Oil 7/	18.11	18.60	18.99	18.81	18.95	19.00	19.03	19.27	19.48	19.64	19.79	20.02	20.23	0.0%
Residual Fuel Oil	6.72	6.84	6.94	7.05	7.17	7.29	7.42	7.56	7.70	7.86	8.01	8.17	8.32	0.5%
Natural Gas 8/	13.00	12.98	12.86	12.70	12.78	12.79	12.87	12.93	13.04	13.02	13.21	13.32	13.41	-0.6%
Electricity	35.84	35.84	35.48	35.05	35.19	35.10	35.41	35.45	35.83	35.76	36.40	36.76	36.54	0.0%
Electric Power 9/														
Distillate Fuel Oil	9.30	9.45	9.57	9.67	9.78	9.97	10.21	10.42	10.64	10.85	11.06	11.32	11.56	-0.4%
Residual Fuel Oil	6.68	6.81	6.92	7.03	7.15	7.28	7.42	7.56	7.69	7.76	7.93	8.10	8.25	0.5%
Natural Gas	6.40	6.40	6.31	6.19	6.29	6.33	6.43	6.51	6.61	6.64	6.86	6.98	7.10	-0.1%
Steam Coal	2.96	2.91	2.87	2.83	2.74	2.69	2.64	2.56	2.50	2.50	2.50	2.51	2.51	-0.7%

Table 11. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	27.23	27.27	27.19	27.07	27.20	27.27	27.40	27.50	27.63	27.68	27.92	28.07	28.21	0.3%
E85 4/	17.62	18.93	18.68	17.36	18.37	18.92	19.39	19.28	19.65	19.82	20.11	20.42	20.51	-2.0%
Motor Gasoline 5/	18.92	19.56	20.06	19.84	20.15	20.18	20.20	20.41	20.51	20.66	20.87	21.07	21.24	-0.1%
Jet Fuel	13.32	13.49	13.62	13.77	13.93	14.10	14.28	14.48	14.68	14.91	15.14	15.37	15.62	0.1%
Distillate Fuel Oil	15.31	15.64	15.92	15.92	16.07	16.23	16.40	16.65	16.89	17.10	17.31	17.59	17.85	0.0%
Residual Fuel Oil	7.84	7.97	8.08	8.19	8.32	8.45	8.59	8.73	8.85	8.85	9.04	9.21	9.35	0.2%
Natural Gas	9.24	9.28	9.16	9.03	9.13	9.21	9.34	9.46	9.61	9.67	9.90	10.08	10.28	-0.3%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	2.97	2.92	2.88	2.84	2.76	2.71	2.65	2.58	2.52	2.52	2.53	2.53	2.53	-0.6%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	37.01	37.17	36.87	36.51	36.75	36.94	37.34	37.33	37.84	37.70	38.40	38.89	38.55	-0.4%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	15.23	15.30	15.30	15.23	15.37	15.50	15.71	15.79	16.00	16.08	16.37	16.52	16.60	0.2%
Commercial	10.57	10.78	10.85	10.88	11.09	11.27	11.52	11.66	11.95	12.04	12.39	12.67	12.73	0.6%
Industrial	3.96	3.95	3.90	3.83	3.83	3.80	3.80	3.80	3.82	3.79	3.82	3.84	3.79	-1.3%
Transportation	21.25	21.99	21.98	21.52	21.67	21.70	21.85	21.83	22.07	22.23	22.49	22.82	23.00	-0.1%
Total Non-Renewable Expenditures	51.01	52.02	52.03	51.46	51.96	52.28	52.89	53.08	53.84	54.14	55.06	55.85	56.12	0.0%
Transportation Renewable Expenditures	1.43	1.41	1.78	1.83	2.00	2.05	1.97	2.17	2.12	2.16	2.19	2.17	2.27	38.7%
Total Expenditures	52.43	53.43	53.80	53.29	53.96	54.32	54.86	55.25	55.96	56.30	57.25	58.02	58.39	0.2%

Table 11. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-New England - 01

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.
Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 12. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	22.18	27.31	29.27	31.75	29.09	28.64	28.32	28.07	27.77	27.55	27.41	27.36	27.43
Distillate Fuel Oil	17.32	18.30	19.47	22.07	18.11	17.45	16.76	16.05	15.35	15.08	14.50	14.07	14.08
Natural Gas	14.35	15.76	13.94	14.08	14.19	13.73	13.47	13.25	13.02	12.83	12.72	12.70	12.82
Electricity	37.84	39.35	39.89	40.76	41.98	40.69	40.05	40.37	40.05	39.84	40.05	40.29	40.59
Commercial													
Distillate Fuel Oil	13.89	14.67	16.53	18.82	16.14	15.51	15.08	14.37	13.75	13.61	13.11	12.66	12.69
Residual Fuel Oil	11.69	8.14	7.63	10.92	10.13	9.71	9.31	8.90	8.51	8.09	7.68	7.27	7.30
Natural Gas	13.00	12.48	11.26	11.72	11.87	11.30	11.05	10.85	10.61	10.43	10.34	10.33	10.44
Electricity	35.72	37.34	36.57	37.23	37.79	35.96	34.64	34.46	33.63	33.12	33.25	33.39	33.71
Industrial 1/													
Liquefied Petroleum Gases	18.01	22.71	23.84	24.08	25.22	24.77	24.45	24.20	23.90	23.68	23.54	23.49	23.56
Distillate Fuel Oil	13.66	14.44	16.62	19.04	16.14	15.51	15.40	14.69	14.14	14.10	13.65	13.19	13.22
Residual Fuel Oil	11.13	8.28	7.77	11.13	10.13	9.71	9.31	8.90	8.51	8.09	7.68	7.27	7.30
Natural Gas 2/	9.84	9.47	8.22	8.53	8.74	8.31	8.00	7.76	7.47	7.26	7.13	7.08	7.14
Metallurgical Coal	3.05	3.30	3.63	3.79	3.80	3.82	3.68	3.53	3.44	3.34	3.21	3.12	3.08
Other Industrial Coal	2.07	2.26	2.29	2.34	2.33	2.29	2.30	2.28	2.29	2.26	2.24	2.23	2.21
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	22.10	22.86	23.34	24.09	24.74	23.24	22.24	22.10	21.29	20.77	20.82	20.95	21.09
Transportation													
Liquefied Petroleum Gases 3/	19.19	20.48	21.31	21.40	23.17	25.13	24.81	24.56	24.25	24.02	23.88	23.83	23.89
E85 4/	23.89	33.03	26.75	29.73	29.43	28.90	28.55	27.67	26.85	26.68	25.87	25.20	25.29
Motor Gasoline 5/	19.59	21.90	23.26	25.32	23.63	21.41	21.15	20.49	19.89	19.77	19.17	18.67	18.73
Jet Fuel 6/	13.23	14.87	15.05	15.78	16.38	15.86	15.41	14.65	14.04	13.71	13.14	12.56	12.59
Distillate Fuel Oil 7/	18.46	19.79	20.57	22.85	21.08	20.44	20.05	19.31	18.75	18.72	18.28	17.77	17.79
Residual Fuel Oil	8.79	7.95	8.17	9.46	8.91	8.53	8.17	7.81	7.45	7.08	6.71	6.34	6.36
Natural Gas 8/	16.18	16.94	15.20	15.54	15.75	15.28	14.93	14.63	14.29	14.02	13.84	13.74	13.74
Electricity	34.96	33.44	33.44	35.33	35.93	34.48	33.59	33.58	32.69	32.13	32.21	32.33	32.49
Electric Power 9/													
Distillate Fuel Oil	12.02	12.71	14.63	16.77	15.14	14.48	13.78	13.07	12.38	12.10	11.52	11.09	11.10
Residual Fuel Oil	7.55	7.68	8.14	9.86	8.94	8.54	8.16	7.78	7.41	7.01	6.63	6.24	6.26
Natural Gas	9.59	7.57	7.12	7.54	7.77	7.30	7.01	6.77	6.47	6.26	6.14	6.09	6.14
Steam Coal	1.74	1.94	1.98	1.99	2.03	2.11	2.14	2.11	2.10	2.08	2.07	2.06	2.06

Table 12. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	20.21	25.29	26.60	27.95	27.17	26.78	26.42	26.19	25.92	25.68	25.55	25.35	25.43
E85 4/	23.89	33.03	26.75	29.73	29.43	28.90	28.55	27.67	26.85	26.68	25.87	25.20	25.29
Motor Gasoline 5/	19.53	21.80	23.17	25.23	23.63	21.41	21.15	20.49	19.89	19.77	19.17	18.67	18.73
Jet Fuel	13.23	14.87	15.05	15.78	16.38	15.86	15.41	14.65	14.04	13.71	13.14	12.56	12.59
Distillate Fuel Oil	17.07	18.32	19.41	21.78	19.18	18.53	18.08	17.41	16.88	16.78	16.29	15.83	15.85
Residual Fuel Oil	8.65	7.95	8.03	9.97	9.23	8.83	8.45	8.10	7.72	7.33	6.95	6.57	6.59
Natural Gas	12.32	11.79	10.71	10.99	11.10	10.64	10.35	10.15	9.97	9.81	9.64	9.62	9.73
Metallurgical Coal	3.05	3.30	3.63	3.79	3.80	3.82	3.68	3.53	3.44	3.34	3.21	3.12	3.08
Other Coal	1.77	1.96	2.00	2.02	2.05	2.13	2.15	2.12	2.11	2.09	2.08	2.07	2.07
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	33.60	34.96	35.15	35.95	36.79	35.18	34.14	34.14	33.42	33.00	33.15	33.33	33.63
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	37.87	36.24	38.30	40.31	39.86	38.08	37.44	37.36	36.21	35.82	35.64	35.74	35.97
Commercial	31.05	30.51	31.10	32.61	31.93	30.59	29.99	30.01	29.60	29.53	29.84	30.19	30.76
Industrial	13.82	13.67	13.23	13.64	15.59	14.98	14.55	14.19	13.55	13.08	12.83	12.67	12.51
Transportation	54.22	59.36	63.06	68.28	63.92	59.38	58.69	57.14	55.67	55.39	53.85	52.46	52.61
Total Non-Renewable Expenditures	136.96	139.79	145.71	154.83	151.29	143.02	140.67	138.71	135.04	133.82	132.17	131.06	131.86
Transportation Renewable Expenditures	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Expenditures	136.97	139.79	145.71	154.84	151.30	143.03	140.68	138.71	135.04	133.83	132.18	131.07	131.87

Table 12. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	27.49	27.55	27.46	27.35	27.48	27.55	27.67	27.78	27.90	27.94	28.17	28.31	28.45	0.2%
Distillate Fuel Oil	14.22	14.37	14.48	14.59	14.69	14.89	15.12	15.33	15.58	15.76	15.97	16.23	16.47	-0.4%
Natural Gas	12.94	13.03	12.97	12.91	13.08	13.20	13.36	13.52	13.71	13.78	14.04	14.25	14.43	-0.4%
Electricity	40.79	40.65	40.53	40.15	40.33	40.52	40.60	40.76	40.79	40.80	41.03	40.93	41.35	0.2%
Commercial														
Distillate Fuel Oil	12.84	13.16	13.43	13.40	13.54	13.67	13.83	14.06	14.30	14.47	14.67	14.93	15.16	0.1%
Residual Fuel	7.42	7.55	7.66	7.78	7.91	8.04	8.19	8.33	8.45	8.42	8.62	8.79	8.93	0.4%
Natural Gas	10.56	10.66	10.62	10.56	10.73	10.86	11.03	11.18	11.38	11.44	11.72	11.91	12.09	-0.1%
Electricity	33.96	34.01	34.01	33.61	33.83	34.03	34.14	34.37	34.51	34.56	34.91	34.84	35.30	-0.2%
Industrial 1/														
Liquefied Petroleum Gases	23.63	23.68	23.59	23.48	23.61	23.68	23.80	23.91	24.03	24.07	24.30	24.44	24.58	0.3%
Distillate Fuel Oil	13.38	13.83	14.22	14.09	14.25	14.34	14.44	14.68	14.91	15.09	15.28	15.53	15.77	0.4%
Residual Fuel Oil	7.42	7.55	7.66	7.78	7.91	8.04	8.19	8.33	8.45	8.42	8.62	8.79	8.93	0.3%
Natural Gas 2/	7.21	7.26	7.17	7.07	7.19	7.26	7.38	7.48	7.62	7.64	7.86	8.00	8.13	-0.6%
Metallurgical Coal	3.07	3.09	3.10	3.12	3.14	3.16	3.17	3.20	3.22	3.24	3.25	3.27	3.30	0.0%
Other Industrial Coal	2.19	2.18	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.18	2.18	2.18	2.20	-0.1%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	21.30	21.12	20.95	20.59	20.72	20.92	21.03	21.17	21.19	21.22	21.48	21.36	21.69	-0.2%
Transportation														
Liquefied Petroleum Gases 3/	23.95	24.00	23.90	23.79	23.91	23.98	24.10	24.20	24.32	24.36	24.58	24.72	24.85	0.8%
E85 4/	25.54	26.39	18.20	17.93	18.79	19.35	19.88	22.72	22.82	23.00	23.22	23.41	23.60	-1.4%
Motor Gasoline 5/	18.92	19.55	19.98	19.86	20.15	20.18	20.19	20.34	20.43	20.59	20.80	20.98	21.17	-0.1%
Jet Fuel 6/	12.75	12.93	13.08	13.24	13.41	13.59	13.79	13.99	14.20	14.44	14.67	14.91	15.17	0.1%
Distillate Fuel Oil 7/	17.91	18.40	18.78	18.61	18.74	18.79	18.82	19.06	19.27	19.43	19.58	19.81	20.01	0.0%
Residual Fuel Oil	6.48	6.59	6.70	6.81	6.92	7.04	7.17	7.31	7.45	7.61	7.76	7.92	8.07	0.1%
Natural Gas 8/	13.75	13.74	13.59	13.44	13.50	13.52	13.58	13.63	13.72	13.69	13.86	13.95	14.03	-0.8%
Electricity	32.65	32.47	32.31	31.87	32.00	32.10	32.24	32.44	32.48	32.51	32.82	32.77	33.15	0.0%
Electric Power 9/														
Distillate Fuel Oil	11.24	11.39	11.50	11.61	11.72	11.91	12.15	12.35	12.60	12.78	13.00	13.25	13.49	0.2%
Residual Fuel Oil	6.38	6.50	6.61	6.72	6.84	6.97	7.11	7.25	7.38	7.45	7.62	7.79	7.93	0.1%
Natural Gas	6.20	6.25	6.16	6.06	6.18	6.25	6.36	6.46	6.57	6.61	6.83	6.96	7.09	-0.3%
Steam Coal	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.04	2.04	2.06	0.3%

Table 12. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	25.54	25.62	25.56	25.70	25.93	26.02	26.16	26.28	26.42	26.47	26.72	26.88	27.03	0.3%
E85 4/	25.54	26.39	18.20	17.93	18.79	19.35	19.88	22.72	22.82	23.00	23.22	23.41	23.60	-1.4%
Motor Gasoline 5/	18.92	19.55	19.98	19.86	20.15	20.18	20.19	20.34	20.43	20.59	20.80	20.98	21.17	-0.1%
Jet Fuel	12.75	12.93	13.08	13.24	13.41	13.59	13.79	13.99	14.20	14.44	14.67	14.91	15.17	0.1%
Distillate Fuel Oil	16.00	16.39	16.73	16.66	16.81	16.93	17.07	17.31	17.55	17.74	17.94	18.21	18.46	0.0%
Residual Fuel Oil	6.70	6.82	6.93	7.04	7.16	7.29	7.43	7.57	7.70	7.78	7.95	8.12	8.27	0.2%
Natural Gas	9.87	9.99	9.94	9.88	10.04	10.16	10.32	10.47	10.66	10.75	11.03	11.23	11.42	-0.1%
Metallurgical Coal	3.07	3.09	3.10	3.12	3.14	3.16	3.17	3.20	3.22	3.24	3.25	3.27	3.30	0.0%
Other Coal	2.07	2.07	2.08	2.08	2.07	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.07	0.2%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	33.88	33.86	33.81	33.45	33.68	33.92	34.07	34.30	34.43	34.50	34.84	34.79	35.25	0.0%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	36.28	36.42	36.43	36.21	36.58	36.94	37.40	37.70	38.09	38.34	38.98	39.19	39.74	0.4%
Commercial	31.32	31.77	32.08	32.11	32.70	33.22	33.71	34.28	34.81	35.19	35.93	36.34	37.10	0.8%
Industrial	12.34	12.20	12.05	11.69	11.62	11.56	11.50	11.51	11.50	11.43	11.47	11.36	11.30	-0.8%
Transportation	53.09	54.48	55.06	52.87	52.41	51.98	52.53	56.29	56.72	57.30	58.00	58.72	59.51	0.0%
Total Non-Renewable Expenditures	133.03	134.87	135.62	132.88	133.31	133.70	135.13	139.77	141.12	142.27	144.37	145.61	147.65	0.2%
Transportation Renewable Expenditures	0.01	0.01	0.42	2.50	3.87	4.63	4.17	0.04	0.03	0.04	0.03	0.03	0.04	11.1%
Total Expenditures	133.05	134.88	136.05	135.39	137.18	138.32	139.30	139.81	141.16	142.30	144.41	145.64	147.68	0.2%

Table 12. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Middle Atlantic - 02

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 13. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	17.17	20.03	21.47	23.30	23.96	23.64	23.30	23.07	22.81	22.61	22.47	22.42	22.48
Distillate Fuel Oil	16.39	17.29	18.65	21.59	17.13	16.48	15.73	14.90	14.20	13.92	13.31	12.88	12.89
Natural Gas	11.77	11.95	11.51	11.64	11.59	11.12	10.82	10.61	10.38	10.20	10.08	10.04	10.14
Electricity	25.48	26.89	27.57	27.85	28.84	28.61	28.24	27.96	27.67	27.43	27.47	27.54	27.67
Commercial													
Distillate Fuel Oil	13.71	14.49	16.69	19.27	15.67	15.03	14.69	13.82	13.19	13.05	12.53	12.09	12.11
Residual Fuel	9.97	7.13	6.70	9.59	12.28	11.53	10.97	10.29	9.76	9.51	8.95	8.51	8.50
Natural Gas	10.78	10.91	10.42	10.67	10.66	10.14	9.84	9.64	9.42	9.25	9.14	9.11	9.21
Electricity	23.19	23.99	25.03	25.35	26.23	25.98	25.37	24.84	24.09	23.56	23.49	23.49	23.58
Industrial 1/													
Liquefied Petroleum Gases	17.75	22.44	23.55	23.79	21.43	21.10	20.77	20.54	20.28	20.08	19.94	19.89	19.95
Distillate Fuel Oil	15.18	16.04	16.99	19.95	16.85	16.22	16.30	15.41	14.83	14.79	14.34	13.88	13.91
Residual Fuel Oil	10.22	9.19	8.63	12.36	12.28	11.53	10.97	10.29	9.76	9.51	8.95	8.51	8.50
Natural Gas 2/	8.66	8.03	7.59	7.89	8.04	7.73	7.41	7.19	6.94	6.75	6.61	6.56	6.62
Metallurgical Coal	3.59	3.85	4.19	4.57	4.56	4.40	4.31	4.18	4.12	4.04	3.93	3.85	3.81
Other Industrial Coal	2.36	2.46	2.55	2.62	2.61	2.57	2.55	2.51	2.49	2.48	2.46	2.45	2.44
Coal to Liquids	--	--	--	--	--	--	1.43	1.46	--	--	1.44	1.46	1.46
Electricity	14.88	15.76	17.27	18.14	18.80	18.32	17.60	17.14	16.47	16.00	15.95	15.96	16.04
Transportation													
Liquefied Petroleum Gases 3/	21.26	22.69	23.61	23.71	25.16	27.25	26.91	26.67	26.41	26.20	26.06	26.00	26.06
E85 4/	23.89	22.32	24.95	30.06	29.76	22.06	21.87	21.33	20.86	20.78	20.25	19.78	16.48
Motor Gasoline 5/	19.30	21.21	22.55	24.54	22.91	21.18	20.92	20.31	19.78	19.65	19.07	18.60	18.67
Jet Fuel 6/	13.01	14.47	14.65	15.37	16.03	15.49	15.08	14.30	13.64	13.30	12.73	12.32	12.34
Distillate Fuel Oil 7/	18.01	19.52	20.29	22.53	20.42	19.72	19.57	18.64	18.05	18.03	17.59	17.08	17.09
Residual Fuel Oil	8.93	6.47	8.69	9.63	11.98	11.23	10.71	10.12	9.57	9.32	8.76	8.31	8.31
Natural Gas 8/	15.15	14.59	13.99	14.24	14.36	13.97	13.61	13.33	13.03	12.79	12.61	12.51	12.52
Electricity	22.52	22.50	22.16	23.36	24.16	23.96	23.48	23.16	22.52	22.07	22.05	22.10	22.18
Electric Power 9/													
Distillate Fuel Oil	13.36	14.11	14.95	17.56	14.09	13.43	12.68	11.86	11.16	10.88	10.27	9.84	9.85
Residual Fuel Oil	7.79	7.83	8.30	10.05	10.90	10.14	9.61	8.32	7.88	7.68	7.21	6.84	6.83
Natural Gas	7.27	6.72	6.38	6.48	6.54	6.15	5.83	5.60	5.34	5.15	5.02	4.98	5.03
Steam Coal	1.44	1.55	1.59	1.63	1.69	1.69	1.68	1.64	1.62	1.60	1.58	1.57	1.57

Table 13. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	17.29	20.93	22.01	23.02	22.86	22.57	22.25	22.04	21.79	21.61	21.48	21.44	21.52
E85 4/	23.89	22.32	24.95	30.06	29.76	22.06	21.87	21.33	20.86	20.78	20.25	19.78	16.48
Motor Gasoline 5/	19.21	21.08	22.42	24.42	22.91	21.18	20.92	20.31	19.78	19.65	19.07	18.60	18.67
Jet Fuel	13.01	14.47	14.65	15.37	16.03	15.49	15.08	14.30	13.64	13.30	12.73	12.32	12.34
Distillate Fuel Oil	17.25	18.66	19.49	21.87	19.35	18.67	18.48	17.65	17.18	17.16	16.73	16.25	16.27
Residual Fuel Oil	10.02	8.64	8.43	11.75	12.23	11.48	10.92	10.27	9.73	9.49	8.93	8.49	8.48
Natural Gas	10.19	10.01	9.49	9.60	9.57	9.20	8.90	8.70	8.52	8.35	8.22	8.19	8.29
Metallurgical Coal	3.59	3.85	4.19	4.57	4.56	4.40	4.31	4.18	4.12	4.04	3.93	3.85	3.81
Other Coal	1.50	1.61	1.66	1.70	1.76	1.76	1.74	1.70	1.67	1.66	1.64	1.63	1.63
Coal to Liquids	--	--	--	--	--	--	1.43	1.46	--	--	1.44	1.46	1.46
Electricity	20.94	21.94	23.09	23.60	24.42	24.06	23.47	23.06	22.44	22.03	22.00	22.03	22.14
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	36.92	35.47	37.99	39.17	39.81	38.61	38.04	37.77	36.69	36.28	36.18	36.35	36.59
Commercial	23.37	23.42	24.84	25.57	25.97	25.59	25.30	25.12	24.81	24.72	24.95	25.28	25.75
Industrial	32.07	32.41	32.94	37.04	37.55	36.86	35.98	34.93	33.47	32.44	31.84	31.40	31.34
Transportation	70.31	78.12	83.08	89.50	82.84	77.73	76.87	74.63	72.77	72.40	70.37	68.65	64.83
Total Non-Renewable Expenditures	162.67	169.41	178.85	191.29	186.17	178.77	176.20	172.45	167.74	165.85	163.34	161.67	158.50
Transportation Renewable Expenditures	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	3.76
Total Expenditures	162.67	169.42	178.86	191.30	186.17	178.79	176.21	172.46	167.76	165.87	163.36	161.70	162.26

Table 13. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	22.55	22.60	22.48	22.34	22.48	22.58	22.72	22.84	22.98	23.07	23.30	23.47	23.63	0.7%
Distillate Fuel Oil	13.03	13.18	13.29	13.39	13.54	13.74	13.97	14.18	14.43	14.60	14.82	15.07	15.22	-0.5%
Natural Gas	10.24	10.32	10.22	10.12	10.27	10.41	10.57	10.72	10.91	11.00	11.25	11.45	11.63	-0.1%
Electricity	27.89	27.84	27.80	27.70	27.77	27.82	27.75	27.70	27.61	27.56	27.64	27.68	27.85	0.1%
Commercial														
Distillate Fuel Oil	12.26	12.58	12.85	12.82	12.98	13.11	13.27	13.50	13.73	13.91	14.11	14.36	14.60	0.0%
Residual Fuel	8.61	8.75	8.85	8.95	9.02	9.22	9.41	9.58	9.73	9.75	9.93	10.01	10.18	1.5%
Natural Gas	9.32	9.41	9.32	9.23	9.39	9.53	9.71	9.86	10.06	10.16	10.42	10.63	10.82	0.0%
Electricity	23.85	23.87	23.87	23.77	23.92	24.00	23.99	24.01	23.99	24.00	24.19	24.32	24.59	0.1%
Industrial 1/														
Liquefied Petroleum Gases	20.01	20.07	19.94	19.81	19.95	20.05	20.18	20.31	20.45	20.54	20.77	20.94	21.10	-0.3%
Distillate Fuel Oil	14.07	14.52	14.91	14.78	14.94	15.03	15.13	15.37	15.60	15.78	15.97	16.21	16.52	0.1%
Residual Fuel Oil	8.61	8.75	8.85	8.95	9.02	9.22	9.41	9.58	9.73	9.75	9.93	10.01	10.18	0.4%
Natural Gas 2/	6.69	6.73	6.62	6.49	6.62	6.72	6.85	6.97	7.12	7.19	7.41	7.58	7.73	-0.2%
Metallurgical Coal	3.79	3.81	3.83	3.85	3.87	3.89	3.91	3.93	3.96	3.98	4.00	4.02	4.05	0.2%
Other Industrial Coal	2.43	2.42	2.42	2.42	2.43	2.43	2.45	2.45	2.45	2.45	2.46	2.46	2.48	0.0%
Coal to Liquids	1.44	1.45	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	16.25	16.19	16.09	15.94	15.99	16.04	16.02	16.01	15.95	15.94	16.07	16.14	16.32	0.1%
Transportation														
Liquefied Petroleum Gases 3/	26.12	26.17	26.04	25.90	26.03	26.13	26.26	26.38	26.51	26.60	26.83	26.99	27.15	0.8%
E85 4/	16.61	17.94	17.55	16.97	17.08	17.77	18.29	18.18	18.59	18.73	19.04	19.38	19.45	-0.6%
Motor Gasoline 5/	18.88	19.49	19.98	19.73	19.86	19.91	19.92	20.13	20.24	20.37	20.59	20.80	20.98	0.0%
Jet Fuel 6/	12.50	12.66	12.80	12.96	13.12	13.30	13.48	13.68	13.89	14.12	14.35	14.58	14.83	0.1%
Distillate Fuel Oil 7/	17.22	17.70	18.08	17.91	18.04	18.09	18.12	18.35	18.56	18.72	18.87	19.10	19.42	0.0%
Residual Fuel Oil	8.42	8.56	8.66	8.76	8.75	8.92	9.11	9.28	9.43	9.45	9.63	9.71	9.87	1.8%
Natural Gas 8/	12.54	12.56	12.41	12.24	12.32	12.37	12.45	12.53	12.64	12.66	12.84	12.97	13.08	-0.5%
Electricity	22.36	22.27	22.16	21.97	22.01	21.79	21.77	21.79	21.74	21.73	21.88	21.94	22.12	-0.1%
Electric Power 9/														
Distillate Fuel Oil	9.99	10.14	10.24	10.35	10.50	10.69	10.93	11.14	11.39	11.56	11.78	12.03	12.18	-0.6%
Residual Fuel Oil	6.92	7.04	7.12	7.21	7.26	7.43	7.59	7.73	7.86	7.87	8.02	8.09	8.23	0.2%
Natural Gas	5.10	5.14	5.03	4.92	5.07	5.18	5.30	5.45	5.61	5.70	5.92	6.09	6.23	-0.3%
Steam Coal	1.56	1.56	1.57	1.56	1.57	1.58	1.58	1.59	1.59	1.59	1.60	1.61	1.62	0.2%

Table 13. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	21.60	21.67	21.56	21.44	21.58	21.69	21.84	21.98	22.12	22.23	22.47	22.64	22.81	0.4%
E85 4/	16.61	17.94	17.55	16.97	17.08	17.77	18.29	18.18	18.59	18.73	19.04	19.38	19.45	-0.6%
Motor Gasoline 5/	18.88	19.49	19.98	19.73	19.86	19.91	19.92	20.13	20.24	20.37	20.59	20.80	20.98	0.0%
Jet Fuel	12.50	12.66	12.80	12.96	13.12	13.30	13.48	13.68	13.89	14.12	14.35	14.58	14.83	0.1%
Distillate Fuel Oil	16.42	16.88	17.26	17.10	17.26	17.33	17.40	17.64	17.84	18.01	18.19	18.42	18.74	0.0%
Residual Fuel Oil	8.58	8.72	8.82	8.93	8.98	9.18	9.37	9.53	9.69	9.70	9.89	9.97	10.13	0.7%
Natural Gas	8.38	8.49	8.39	8.27	8.41	8.54	8.69	8.83	9.00	9.08	9.32	9.51	9.65	-0.2%
Metallurgical Coal	3.79	3.81	3.83	3.85	3.87	3.89	3.91	3.93	3.96	3.98	4.00	4.02	4.05	0.2%
Other Coal	1.61	1.61	1.62	1.62	1.63	1.63	1.64	1.64	1.64	1.65	1.66	1.66	1.67	0.2%
Coal to Liquids	1.44	1.45	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	22.39	22.37	22.35	22.24	22.36	22.45	22.46	22.47	22.44	22.46	22.63	22.75	22.99	0.2%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	37.00	37.18	37.13	36.92	37.35	37.72	38.17	38.43	38.83	39.11	39.80	40.19	40.72	0.6%
Commercial	26.34	26.74	27.00	27.18	27.75	28.22	28.66	29.10	29.56	29.97	30.66	31.25	31.95	1.3%
Industrial	31.36	31.37	31.12	30.70	30.82	30.86	30.88	30.98	31.09	31.10	31.37	31.43	31.60	-0.1%
Transportation	64.76	66.22	67.01	65.79	65.82	65.72	65.71	66.13	66.59	67.06	67.76	68.61	69.50	-0.5%
Total Non-Renewable Expenditures	159.45	161.51	162.25	160.60	161.73	162.53	163.41	164.65	166.08	167.24	169.60	171.48	173.77	0.1%
Transportation Renewable Expenditures	4.38	4.92	5.21	5.34	5.63	6.04	6.28	6.50	6.71	6.87	7.06	7.20	7.36	33.5%
Total Expenditures	163.84	166.43	167.47	165.94	167.37	168.56	169.69	171.15	172.79	174.11	176.66	178.68	181.13	0.3%

Table 13. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-East North Central - 03

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 14. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	14.52	20.03	21.47	23.30	21.64	21.23	20.93	20.72	20.46	20.26	20.14	20.10	20.16
Distillate Fuel Oil	15.81	16.70	18.42	21.47	16.33	15.71	15.16	14.34	13.66	13.38	12.76	12.33	12.35
Natural Gas	11.88	12.23	11.74	11.89	11.86	11.27	10.99	10.79	10.57	10.41	10.30	10.28	10.39
Electricity	23.56	23.90	24.52	24.49	25.75	26.17	25.89	25.41	25.46	25.44	25.15	25.08	25.12
Commercial													
Distillate Fuel Oil	13.33	14.08	16.86	19.14	15.34	14.72	14.48	13.61	13.00	12.85	12.33	11.89	11.92
Residual Fuel	9.59	10.27	9.65	13.81	11.56	10.78	10.22	7.85	7.66	7.61	7.26	7.13	7.07
Natural Gas	10.66	10.69	10.19	10.52	10.51	9.88	9.60	9.40	9.18	9.01	8.92	8.90	9.00
Electricity	19.18	19.48	20.79	21.18	22.03	22.48	22.21	21.74	21.42	21.22	20.92	20.88	20.92
Industrial 1/													
Liquefied Petroleum Gases	17.75	17.31	18.17	18.34	21.53	21.12	20.82	20.60	20.35	20.15	20.03	19.99	20.05
Distillate Fuel Oil	14.57	15.40	16.82	20.19	16.51	15.89	16.00	15.10	14.54	14.49	14.04	13.58	13.63
Residual Fuel Oil	9.59	8.90	8.34	11.96	11.56	10.78	10.22	7.85	7.66	7.61	7.26	7.13	7.07
Natural Gas 2/	8.17	7.45	7.31	7.93	8.15	7.76	7.47	7.26	7.01	6.83	6.71	6.67	6.73
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	1.22	1.39	1.46	1.51	1.50	1.48	1.51	1.49	1.50	1.51	1.52	1.51	1.52
Coal to Liquids	--	--	--	--	--	--	0.95	0.93	0.94	0.95	0.99	0.99	1.01
Electricity	14.27	14.56	15.08	15.71	16.27	16.51	16.18	15.84	15.63	15.50	15.28	15.24	15.27
Transportation													
Liquefied Petroleum Gases 3/	21.51	22.96	23.89	24.00	25.44	27.44	27.13	26.91	26.65	26.45	26.33	26.28	26.34
E85 4/	23.89	22.32	24.95	24.79	24.55	21.96	21.76	21.22	20.75	20.69	16.53	16.42	16.11
Motor Gasoline 5/	19.04	20.81	22.12	24.06	22.98	21.08	20.80	20.20	19.66	19.54	18.95	18.48	18.55
Jet Fuel 6/	13.23	14.97	15.14	15.88	16.63	15.94	15.51	14.70	14.02	13.67	13.09	12.67	12.68
Distillate Fuel Oil 7/	17.66	20.06	20.84	23.15	20.12	19.42	19.27	18.34	17.76	17.73	17.29	16.78	16.81
Residual Fuel Oil	6.99	6.89	6.37	7.56	11.66	10.87	10.36	9.75	9.22	8.97	8.41	7.96	7.96
Natural Gas 8/	12.81	12.18	11.75	12.14	12.27	11.78	11.43	11.16	10.85	10.62	10.46	10.38	10.39
Electricity	18.43	18.56	18.51	19.46	20.16	20.63	20.45	20.20	20.04	19.97	19.81	19.86	19.95
Electric Power 9/													
Distillate Fuel Oil	12.82	13.55	14.81	17.77	13.89	13.28	12.72	11.90	11.22	10.94	10.33	9.90	9.91
Residual Fuel Oil	6.23	6.15	6.51	7.90	10.23	9.44	8.90	7.47	7.10	6.94	6.48	6.18	6.15
Natural Gas	7.95	6.49	6.75	7.09	7.17	6.68	6.37	6.15	5.88	5.70	5.59	5.55	5.60
Steam Coal	1.01	1.11	1.17	1.21	1.24	1.28	1.29	1.27	1.27	1.28	1.27	1.26	1.27

Table 14. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	16.54	18.09	19.09	19.81	21.62	21.23	20.93	20.72	20.46	20.27	20.15	20.10	20.17
E85 4/	23.89	22.32	24.95	24.79	24.55	21.96	21.76	21.22	20.75	20.69	16.53	16.42	16.11
Motor Gasoline 5/	18.89	20.58	21.90	23.86	22.98	21.08	20.80	20.20	19.66	19.54	18.95	18.48	18.55
Jet Fuel	13.23	14.97	15.14	15.88	16.63	15.94	15.51	14.70	14.02	13.67	13.09	12.67	12.68
Distillate Fuel Oil	16.66	18.67	19.58	22.16	18.79	18.13	18.02	17.19	16.73	16.69	16.24	15.78	15.81
Residual Fuel Oil	8.19	8.42	7.63	11.63	11.56	10.77	10.22	8.09	7.87	7.80	7.40	7.23	7.18
Natural Gas	10.02	9.62	9.54	9.87	9.82	9.26	8.96	8.75	8.54	8.35	8.23	8.19	8.27
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.02	1.13	1.20	1.24	1.26	1.30	1.31	1.29	1.29	1.29	1.29	1.28	1.28
Coal to Liquids	--	--	--	--	--	--	0.95	0.93	0.94	0.95	0.99	0.99	1.01
Electricity	19.32	19.57	20.43	20.68	21.75	22.09	21.77	21.34	21.15	21.02	20.74	20.69	20.73
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	14.78	14.74	15.92	16.36	16.48	16.33	16.11	15.91	15.56	15.44	15.29	15.32	15.38
Commercial	9.80	9.84	10.56	10.86	11.13	11.19	11.15	11.06	11.03	11.07	11.08	11.22	11.41
Industrial	14.83	15.05	15.84	18.03	18.58	18.73	18.63	17.93	17.26	16.98	16.72	16.53	16.58
Transportation	35.84	39.77	42.26	46.19	43.40	40.97	40.89	39.90	39.09	39.05	36.23	35.24	35.20
Total Non-Renewable Expenditures	75.26	79.41	84.57	91.43	89.60	87.22	86.78	84.80	82.94	82.54	79.33	78.31	78.57
Transportation Renewable Expenditures	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	1.43	1.59	1.72
Total Expenditures	75.26	79.41	84.58	91.44	89.60	87.23	86.79	84.81	82.95	82.55	80.76	79.89	80.29

Table 14. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	20.22	20.27	20.08	19.91	20.07	20.18	20.32	20.47	20.63	20.77	20.98	21.17	21.35	0.3%
Distillate Fuel Oil	12.49	12.63	12.74	12.85	13.00	13.19	13.43	13.64	13.88	14.06	14.28	14.53	14.68	-0.5%
Natural Gas	10.49	10.58	10.42	10.31	10.47	10.63	10.81	10.98	11.20	11.32	11.56	11.80	11.99	-0.1%
Electricity	25.19	25.16	25.16	25.09	25.04	25.03	24.99	24.94	24.88	24.83	24.81	24.86	24.93	0.2%
Commercial														
Distillate Fuel Oil	12.06	12.38	12.65	12.62	12.78	12.91	13.07	13.30	13.53	13.71	13.91	14.16	14.40	0.1%
Residual Fuel	7.26	7.69	8.06	8.21	8.30	8.51	8.70	8.86	9.01	9.03	9.21	9.30	9.46	-0.3%
Natural Gas	9.10	9.18	9.03	8.91	9.08	9.24	9.42	9.58	9.80	9.93	10.17	10.39	10.58	0.0%
Electricity	21.01	20.99	20.95	20.84	20.80	20.81	20.83	20.79	20.78	20.78	20.85	20.93	21.07	0.3%
Industrial 1/														
Liquefied Petroleum Gases	20.11	20.16	19.97	19.80	19.95	20.07	20.21	20.36	20.52	20.65	20.87	21.06	21.24	0.9%
Distillate Fuel Oil	13.77	14.22	14.60	14.47	14.64	14.73	14.83	15.07	15.30	15.48	15.67	15.91	16.22	0.2%
Residual Fuel Oil	7.26	7.69	8.06	8.21	8.30	8.51	8.70	8.86	9.01	9.03	9.21	9.30	9.46	0.3%
Natural Gas 2/	6.79	6.83	6.65	6.49	6.64	6.75	6.88	7.02	7.20	7.31	7.51	7.70	7.87	0.2%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	1.59	1.59	1.59	1.58	1.60	1.61	1.62	1.63	1.65	1.66	1.67	1.67	1.68	0.8%
Coal to Liquids	1.20	1.18	1.18	1.17	1.20	1.20	1.22	1.22	1.24	1.25	1.27	1.25	1.26	--
Electricity	15.33	15.31	15.29	15.21	15.17	15.19	15.19	15.16	15.15	15.13	15.17	15.22	15.31	0.2%
Transportation														
Liquefied Petroleum Gases 3/	26.39	26.43	26.24	26.07	26.22	26.33	26.46	26.60	26.76	26.89	27.10	27.29	27.46	0.7%
E85 4/	16.25	17.59	17.10	16.87	16.99	17.45	18.02	17.88	18.30	18.46	18.75	19.09	19.16	-0.6%
Motor Gasoline 5/	18.77	19.38	19.88	19.62	19.75	19.81	19.81	20.02	20.14	20.26	20.48	20.69	20.89	0.0%
Jet Fuel 6/	12.82	12.98	13.11	13.26	13.42	13.59	13.77	13.96	14.17	14.40	14.62	14.85	15.10	0.0%
Distillate Fuel Oil 7/	16.92	17.40	17.78	17.61	17.74	17.79	17.82	18.05	18.26	18.42	18.57	18.80	19.12	-0.2%
Residual Fuel Oil	8.07	8.21	8.31	8.41	8.43	8.60	8.79	8.96	9.11	9.13	9.31	9.39	9.56	1.4%
Natural Gas 8/	10.41	10.41	10.18	9.98	10.08	10.15	10.23	10.33	10.47	10.53	10.69	10.84	10.97	-0.4%
Electricity	20.06	20.09	20.11	20.05	20.07	19.10	19.18	19.24	19.35	19.44	19.58	19.71	19.86	0.3%
Electric Power 9/														
Distillate Fuel Oil	10.05	10.20	10.31	10.41	10.56	10.76	10.99	11.20	11.45	11.62	11.84	12.09	12.24	-0.4%
Residual Fuel Oil	6.30	6.57	6.80	6.93	6.98	7.17	7.36	7.52	7.68	7.69	7.88	7.96	8.12	1.2%
Natural Gas	5.66	5.69	5.50	5.34	5.49	5.59	5.72	5.86	6.03	6.16	6.37	6.55	6.73	0.1%
Steam Coal	1.30	1.31	1.32	1.31	1.32	1.33	1.33	1.34	1.35	1.36	1.37	1.37	1.38	0.9%

Table 14. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	20.23	20.28	20.09	19.92	20.08	20.19	20.34	20.48	20.65	20.78	20.99	21.19	21.37	0.7%
E85 4/	16.25	17.59	17.10	16.87	16.99	17.45	18.02	17.88	18.30	18.46	18.75	19.09	19.16	-0.6%
Motor Gasoline 5/	18.76	19.38	19.88	19.62	19.75	19.81	19.81	20.02	20.14	20.26	20.48	20.69	20.88	0.1%
Jet Fuel	12.82	12.98	13.11	13.26	13.42	13.59	13.77	13.96	14.17	14.40	14.62	14.85	15.10	0.0%
Distillate Fuel Oil	15.94	16.40	16.79	16.63	16.78	16.84	16.91	17.15	17.36	17.53	17.71	17.95	18.26	-0.1%
Residual Fuel Oil	7.37	7.76	8.09	8.23	8.31	8.51	8.70	8.87	9.02	9.04	9.22	9.31	9.47	0.5%
Natural Gas	8.35	8.43	8.25	8.09	8.27	8.42	8.58	8.74	8.95	9.07	9.27	9.51	9.69	0.0%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.32	1.32	1.33	1.33	1.34	1.34	1.35	1.36	1.37	1.38	1.39	1.39	1.40	0.9%
Coal to Liquids	1.20	1.18	1.18	1.17	1.20	1.20	1.22	1.22	1.24	1.25	1.27	1.25	1.26	--
Electricity	20.80	20.79	20.78	20.70	20.68	20.70	20.71	20.69	20.68	20.67	20.73	20.81	20.94	0.3%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	15.49	15.55	15.50	15.41	15.53	15.65	15.81	15.89	16.04	16.15	16.36	16.51	16.68	0.5%
Commercial	11.62	11.79	11.88	11.95	12.14	12.33	12.54	12.72	12.93	13.11	13.37	13.62	13.89	1.4%
Industrial	16.58	16.62	16.44	16.22	16.28	16.32	16.39	16.46	16.60	16.67	16.82	16.94	17.09	0.5%
Transportation	35.38	36.26	36.82	36.22	36.31	36.30	36.33	36.63	36.92	37.22	37.64	38.14	38.69	-0.1%
Total Non-Renewable Expenditures	79.08	80.22	80.65	79.80	80.26	80.61	81.06	81.70	82.50	83.15	84.20	85.21	86.35	0.3%
Transportation Renewable Expenditures	1.88	2.13	2.23	2.34	2.47	2.63	2.77	2.85	2.96	3.05	3.14	3.22	3.29	34.6%
Total Expenditures	80.96	82.35	82.88	82.14	82.73	83.24	83.83	84.55	85.47	86.20	87.33	88.43	89.64	0.5%

Table 14. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West North Central - 04

1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Excludes use for lease and plant fuel.

3/ Includes Federal and State taxes while excluding county and local taxes.

4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.

7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 15. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Sough Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	21.58	25.46	27.28	29.60	28.25	27.92	27.64	27.46	27.20	26.99	26.84	26.78	26.84
Distillate Fuel Oil	17.21	18.18	19.35	21.51	17.86	17.20	16.51	15.80	15.10	14.83	14.25	13.82	13.83
Natural Gas	15.65	16.86	14.31	14.24	14.35	13.89	13.66	13.48	13.31	13.15	13.03	13.02	13.15
Electricity	26.75	28.72	28.81	28.62	29.83	29.85	29.13	28.71	28.44	28.11	27.88	27.80	27.82
Commercial													
Distillate Fuel Oil	13.41	14.17	16.27	18.44	15.51	14.86	14.52	13.72	13.10	12.96	12.46	12.01	12.04
Residual Fuel	10.45	8.28	7.77	11.13	11.58	10.83	10.27	9.58	9.05	8.80	8.24	7.79	7.78
Natural Gas	12.92	13.21	11.43	11.71	11.96	11.41	11.16	11.01	10.79	10.61	10.48	10.46	10.56
Electricity	22.71	24.91	25.60	25.86	26.86	26.79	26.02	25.65	25.08	24.58	24.36	24.31	24.32
Industrial 1/													
Liquefied Petroleum Gases	17.28	21.59	22.66	22.90	22.65	22.31	22.04	21.86	21.60	21.39	21.23	21.18	21.24
Distillate Fuel Oil	13.97	14.76	16.85	19.38	16.09	15.45	15.50	14.63	14.07	14.03	13.59	13.13	13.16
Residual Fuel Oil	10.61	9.36	8.77	12.58	11.58	10.83	10.27	9.58	9.05	8.80	8.24	7.79	7.78
Natural Gas 2/	9.37	8.56	7.36	7.95	8.42	8.10	7.84	7.66	7.41	7.21	7.06	7.01	7.07
Metallurgical Coal	2.81	3.02	3.34	3.49	3.51	3.54	3.39	3.25	3.15	3.04	2.91	2.82	2.78
Other Industrial Coal	2.93	2.96	3.03	3.12	3.09	2.98	2.89	2.80	2.76	2.73	2.69	2.67	2.64
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	16.05	16.04	17.18	17.76	18.40	18.21	17.66	17.33	16.90	16.56	16.42	16.40	16.41
Transportation													
Liquefied Petroleum Gases 3/	20.59	21.97	22.87	22.98	24.11	26.18	25.90	25.71	25.45	25.23	25.07	25.01	25.07
E85 4/	23.89	23.95	24.89	22.63	22.40	20.73	19.77	24.12	18.84	18.72	18.62	18.17	19.37
Motor Gasoline 5/	18.39	20.59	21.88	23.81	22.38	20.92	19.97	19.38	18.85	18.72	18.15	17.68	17.75
Jet Fuel 6/	12.98	14.89	15.06	15.80	16.97	16.44	15.99	15.22	14.60	14.27	13.70	13.30	13.33
Distillate Fuel Oil 7/	17.58	19.17	19.92	22.13	19.99	19.29	19.10	18.16	17.60	17.58	17.14	16.63	16.64
Residual Fuel Oil	8.18	7.87	8.12	9.67	11.13	10.30	9.78	9.17	8.63	8.39	7.82	7.38	7.37
Natural Gas 8/	14.99	14.29	12.85	13.26	13.64	13.24	12.92	12.72	12.41	12.17	11.99	11.90	11.92
Electricity	22.83	23.39	22.78	23.61	24.46	24.42	23.79	23.47	22.96	22.54	22.35	22.32	22.32
Electric Power 9/													
Distillate Fuel Oil	12.29	12.99	14.82	17.05	14.50	13.84	13.15	12.44	11.74	11.47	10.89	10.46	10.47
Residual Fuel Oil	7.18	7.85	8.31	10.08	11.13	10.34	9.80	9.15	8.62	8.37	7.81	7.36	7.35
Natural Gas	9.15	8.21	7.20	7.52	7.83	7.44	7.18	7.18	6.86	6.61	6.44	6.37	6.40
Steam Coal	2.30	2.31	2.33	2.37	2.43	2.44	2.36	2.30	2.26	2.23	2.21	2.19	2.18

Table 15. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-Souh Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	19.92	24.17	25.32	26.76	26.22	25.91	25.65	25.51	25.27	25.08	24.94	24.88	24.96
E85 4/	23.89	23.95	24.89	22.63	22.40	20.73	19.77	24.12	18.84	18.72	18.62	18.17	19.37
Motor Gasoline 5/	18.32	20.47	21.77	23.70	22.38	20.92	19.97	19.38	18.85	18.72	18.15	17.68	17.75
Jet Fuel	12.98	14.89	15.06	15.80	16.97	16.44	15.99	15.22	14.60	14.27	13.70	13.30	13.33
Distillate Fuel Oil	16.58	18.11	19.14	21.39	18.87	18.19	17.98	17.16	16.70	16.66	16.20	15.72	15.74
Residual Fuel Oil	8.08	8.25	8.38	10.73	11.28	10.48	9.93	9.28	8.74	8.50	7.93	7.49	7.48
Natural Gas	11.17	10.55	9.41	9.73	10.11	9.63	9.39	9.26	9.04	8.86	8.75	8.74	8.86
Metallurgical Coal	2.81	3.02	3.34	3.49	3.51	3.54	3.39	3.25	3.15	3.04	2.91	2.82	2.78
Other Coal	2.34	2.34	2.37	2.42	2.47	2.47	2.40	2.32	2.29	2.26	2.24	2.22	2.21
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	23.01	24.73	25.35	25.43	26.45	26.38	25.68	25.32	24.89	24.51	24.32	24.29	24.32
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	41.97	43.31	44.00	45.14	47.30	47.60	47.28	47.48	46.77	46.77	47.00	47.66	48.36
Commercial	28.39	31.57	32.90	34.13	35.06	35.11	34.78	34.89	34.82	34.92	35.33	35.98	36.75
Industrial	25.19	24.58	24.51	27.60	28.61	27.96	27.38	26.51	25.46	24.81	24.22	23.82	23.73
Transportation	90.71	101.84	108.35	117.62	110.89	105.33	102.26	99.81	97.90	98.04	95.85	94.10	95.07
Total Non-Renewable Expenditures	186.25	201.30	209.76	224.50	221.87	216.00	211.69	208.69	204.95	204.54	202.41	201.57	203.91
Transportation Renewable Expenditures	0.00	0.01	0.01	0.03	0.02	0.02	0.02	0.04	0.02	0.03	0.02	0.03	0.02
Total Expenditures	186.26	201.31	209.77	224.53	221.88	216.02	211.71	208.72	204.98	204.57	202.43	201.60	203.93

Table 15. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Souh Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	26.92	26.99	26.97	26.90	27.03	27.11	27.24	27.35	27.44	27.48	27.72	27.85	27.99	0.4%
Distillate Fuel Oil	13.97	14.12	14.23	14.33	14.44	14.64	14.87	15.08	15.33	15.50	15.72	15.97	16.21	-0.5%
Natural Gas	13.30	13.43	13.45	13.45	13.63	13.78	13.98	14.17	14.36	14.44	14.75	14.97	15.17	-0.4%
Electricity	27.96	27.97	27.96	27.86	27.94	28.00	28.02	28.06	28.07	28.06	28.11	28.18	28.34	-0.1%
Commercial														
Distillate Fuel Oil	12.19	12.51	12.78	12.75	12.89	13.02	13.18	13.41	13.64	13.82	14.02	14.27	14.56	0.1%
Residual Fuel	7.90	8.04	8.14	8.24	8.31	8.48	8.67	8.84	9.02	9.04	9.23	9.31	9.48	0.6%
Natural Gas	10.68	10.79	10.81	10.78	10.94	11.06	11.24	11.39	11.55	11.60	11.88	12.06	12.23	-0.3%
Electricity	24.45	24.43	24.39	24.21	24.25	24.32	24.35	24.38	24.39	24.41	24.51	24.54	24.71	0.0%
Industrial 1/														
Liquefied Petroleum Gases	21.32	21.39	21.37	21.30	21.42	21.50	21.64	21.74	21.84	21.87	22.12	22.25	22.38	0.1%
Distillate Fuel Oil	13.32	13.77	14.16	14.03	14.19	14.28	14.38	14.62	14.85	15.03	15.22	15.47	15.79	0.3%
Residual Fuel Oil	7.90	8.04	8.14	8.24	8.31	8.48	8.67	8.84	9.02	9.04	9.23	9.31	9.48	0.1%
Natural Gas 2/	7.15	7.21	7.19	7.13	7.24	7.32	7.45	7.55	7.67	7.68	7.91	8.04	8.17	-0.2%
Metallurgical Coal	2.76	2.78	2.80	2.81	2.83	2.85	2.87	2.89	2.91	2.93	2.94	2.96	2.98	-0.1%
Other Industrial Coal	2.62	2.61	2.62	2.62	2.62	2.62	2.62	2.61	2.61	2.61	2.61	2.62	2.63	-0.5%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	16.52	16.50	16.46	16.31	16.31	16.32	16.33	16.35	16.34	16.35	16.43	16.46	16.56	0.1%
Transportation														
Liquefied Petroleum Gases 3/	25.15	25.21	25.19	25.11	25.23	25.31	25.43	25.54	25.63	25.66	25.90	26.02	26.15	0.7%
E85 4/	19.64	20.31	24.25	16.75	17.52	20.21	20.22	20.43	20.54	20.66	20.88	21.08	21.27	-0.5%
Motor Gasoline 5/	17.96	18.57	19.05	18.80	18.93	18.98	18.99	19.19	19.30	19.42	19.64	19.85	20.04	-0.1%
Jet Fuel 6/	13.49	13.66	13.81	13.97	14.13	14.31	14.50	14.70	14.92	15.15	15.38	15.62	15.87	0.3%
Distillate Fuel Oil 7/	16.76	17.25	17.63	17.46	17.60	17.65	17.68	17.91	18.12	18.28	18.43	18.66	18.99	0.0%
Residual Fuel Oil	7.48	7.62	7.72	7.83	7.89	8.06	8.26	8.42	8.61	8.63	8.81	8.90	9.06	0.6%
Natural Gas 8/	11.96	12.01	11.96	11.86	11.95	11.98	12.08	12.14	12.23	12.20	12.40	12.49	12.59	-0.5%
Electricity	22.43	22.41	22.37	22.21	22.25	21.84	21.91	21.97	22.02	22.06	22.18	22.24	22.39	-0.2%
Electric Power 9/														
Distillate Fuel Oil	10.61	10.76	10.87	10.97	11.08	11.28	11.51	11.72	11.97	12.14	12.36	12.61	12.85	0.0%
Residual Fuel Oil	7.47	7.61	7.71	7.81	7.88	8.05	8.24	8.41	8.59	8.61	8.80	8.88	9.05	0.6%
Natural Gas	6.44	6.50	6.44	6.37	6.49	6.54	6.66	6.76	6.84	6.89	7.11	7.21	7.33	-0.5%
Steam Coal	2.14	2.14	2.14	2.15	2.15	2.15	2.15	2.15	2.14	2.14	2.15	2.16	2.17	-0.3%

Table 15. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Souh Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	25.07	25.16	25.17	25.16	25.31	25.41	25.56	25.67	25.78	25.83	26.09	26.22	26.37	0.4%
E85 4/	19.64	20.31	24.25	16.75	17.52	20.21	20.22	20.43	20.54	20.66	20.88	21.08	21.27	-0.5%
Motor Gasoline 5/	17.96	18.57	19.05	18.80	18.93	18.98	18.98	19.19	19.30	19.42	19.64	19.85	20.04	-0.1%
Jet Fuel	13.49	13.66	13.81	13.97	14.13	14.31	14.50	14.70	14.92	15.15	15.38	15.62	15.87	0.3%
Distillate Fuel Oil	15.89	16.35	16.74	16.59	16.75	16.82	16.91	17.15	17.36	17.53	17.71	17.95	18.27	0.0%
Residual Fuel Oil	7.59	7.73	7.83	7.93	8.00	8.17	8.36	8.53	8.71	8.73	8.92	9.00	9.17	0.4%
Natural Gas	8.99	9.13	9.18	9.17	9.34	9.47	9.66	9.80	9.94	9.97	10.22	10.40	10.57	0.0%
Metallurgical Coal	2.76	2.78	2.80	2.81	2.83	2.85	2.87	2.89	2.91	2.93	2.94	2.96	2.98	-0.1%
Other Coal	2.16	2.16	2.16	2.17	2.17	2.17	2.17	2.17	2.16	2.16	2.17	2.18	2.19	-0.3%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	24.48	24.50	24.49	24.37	24.44	24.52	24.57	24.61	24.64	24.67	24.77	24.83	25.01	0.0%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	49.33	50.08	50.69	51.03	51.91	52.80	53.76	54.54	55.45	56.24	57.38	58.23	59.33	1.3%
Commercial	37.69	38.47	39.17	39.68	40.57	41.48	42.36	43.23	44.09	44.89	45.94	46.83	47.93	1.8%
Industrial	23.68	23.78	23.86	23.57	23.70	23.77	23.95	24.21	24.44	24.60	24.91	25.09	25.32	0.1%
Transportation	96.75	100.17	102.95	100.88	101.75	104.92	105.92	107.99	109.78	111.64	113.96	116.39	119.06	0.7%
Total Non-Renewable Expenditures	207.45	212.49	216.67	215.16	217.93	222.97	226.00	229.96	233.76	237.38	242.19	246.53	251.63	0.9%
Transportation Renewable Expenditures	0.02	0.02	0.05	1.45	2.00	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	9.9%
Total Expenditures	207.47	212.52	216.72	216.61	219.93	223.02	226.05	230.02	233.81	237.44	242.25	246.60	251.70	0.9%

Table 15. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-South Atlantic - 05

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
- 2/ Excludes use for lease and plant fuel.
- 3/ Includes Federal and State taxes while excluding county and local taxes.
- 4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
- 5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
- 7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
- 8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
- 9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
- Btu = British thermal unit.
-- = Not applicable.
- Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.
- Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results.
- 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 16. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	19.51	24.65	26.40	28.66	26.56	26.21	25.92	25.73	25.51	25.31	25.16	25.11	25.18
Distillate Fuel Oil	17.45	18.44	20.62	22.93	17.63	16.97	16.18	15.35	14.69	14.41	13.79	13.36	13.37
Natural Gas	13.90	14.95	13.05	13.10	12.89	12.36	12.09	11.91	11.74	11.57	11.43	11.40	11.50
Electricity	22.49	24.03	25.81	25.69	26.83	26.67	26.17	25.73	25.47	25.19	24.99	24.94	24.98
Commercial													
Distillate Fuel Oil	13.31	14.06	16.15	18.28	15.48	14.84	14.46	13.59	13.00	12.86	12.33	11.89	11.92
Residual Fuel	10.94	7.29	6.85	9.79	12.44	11.68	11.08	10.40	9.90	9.65	9.08	8.64	8.63
Natural Gas	12.51	13.02	11.25	11.51	11.65	11.09	10.83	10.67	10.50	10.34	10.22	10.21	10.32
Electricity	21.78	23.26	22.88	23.19	24.10	24.00	23.47	23.05	22.50	22.06	21.83	21.79	21.82
Industrial 1/													
Liquefied Petroleum Gases	17.50	18.97	19.92	20.11	20.99	20.64	20.34	20.15	19.94	19.74	19.59	19.54	19.60
Distillate Fuel Oil	14.20	15.00	17.12	19.71	16.47	15.86	15.92	15.03	14.49	14.44	13.99	13.53	13.57
Residual Fuel Oil	10.45	9.76	9.16	13.11	12.44	11.68	11.08	10.40	9.90	9.65	9.08	8.64	8.63
Natural Gas 2/	8.88	8.13	7.27	7.77	8.13	7.80	7.51	7.33	7.12	6.93	6.79	6.74	6.80
Metallurgical Coal	3.09	3.35	3.70	3.88	3.89	3.88	3.79	3.68	3.63	3.57	3.47	3.40	3.35
Other Industrial Coal	2.73	2.82	2.92	2.98	2.96	2.86	2.80	2.74	2.71	2.69	2.67	2.65	2.63
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	13.24	14.15	15.98	16.61	17.22	17.08	16.60	16.25	15.84	15.51	15.37	15.35	15.37
Transportation													
Liquefied Petroleum Gases 3/	20.81	22.21	23.12	23.22	25.11	27.16	26.86	26.67	26.45	26.24	26.09	26.03	26.10
E85 4/	23.89	25.06	24.36	28.55	28.27	28.28	26.89	26.10	25.40	25.23	24.46	23.84	23.93
Motor Gasoline 5/	18.54	20.53	21.82	23.74	22.36	20.95	19.92	19.34	18.82	18.70	18.12	17.66	17.73
Jet Fuel 6/	12.95	14.54	14.70	15.43	16.17	15.67	15.23	14.48	13.87	13.55	12.99	12.61	12.64
Distillate Fuel Oil 7/	17.34	19.17	19.92	22.13	20.23	19.54	19.34	18.41	17.86	17.83	17.39	16.87	16.91
Residual Fuel Oil	7.39	6.21	7.26	9.03	12.60	11.84	11.28	10.69	10.17	9.92	9.36	8.91	8.90
Natural Gas 8/	17.40	17.51	16.04	16.40	16.69	16.29	15.96	15.73	15.47	15.24	15.06	14.97	14.99
Electricity	21.01	21.22	20.39	21.27	22.03	21.95	21.51	21.18	20.72	20.36	20.19	20.19	20.22
Electric Power 9/													
Distillate Fuel Oil	12.50	13.20	15.06	17.34	14.45	13.79	12.99	12.17	11.50	11.22	10.60	10.17	10.18
Residual Fuel Oil	5.81	7.34	7.77	9.43	10.56	9.80	9.22	8.59	8.08	7.83	7.26	6.82	6.81
Natural Gas	9.48	7.00	6.73	7.12	7.37	6.97	6.67	6.48	6.26	6.07	5.93	5.88	5.94
Steam Coal	1.82	1.89	1.94	1.99	2.04	2.05	2.01	1.97	1.94	1.91	1.89	1.86	1.85

Table 16. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	18.36	21.77	22.86	24.11	23.79	23.46	23.19	23.03	22.83	22.65	22.52	22.49	22.57
E85 4/	23.89	25.06	24.36	28.55	28.27	28.28	26.89	26.10	25.40	25.23	24.46	23.84	23.93
Motor Gasoline 5/	18.44	20.37	21.68	23.61	22.36	20.95	19.92	19.34	18.82	18.70	18.12	17.66	17.73
Jet Fuel	12.95	14.54	14.70	15.43	16.17	15.67	15.23	14.48	13.87	13.55	12.99	12.61	12.64
Distillate Fuel Oil	16.59	18.05	19.25	21.51	19.21	18.53	18.34	17.52	17.10	17.06	16.61	16.13	16.16
Residual Fuel Oil	6.80	7.19	7.78	10.17	12.49	11.74	11.16	10.55	10.03	9.79	9.22	8.77	8.77
Natural Gas	10.45	9.51	8.20	8.61	9.01	8.55	8.30	8.12	7.97	7.80	7.66	7.62	7.71
Metallurgical Coal	3.09	3.35	3.70	3.88	3.89	3.88	3.79	3.68	3.63	3.57	3.47	3.40	3.35
Other Coal	1.88	1.95	2.01	2.06	2.10	2.10	2.06	2.02	1.98	1.95	1.93	1.90	1.90
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	18.69	19.97	21.28	21.52	22.59	22.43	21.92	21.53	21.11	20.79	20.62	20.60	20.65
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	12.57	13.16	14.12	14.14	15.10	15.02	14.88	14.83	14.54	14.47	14.46	14.59	14.72
Commercial	8.29	8.71	8.68	8.83	9.21	9.20	9.14	9.12	9.08	9.08	9.14	9.28	9.45
Industrial	15.04	15.40	16.24	17.60	18.10	17.85	17.58	17.10	16.53	16.13	15.78	15.56	15.53
Transportation	33.29	37.59	39.94	43.72	41.40	39.78	38.84	37.95	37.25	37.26	36.38	35.63	35.86
Total Non-Renewable Expenditures	69.20	74.86	78.98	84.28	83.82	81.84	80.45	79.00	77.40	76.94	75.76	75.06	75.57
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Expenditures	69.20	74.87	78.98	84.28	83.82	81.84	80.45	79.01	77.40	76.94	75.77	75.06	75.57

Table 16. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	25.26	25.33	25.31	25.24	25.37	25.46	25.59	25.70	25.79	25.83	26.09	26.22	26.35	0.3%
Distillate Fuel Oil	13.51	13.66	13.77	13.88	14.05	14.24	14.48	14.69	14.94	15.12	15.33	15.59	15.74	-0.7%
Natural Gas	11.63	11.73	11.73	11.68	11.84	11.97	12.13	12.28	12.43	12.46	12.75	12.93	13.09	-0.6%
Electricity	25.15	25.19	25.22	25.13	25.13	25.07	25.06	25.09	25.10	25.12	25.22	25.33	25.41	0.2%
Commercial														
Distillate Fuel Oil	12.06	12.38	12.66	12.63	12.80	12.94	13.10	13.33	13.56	13.74	13.94	14.20	14.44	0.1%
Residual Fuel	8.74	8.89	8.99	9.10	9.17	9.38	9.57	9.74	9.89	9.91	10.10	10.18	10.35	1.5%
Natural Gas	10.46	10.58	10.60	10.57	10.74	10.88	11.07	11.22	11.38	11.43	11.74	11.92	12.10	-0.3%
Electricity	21.99	22.05	22.08	21.96	21.97	21.92	21.94	21.98	22.00	22.04	22.18	22.29	22.38	-0.2%
Industrial 1/														
Liquefied Petroleum Gases	19.69	19.76	19.74	19.66	19.80	19.89	20.02	20.13	20.22	20.25	20.51	20.65	20.78	0.4%
Distillate Fuel Oil	13.72	14.17	14.56	14.44	14.62	14.70	14.80	15.05	15.28	15.46	15.65	15.90	16.21	0.3%
Residual Fuel Oil	8.74	8.89	8.99	9.10	9.17	9.38	9.57	9.74	9.89	9.91	10.10	10.18	10.35	0.2%
Natural Gas 2/	6.88	6.95	6.93	6.86	6.99	7.08	7.20	7.30	7.42	7.43	7.68	7.81	7.93	-0.1%
Metallurgical Coal	3.34	3.35	3.37	3.38	3.40	3.42	3.43	3.46	3.48	3.50	3.52	3.54	3.56	0.3%
Other Industrial Coal	2.61	2.59	2.58	2.58	2.58	2.58	2.58	2.57	2.57	2.57	2.57	2.57	2.58	-0.4%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	15.49	15.50	15.48	15.36	15.35	15.32	15.32	15.33	15.33	15.34	15.44	15.51	15.58	0.4%
Transportation														
Liquefied Petroleum Gases 3/	26.17	26.24	26.21	26.14	26.27	26.35	26.48	26.58	26.67	26.70	26.96	27.08	27.21	0.8%
E85 4/	24.20	25.03	25.68	16.20	17.02	17.59	18.09	18.07	18.44	18.60	18.91	19.23	19.30	-1.1%
Motor Gasoline 5/	17.94	18.54	19.02	18.77	18.90	18.95	18.96	19.16	19.27	19.39	19.61	19.82	20.01	-0.1%
Jet Fuel 6/	12.81	12.99	13.15	13.32	13.49	13.68	13.88	14.08	14.30	14.54	14.78	15.02	15.28	0.2%
Distillate Fuel Oil 7/	17.01	17.50	17.88	17.72	17.86	17.91	17.95	18.18	18.39	18.55	18.70	18.93	19.26	0.0%
Residual Fuel Oil	9.01	9.16	9.26	9.37	9.37	9.54	9.73	9.90	10.05	10.07	10.26	10.34	10.51	2.2%
Natural Gas 8/	15.03	15.05	14.99	14.88	14.97	15.01	15.10	15.16	15.24	15.21	15.43	15.52	15.61	-0.5%
Electricity	20.35	20.38	20.39	20.26	20.26	19.77	19.80	19.87	19.93	20.00	20.16	20.28	20.37	-0.2%
Electric Power 9/														
Distillate Fuel Oil	10.32	10.48	10.59	10.70	10.86	11.06	11.29	11.50	11.76	11.93	12.15	12.40	12.56	-0.2%
Residual Fuel Oil	6.92	7.07	7.17	7.28	7.31	7.50	7.70	7.86	8.02	8.04	8.22	8.30	8.47	0.6%
Natural Gas	6.01	6.07	6.04	5.96	6.09	6.17	6.30	6.40	6.49	6.52	6.78	6.91	7.04	0.0%
Steam Coal	1.81	1.80	1.78	1.77	1.78	1.79	1.80	1.81	1.82	1.84	1.86	1.87	1.88	0.0%

Table 16. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	22.68	22.78	22.77	22.71	22.85	22.95	23.09	23.20	23.30	23.34	23.62	23.75	23.89	0.4%
E85 4/	24.20	25.03	25.68	16.20	17.02	17.59	18.09	18.07	18.44	18.60	18.91	19.23	19.30	-1.1%
Motor Gasoline 5/	17.94	18.54	19.02	18.77	18.90	18.95	18.96	19.16	19.27	19.39	19.61	19.82	20.01	-0.1%
Jet Fuel	12.81	12.99	13.15	13.32	13.49	13.68	13.88	14.08	14.30	14.54	14.78	15.02	15.28	0.2%
Distillate Fuel Oil	16.30	16.76	17.16	16.98	17.14	17.20	17.26	17.50	17.70	17.86	18.02	18.25	18.57	0.1%
Residual Fuel Oil	8.88	9.02	9.13	9.24	9.25	9.43	9.63	9.79	9.95	9.97	10.15	10.24	10.40	1.6%
Natural Gas	7.83	7.95	8.01	8.08	8.24	8.34	8.48	8.61	8.72	8.75	9.00	9.16	9.31	-0.1%
Metallurgical Coal	3.34	3.35	3.37	3.38	3.40	3.42	3.43	3.46	3.48	3.50	3.52	3.54	3.56	0.3%
Other Coal	1.86	1.84	1.83	1.81	1.82	1.83	1.84	1.84	1.85	1.87	1.89	1.90	1.90	-0.1%
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	20.82	20.88	20.91	20.81	20.83	20.81	20.83	20.87	20.90	20.94	21.08	21.19	21.29	0.3%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	14.95	15.11	15.23	15.24	15.40	15.54	15.74	15.89	16.07	16.23	16.52	16.70	16.91	1.1%
Commercial	9.67	9.85	10.01	10.10	10.28	10.43	10.62	10.80	10.99	11.16	11.42	11.65	11.86	1.3%
Industrial	15.51	15.58	15.62	15.46	15.55	15.58	15.70	15.85	16.00	16.09	16.30	16.43	16.57	0.3%
Transportation	36.33	37.44	38.32	36.74	36.90	36.37	36.09	36.12	36.69	37.09	37.64	38.34	38.83	0.1%
Total Non-Renewable Expenditures	76.45	77.98	79.17	77.55	78.13	77.93	78.14	78.66	79.75	80.57	81.88	83.12	84.17	0.5%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.84	1.00	1.56	1.93	2.29	2.22	2.26	2.29	2.24	2.40	35.9%
Total Expenditures	76.46	77.99	79.18	78.38	79.13	79.49	80.07	80.95	81.97	82.82	84.17	85.36	86.57	0.6%

Table 16. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-East South Central - 06

1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
-- = Not applicable.
Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.
Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results.
2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 17. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	19.78	24.65	26.40	28.66	25.82	25.38	25.02	24.82	24.63	24.43	24.29	24.24	24.32
Distillate Fuel Oil	15.43	16.31	18.23	20.27	16.64	15.99	15.29	14.59	13.90	13.62	13.05	12.62	12.63
Natural Gas	12.59	12.90	11.80	12.10	11.99	11.39	11.09	10.91	10.77	10.61	10.48	10.45	10.58
Electricity	30.42	33.80	30.93	31.66	33.12	32.51	31.91	32.04	31.99	31.78	31.90	32.14	32.30
Commercial													
Distillate Fuel Oil	13.22	13.97	16.04	18.17	15.48	14.87	14.56	13.76	13.15	13.01	12.51	12.07	12.09
Residual Fuel	9.30	7.31	6.86	9.82	12.43	11.64	11.08	8.71	8.52	8.47	8.12	7.99	7.93
Natural Gas	10.65	10.21	9.76	10.11	10.20	9.58	9.27	9.10	8.95	8.78	8.66	8.64	8.75
Electricity	25.53	27.26	24.88	25.57	26.61	25.81	24.94	24.95	24.64	24.33	24.43	24.70	24.85
Industrial 1/													
Liquefied Petroleum Gases	17.50	19.68	20.67	20.88	17.32	16.88	16.52	16.32	16.13	15.93	15.78	15.74	15.81
Distillate Fuel Oil	14.00	14.78	16.86	19.41	16.14	15.58	15.71	14.85	14.30	14.26	13.82	13.36	13.39
Residual Fuel Oil	9.38	7.88	7.40	10.61	12.43	11.64	11.08	8.71	8.52	8.47	8.12	7.99	7.93
Natural Gas 2/	7.87	6.89	6.34	6.70	6.90	6.47	6.13	5.94	5.75	5.56	5.42	5.38	5.45
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	1.48	1.73	1.81	1.85	1.83	1.82	1.82	1.84	1.85	1.86	1.88	1.86	1.87
Coal to Liquids	--	--	--	--	--	--	1.26	1.32	1.32	0.00	0.00	1.36	0.00
Electricity	20.01	21.09	19.71	20.47	21.26	20.46	19.57	19.27	18.90	18.54	18.55	18.69	18.80
Transportation													
Liquefied Petroleum Gases 3/	20.43	21.80	22.69	22.79	23.37	25.33	24.97	24.76	24.56	24.36	24.21	24.16	24.23
E85 4/	23.89	25.06	24.36	27.09	26.82	27.85	19.36	18.84	18.37	18.26	22.21	17.36	17.44
Motor Gasoline 5/	18.18	20.35	21.62	23.54	22.16	20.67	19.67	19.08	18.55	18.42	17.84	17.38	17.45
Jet Fuel 6/	12.69	14.46	14.63	15.35	16.08	15.52	15.04	14.25	13.60	13.25	12.67	12.25	12.26
Distillate Fuel Oil 7/	17.28	19.17	19.92	22.13	19.98	19.29	19.10	18.17	17.62	17.59	17.15	16.64	16.66
Residual Fuel Oil	8.58	5.68	8.18	9.65	12.31	11.48	10.96	10.36	9.82	9.58	9.01	8.57	8.56
Natural Gas 8/	15.28	14.96	14.28	14.65	14.87	14.42	14.05	13.81	13.59	13.36	13.18	13.10	13.13
Electricity	24.16	23.33	24.12	25.29	26.57	26.29	25.92	26.07	25.82	25.56	25.70	25.97	26.14
Electric Power 9/													
Distillate Fuel Oil	12.31	13.01	14.84	17.09	13.47	12.82	12.12	11.42	10.73	10.45	9.88	9.45	9.46
Residual Fuel Oil	7.95	7.85	8.31	10.06	11.00	10.19	9.65	8.22	7.85	7.69	7.23	6.93	6.90
Natural Gas	8.32	6.49	6.73	7.12	7.32	6.86	6.52	6.33	6.14	5.95	5.81	5.77	5.84
Steam Coal	1.19	1.35	1.41	1.43	1.47	1.51	1.53	1.53	1.52	1.53	1.53	1.51	1.52

Table 17. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	17.57	19.83	20.85	21.11	17.61	17.18	16.83	16.63	16.45	16.25	16.11	16.08	16.16
E85 4/	23.89	25.06	24.36	27.09	26.82	27.85	19.36	18.84	18.37	18.26	22.21	17.36	17.44
Motor Gasoline 5/	18.08	20.17	21.47	23.38	22.16	20.67	19.67	19.08	18.55	18.42	17.84	17.38	17.45
Jet Fuel	12.69	14.46	14.63	15.35	16.08	15.52	15.04	14.25	13.60	13.25	12.67	12.25	12.26
Distillate Fuel Oil	16.66	18.24	19.31	21.58	19.04	18.39	18.23	17.43	17.00	16.97	16.51	16.03	16.04
Residual Fuel Oil	8.54	5.98	8.10	9.76	12.30	11.48	10.96	10.16	9.67	9.44	8.90	8.49	8.47
Natural Gas	8.49	7.23	7.03	7.38	7.55	7.09	6.76	6.58	6.40	6.22	6.09	6.06	6.14
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.20	1.37	1.42	1.45	1.48	1.53	1.54	1.54	1.53	1.54	1.54	1.52	1.53
Coal to Liquids	--	--	--	--	--	--	1.26	1.32	1.32	0.00	0.00	1.36	0.00
Electricity	25.69	27.89	25.56	26.39	27.52	26.77	25.98	25.95	25.67	25.39	25.48	25.72	25.89
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	25.37	27.44	25.91	26.78	28.22	27.93	27.75	28.18	27.83	27.83	28.12	28.64	29.04
Commercial	17.39	18.22	17.47	18.35	18.95	18.57	18.35	18.65	18.76	18.91	19.31	19.84	20.33
Industrial	68.48	70.40	70.79	73.40	74.64	72.11	70.27	68.72	66.79	65.11	63.61	62.61	62.46
Transportation	65.32	73.61	78.61	86.13	82.72	79.58	78.06	76.30	74.86	74.97	73.30	71.99	72.78
Total Non-Renewable Expenditures	176.56	189.66	192.80	204.66	204.52	198.20	194.44	191.84	188.24	186.82	184.34	183.08	184.61
Transportation Renewable Expenditures	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.02	0.02	0.02	0.03	0.02	0.02
Total Expenditures	176.57	189.67	192.80	204.66	204.53	198.20	194.45	191.86	188.26	186.84	184.37	183.10	184.63

Table 17. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	24.40	24.49	24.47	24.41	24.54	24.64	24.78	24.89	24.98	25.02	25.29	25.42	25.56	0.2%
Distillate Fuel Oil	12.77	12.92	13.02	13.13	13.24	13.43	13.67	13.87	14.12	14.29	14.51	14.76	15.00	-0.3%
Natural Gas	10.70	10.82	10.82	10.79	10.96	11.10	11.28	11.43	11.59	11.64	11.94	12.13	12.30	-0.2%
Electricity	31.56	32.19	31.84	31.97	32.18	32.05	31.99	32.07	32.23	32.16	32.63	32.47	32.24	-0.2%
Commercial														
Distillate Fuel Oil	12.24	12.56	12.83	12.80	12.94	13.07	13.23	13.46	13.69	13.87	14.07	14.32	14.60	0.2%
Residual Fuel	8.12	8.55	8.92	9.07	9.16	9.41	9.60	9.77	9.96	9.98	10.16	10.24	10.41	1.5%
Natural Gas	8.87	8.98	8.99	8.96	9.12	9.25	9.42	9.56	9.71	9.75	10.04	10.21	10.37	0.1%
Electricity	24.14	24.77	24.42	24.52	24.76	24.64	24.62	24.70	24.87	24.83	25.30	25.13	25.01	-0.4%
Industrial 1/														
Liquefied Petroleum Gases	15.90	15.99	15.97	15.90	16.04	16.14	16.28	16.39	16.48	16.52	16.78	16.92	17.06	-0.6%
Distillate Fuel Oil	13.55	14.00	14.38	14.25	14.42	14.50	14.60	14.84	15.07	15.25	15.44	15.68	16.01	0.3%
Residual Fuel Oil	8.12	8.55	8.92	9.07	9.16	9.41	9.60	9.77	9.96	9.98	10.16	10.24	10.41	1.2%
Natural Gas 2/	5.54	5.62	5.60	5.54	5.67	5.76	5.90	6.00	6.12	6.13	6.39	6.52	6.65	-0.1%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	1.89	1.90	1.93	1.92	1.93	1.95	1.96	1.97	1.98	1.99	2.01	2.01	2.03	0.7%
Coal to Liquids	0.00	0.00	0.00	1.48	1.50	0.00	0.00	0.00	1.56	1.57	1.58	1.59	1.60	--
Electricity	18.41	18.81	18.59	18.60	18.82	18.80	18.87	18.98	19.13	19.13	19.54	19.54	19.44	-0.3%
Transportation														
Liquefied Petroleum Gases 3/	24.32	24.40	24.37	24.30	24.44	24.53	24.66	24.77	24.85	24.89	25.15	25.28	25.42	0.6%
E85 4/	16.20	18.75	17.04	19.45	16.69	17.26	17.80	17.70	18.09	18.24	18.53	18.85	18.93	-1.2%
Motor Gasoline 5/	17.66	18.26	18.74	18.50	18.64	18.69	18.69	18.90	19.01	19.13	19.35	19.55	19.73	-0.1%
Jet Fuel 6/	12.40	12.56	12.69	12.84	13.00	13.17	13.35	13.54	13.75	13.97	14.20	14.43	14.67	0.1%
Distillate Fuel Oil 7/	16.78	17.26	17.64	17.47	17.61	17.66	17.69	17.92	18.13	18.29	18.44	18.66	18.99	0.0%
Residual Fuel Oil	8.67	8.81	8.91	9.02	9.08	9.25	9.45	9.61	9.80	9.82	10.00	10.09	10.30	2.5%
Natural Gas 8/	13.17	13.20	13.14	13.04	13.13	13.18	13.28	13.34	13.42	13.39	13.61	13.71	13.80	-0.3%
Electricity	25.62	26.24	25.99	26.09	26.34	25.38	25.48	25.67	25.95	26.04	26.59	26.55	26.44	0.5%
Electric Power 9/														
Distillate Fuel Oil	9.60	9.75	9.85	9.96	10.07	10.26	10.50	10.70	10.95	11.13	11.34	11.59	11.83	-0.4%
Residual Fuel Oil	7.05	7.32	7.55	7.68	7.76	7.96	8.16	8.32	8.51	8.53	8.71	8.79	8.98	0.6%
Natural Gas	5.91	5.99	5.97	5.91	6.04	6.13	6.25	6.36	6.45	6.49	6.74	6.87	7.00	0.3%
Steam Coal	1.54	1.55	1.57	1.56	1.57	1.59	1.60	1.62	1.63	1.65	1.66	1.67	1.69	0.9%

Table 17. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	16.25	16.34	16.33	16.27	16.41	16.51	16.65	16.76	16.86	16.90	17.17	17.31	17.45	-0.5%
E85 4/	16.20	18.75	17.04	19.45	16.69	17.26	17.80	17.70	18.09	18.24	18.53	18.85	18.93	-1.2%
Motor Gasoline 5/	17.66	18.26	18.74	18.50	18.64	18.69	18.69	18.90	19.01	19.13	19.35	19.55	19.73	-0.1%
Jet Fuel	12.40	12.56	12.69	12.84	13.00	13.17	13.35	13.54	13.75	13.97	14.20	14.43	14.67	0.1%
Distillate Fuel Oil	16.18	16.65	17.05	16.87	17.03	17.08	17.15	17.38	17.58	17.74	17.91	18.14	18.46	0.1%
Residual Fuel Oil	8.59	8.76	8.89	9.00	9.06	9.24	9.43	9.60	9.79	9.81	9.99	10.07	10.28	2.3%
Natural Gas	6.24	6.33	6.32	6.27	6.41	6.52	6.66	6.77	6.89	6.92	7.19	7.33	7.47	0.1%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.55	1.56	1.58	1.57	1.58	1.60	1.61	1.63	1.64	1.65	1.67	1.68	1.70	0.9%
Coal to Liquids	0.00	0.00	0.00	1.48	1.50	0.00	0.00	0.00	1.56	1.57	1.58	1.59	1.60	--
Electricity	25.28	25.87	25.57	25.68	25.91	25.84	25.85	25.95	26.13	26.11	26.58	26.47	26.33	-0.2%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	28.89	29.69	29.70	29.98	30.52	30.80	31.21	31.62	32.17	32.51	33.43	33.63	33.87	0.9%
Commercial	20.27	21.12	21.26	21.70	22.31	22.65	23.08	23.60	24.19	24.58	25.48	25.82	26.22	1.5%
Industrial	62.11	62.26	61.98	61.28	61.84	62.13	62.67	63.28	63.93	64.18	65.46	65.99	66.32	-0.2%
Transportation	73.91	76.77	77.16	78.88	75.26	75.81	76.88	78.00	79.68	81.10	82.87	84.91	86.70	0.7%
Total Non-Renewable Expenditures	185.18	189.83	190.10	191.85	189.93	191.38	193.84	196.50	199.97	202.37	207.24	210.35	213.11	0.5%
Transportation Renewable Expenditures	0.23	0.02	1.51	0.03	4.02	4.53	4.59	5.04	5.00	5.16	5.28	5.25	5.58	36.7%
Total Expenditures	185.41	189.86	191.61	191.87	193.95	195.92	198.44	201.53	204.97	207.53	212.52	215.60	218.69	0.6%

Table 17. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-West South Central - 07

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 18. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	17.88	21.29	22.82	24.76	24.59	24.18	23.81	23.65	23.43	23.33	23.27	23.23	23.28
Distillate Fuel Oil	16.94	17.90	19.52	22.82	16.50	15.69	15.23	14.45	13.76	13.47	12.86	12.44	12.47
Natural Gas	10.92	11.69	11.39	11.43	11.43	10.94	10.65	10.55	10.39	10.34	10.32	10.32	10.45
Electricity	26.27	26.48	28.24	29.24	29.85	29.45	28.80	28.31	28.44	28.55	28.68	28.89	29.09
Commercial													
Distillate Fuel Oil	14.32	15.13	18.15	20.92	15.57	14.86	14.64	13.82	13.20	13.05	12.53	12.09	12.13
Residual Fuel	9.06	7.69	7.21	10.33	12.06	11.28	10.72	8.35	8.17	8.12	7.77	7.64	7.58
Natural Gas	9.51	10.33	9.82	10.05	9.93	9.37	9.06	8.95	8.76	8.70	8.67	8.66	8.75
Electricity	22.33	22.31	22.97	23.52	23.59	23.16	22.41	21.85	21.42	21.22	21.21	21.33	21.38
Industrial 1/													
Liquefied Petroleum Gases	17.39	16.97	17.82	17.99	22.55	22.14	21.77	21.61	21.39	21.29	21.23	21.19	21.25
Distillate Fuel Oil	14.46	15.29	18.57	21.15	16.14	15.50	15.60	14.74	14.17	14.12	13.67	13.22	13.27
Residual Fuel Oil	10.14	8.09	7.60	10.88	12.06	11.28	10.72	8.35	8.17	8.12	7.77	7.64	7.58
Natural Gas 2/	7.73	8.39	7.25	7.53	7.54	7.14	6.78	6.63	6.41	6.32	6.26	6.22	6.28
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	1.68	1.86	1.93	1.99	2.02	1.99	1.95	1.91	1.90	1.89	1.88	1.86	1.86
Coal to Liquids	--	--	--	--	--	--	0.94	0.93	0.94	0.93	0.93	0.92	0.93
Electricity	16.54	16.40	17.16	17.94	17.92	17.60	17.04	16.63	16.32	16.19	16.17	16.21	16.25
Transportation													
Liquefied Petroleum Gases 3/	20.40	21.77	22.66	22.75	23.52	25.51	25.14	24.98	24.75	24.64	24.58	24.53	24.59
E85 4/	23.89	24.52	24.86	24.01	23.77	29.03	27.63	26.88	26.14	25.95	25.18	24.55	24.67
Motor Gasoline 5/	19.97	21.69	23.06	25.10	22.92	21.51	20.47	19.91	19.36	19.22	18.65	18.19	18.28
Jet Fuel 6/	13.76	15.21	15.37	16.13	16.88	15.94	15.97	15.17	14.48	14.11	13.51	13.07	13.06
Distillate Fuel Oil 7/	18.90	21.11	21.94	24.38	20.92	20.24	20.06	19.16	18.58	18.54	18.10	17.60	17.63
Residual Fuel Oil	6.24	7.87	8.56	8.78	8.20	7.51	7.08	6.92	6.87	6.65	6.65	6.62	6.67
Natural Gas 8/	11.72	11.88	11.85	12.20	12.27	11.87	11.48	11.29	11.03	10.91	10.82	10.75	10.75
Electricity	21.39	20.78	20.90	21.99	21.98	21.80	21.29	20.89	20.55	20.45	20.51	20.65	20.72
Electric Power 9/													
Distillate Fuel Oil	12.72	13.44	16.34	18.60	14.92	14.11	13.65	12.88	12.18	11.89	11.29	10.86	10.90
Residual Fuel Oil	8.47	9.65	10.22	12.39	10.79	9.99	9.45	8.02	7.65	7.50	7.04	6.74	6.71
Natural Gas	7.71	6.27	6.94	7.26	7.29	6.85	6.49	6.36	6.11	6.02	5.96	5.90	5.93
Steam Coal	1.19	1.31	1.34	1.37	1.40	1.42	1.43	1.42	1.42	1.42	1.41	1.41	1.41

Table 18. Energy Prices by Sector and Source
 (2006 dollars per million Btu, unless otherwise noted)-Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	17.60	19.84	20.80	21.97	23.80	23.43	23.07	22.91	22.69	22.59	22.53	22.50	22.56
E85 4/	23.89	24.52	24.86	24.01	23.77	29.03	27.63	26.88	26.14	25.95	25.18	24.55	24.67
Motor Gasoline 5/	19.85	21.51	22.88	24.93	22.92	21.51	20.47	19.91	19.36	19.22	18.65	18.19	18.28
Jet Fuel	13.76	15.21	15.37	16.13	16.88	15.94	15.97	15.17	14.48	14.11	13.51	13.07	13.06
Distillate Fuel Oil	17.76	19.62	21.07	23.55	19.61	18.94	18.79	18.00	17.55	17.52	17.08	16.61	16.64
Residual Fuel Oil	9.93	8.33	7.89	11.04	11.88	11.08	10.52	8.30	8.08	8.01	7.72	7.57	7.52
Natural Gas	8.80	8.64	8.43	8.63	8.67	8.20	7.91	7.78	7.60	7.53	7.50	7.50	7.62
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.22	1.33	1.37	1.40	1.43	1.45	1.45	1.44	1.44	1.44	1.43	1.43	1.43
Coal to Liquids	--	--	--	--	--	--	0.94	0.93	0.94	0.93	0.93	0.92	0.93
Electricity	22.00	22.07	23.18	23.94	24.37	24.00	23.34	22.88	22.65	22.59	22.64	22.79	22.90
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	12.17	13.00	14.19	15.03	15.21	15.06	14.97	15.03	14.90	15.07	15.29	15.61	15.90
Commercial	9.16	9.60	10.06	10.32	10.44	10.33	10.23	10.23	10.26	10.41	10.62	10.89	11.16
Industrial	9.96	10.22	10.87	12.12	11.62	11.37	11.21	10.82	10.42	10.27	10.12	10.02	10.04
Transportation	35.40	39.73	42.17	46.75	43.42	42.20	41.87	41.36	40.89	41.21	40.61	40.15	40.79
Total Non-Renewable Expenditures	66.68	72.55	77.30	84.21	80.69	78.96	78.29	77.44	76.47	76.96	76.65	76.68	77.89
Transportation Renewable Expenditures	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total Expenditures	66.68	72.55	77.30	84.23	80.70	78.96	78.29	77.44	76.47	76.97	76.65	76.68	77.89

Table 18. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	23.33	23.39	23.07	22.79	22.95	23.15	23.36	23.55	23.77	23.89	24.12	24.37	24.57	0.6%
Distillate Fuel Oil	12.59	12.73	12.95	13.01	13.18	13.45	13.81	13.98	14.32	14.45	14.61	14.88	15.03	-0.7%
Natural Gas	10.54	10.65	10.39	10.17	10.36	10.60	10.85	11.09	11.38	11.53	11.80	12.11	12.36	0.2%
Electricity	29.39	29.72	29.63	29.47	29.93	30.28	30.49	30.94	31.11	31.18	31.32	31.54	31.44	0.7%
Commercial														
Distillate Fuel Oil	12.26	12.58	12.90	12.84	13.02	13.19	13.41	13.62	13.90	14.06	14.23	14.49	14.73	-0.1%
Residual Fuel	7.77	8.19	8.57	8.71	8.81	9.06	9.25	9.41	9.60	9.62	9.80	9.88	10.04	1.1%
Natural Gas	8.82	8.92	8.64	8.39	8.57	8.79	9.03	9.24	9.51	9.65	9.90	10.18	10.41	0.0%
Electricity	21.54	21.73	21.46	21.14	21.42	21.61	21.73	22.06	22.14	22.18	22.28	22.42	22.32	0.0%
Industrial 1/														
Liquefied Petroleum Gases	21.29	21.35	21.03	20.75	20.91	21.11	21.32	21.51	21.73	21.86	22.08	22.33	22.53	1.2%
Distillate Fuel Oil	13.41	13.85	14.25	14.10	14.28	14.38	14.51	14.74	14.98	15.16	15.33	15.58	15.89	0.2%
Residual Fuel Oil	7.77	8.19	8.57	8.71	8.81	9.06	9.25	9.41	9.60	9.62	9.80	9.88	10.04	0.9%
Natural Gas 2/	6.32	6.37	6.07	5.80	5.96	6.14	6.35	6.53	6.76	6.86	7.08	7.32	7.51	-0.5%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	1.86	1.87	1.88	1.88	1.89	1.90	1.90	1.91	1.92	1.93	1.94	1.95	1.95	0.2%
Coal to Liquids	0.93	0.94	0.94	0.95	0.95	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.98	--
Electricity	16.38	16.52	16.31	16.11	16.30	16.46	16.61	16.84	16.91	16.92	17.02	17.17	17.08	0.2%
Transportation														
Liquefied Petroleum Gases 3/	24.62	24.68	24.35	24.07	24.23	24.42	24.63	24.81	25.02	25.15	25.37	25.62	25.81	0.7%
E85 4/	24.93	25.74	26.41	17.16	17.97	21.02	20.85	20.78	20.88	20.81	20.86	21.00	20.98	-0.6%
Motor Gasoline 5/	18.47	19.07	19.56	19.07	19.18	19.36	19.18	19.09	19.17	19.08	19.12	19.25	19.23	-0.5%
Jet Fuel 6/	13.19	13.33	13.45	13.58	13.73	13.89	14.08	14.27	14.47	14.69	14.91	15.13	15.37	0.0%
Distillate Fuel Oil 7/	17.73	18.21	18.59	18.41	18.54	18.59	18.64	18.87	19.08	19.24	19.39	19.61	19.94	-0.2%
Residual Fuel Oil	6.69	6.82	6.93	6.99	7.03	7.06	7.26	7.46	7.45	7.75	7.99	8.09	8.44	0.3%
Natural Gas 8/	10.75	10.79	10.43	10.10	10.22	10.37	10.54	10.69	10.88	10.96	11.15	11.36	11.53	-0.1%
Electricity	20.89	21.08	20.86	20.61	20.90	20.28	20.47	20.81	20.98	21.07	21.25	21.45	21.34	0.1%
Electric Power 9/														
Distillate Fuel Oil	11.01	11.16	11.37	11.43	11.61	11.88	12.24	12.40	12.74	12.88	13.04	13.30	13.45	0.0%
Residual Fuel Oil	6.86	7.13	7.36	7.48	7.56	7.77	7.96	8.12	8.31	8.33	8.51	8.59	8.78	-0.4%
Natural Gas	5.95	6.00	5.66	5.34	5.47	5.64	5.83	6.00	6.21	6.34	6.54	6.79	7.00	0.5%
Steam Coal	1.42	1.43	1.44	1.45	1.46	1.47	1.50	1.52	1.54	1.56	1.57	1.59	1.60	0.8%

Table 18. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	22.60	22.55	22.35	21.93	22.10	22.44	22.65	22.85	22.99	23.19	23.42	23.67	23.88	0.8%
E85 4/	24.93	25.74	26.41	17.16	17.97	21.02	20.85	20.78	20.88	20.81	20.86	21.00	20.98	-0.6%
Motor Gasoline 5/	18.47	19.07	19.56	19.07	19.18	19.36	19.18	19.09	19.17	19.08	19.12	19.25	19.23	-0.5%
Jet Fuel	13.19	13.33	13.45	13.58	13.73	13.89	14.08	14.27	14.47	14.69	14.91	15.13	15.37	0.0%
Distillate Fuel Oil	16.77	17.23	17.64	17.45	17.60	17.67	17.76	17.98	18.19	18.36	18.52	18.75	19.06	-0.1%
Residual Fuel Oil	7.70	7.98	8.48	8.61	8.70	8.95	9.12	9.29	9.47	9.49	9.67	9.76	9.92	0.7%
Natural Gas	7.73	7.86	7.57	7.29	7.52	7.83	8.12	8.43	8.77	8.94	9.28	9.56	9.81	0.5%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.44	1.45	1.46	1.46	1.47	1.49	1.52	1.54	1.55	1.57	1.58	1.60	1.61	0.8%
Coal to Liquids	0.93	0.94	0.94	0.95	0.95	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.98	--
Electricity	23.13	23.38	23.23	23.01	23.36	23.62	23.81	24.18	24.32	24.38	24.52	24.71	24.63	0.5%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	16.28	16.66	16.72	16.73	17.22	17.69	18.14	18.63	19.07	19.43	19.90	20.34	20.65	1.9%
Commercial	11.46	11.78	11.82	11.86	12.25	12.60	12.93	13.35	13.68	13.96	14.32	14.72	14.98	1.9%
Industrial	10.04	10.26	10.18	10.10	10.24	10.33	10.49	10.71	10.95	11.10	11.30	11.53	11.69	0.6%
Transportation	41.65	43.23	44.58	43.35	43.76	45.80	46.15	46.80	47.70	48.38	49.29	50.39	51.42	1.1%
Total Non-Renewable Expenditures	79.43	81.92	83.31	82.05	83.47	86.42	87.71	89.49	91.40	92.87	94.81	96.97	98.73	1.3%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.75	1.08	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	9.8%
Total Expenditures	79.44	81.93	83.31	82.79	84.55	86.43	87.73	89.51	91.42	92.89	94.83	96.99	98.75	1.3%

Table 18. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Mountain - 08

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 19. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	21.83	25.70	27.55	29.90	26.83	26.41	26.04	25.85	25.56	25.42	25.34	25.29	25.32
Distillate Fuel Oil	17.31	18.28	21.48	24.40	15.86	15.63	14.73	14.55	14.42	14.17	13.76	13.55	13.60
Natural Gas	11.79	11.69	12.18	12.35	12.23	11.74	11.41	11.24	11.00	10.89	10.83	10.79	10.86
Electricity	31.25	34.20	32.77	33.15	33.33	32.66	31.78	31.13	31.15	31.29	31.30	31.28	31.35
Commercial													
Distillate Fuel Oil	15.37	16.23	17.40	20.19	15.09	14.84	13.96	13.84	13.91	13.81	13.37	13.19	13.22
Residual Fuel	10.83	5.08	4.78	6.83	9.84	9.66	9.12	9.00	8.89	8.77	8.36	8.11	8.17
Natural Gas	10.44	10.17	10.78	11.10	11.10	10.61	10.32	10.20	9.98	9.90	9.87	9.88	9.97
Electricity	31.05	33.03	30.87	31.41	31.44	30.64	29.51	28.82	28.27	27.93	27.80	27.73	27.71
Industrial 1/													
Liquefied Petroleum Gases	18.03	22.52	23.65	23.87	22.71	22.29	21.92	21.73	21.43	21.29	21.22	21.16	21.20
Distillate Fuel Oil	16.05	16.96	17.87	20.81	15.86	15.63	14.84	14.76	14.97	14.98	14.53	14.37	14.38
Residual Fuel Oil	10.65	7.04	6.61	9.47	9.84	9.66	9.12	9.00	8.89	8.77	8.36	8.11	8.17
Natural Gas 2/	8.11	7.37	7.07	7.34	7.30	6.90	6.55	6.36	6.08	5.95	5.88	5.82	5.85
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	2.25	2.56	2.68	2.79	2.78	2.74	2.75	2.73	2.75	2.75	2.73	2.71	2.72
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	22.38	23.11	21.58	22.22	22.20	21.69	20.97	20.45	20.11	19.93	19.86	19.81	19.82
Transportation													
Liquefied Petroleum Gases 3/	19.76	21.08	21.94	22.05	22.19	24.18	23.81	23.61	23.31	23.17	23.09	23.03	23.06
E85 4/	23.89	26.78	27.20	24.68	24.43	29.79	29.92	29.05	28.24	18.85	18.55	18.26	21.70
Motor Gasoline 5/	21.13	22.25	23.63	25.72	22.84	22.07	22.17	21.52	20.92	20.87	20.23	19.64	19.86
Jet Fuel 6/	14.00	15.06	15.24	15.99	15.83	15.55	15.63	14.88	14.22	13.89	13.31	12.96	13.17
Distillate Fuel Oil 7/	19.76	20.49	21.29	23.66	20.22	19.83	18.87	18.76	19.02	19.04	18.57	18.40	18.35
Residual Fuel Oil	9.11	9.87	9.82	11.88	11.11	10.93	10.39	10.28	10.16	10.04	9.64	9.38	9.44
Natural Gas 8/	12.02	11.27	11.55	11.87	11.96	11.58	11.19	10.98	10.66	10.51	10.41	10.32	10.33
Electricity	29.13	27.63	28.01	28.84	28.80	28.08	27.12	26.45	25.96	25.68	25.59	25.54	25.53
Electric Power 9/													
Distillate Fuel Oil	14.12	14.92	15.73	18.31	13.09	12.86	11.96	11.78	11.65	11.40	10.99	10.78	10.82
Residual Fuel Oil	8.60	9.65	10.22	12.39	9.19	9.01	8.47	8.35	8.23	8.11	7.71	7.45	7.52
Natural Gas	7.42	6.05	6.99	7.19	7.19	6.76	6.42	6.25	5.98	5.86	5.83	5.80	5.84
Steam Coal	1.45	1.59	1.66	1.71	1.77	1.79	1.77	1.67	1.67	1.66	1.64	1.63	1.63

Table 19. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	19.78	24.23	25.43	26.70	23.97	23.74	23.36	23.22	22.96	22.85	22.81	22.85	22.90
E85 4/	23.89	26.78	27.20	24.68	24.43	29.79	29.92	29.05	28.24	18.85	18.55	18.26	21.70
Motor Gasoline 5/	21.06	22.15	23.54	25.63	22.84	22.07	22.17	21.52	20.92	20.87	20.23	19.64	19.86
Jet Fuel	14.00	15.06	15.24	15.99	15.83	15.55	15.63	14.88	14.22	13.89	13.31	12.96	13.17
Distillate Fuel Oil	18.98	19.76	20.66	23.14	19.23	18.91	17.97	17.91	18.22	18.24	17.77	17.60	17.59
Residual Fuel Oil	8.98	9.77	9.87	11.96	10.65	10.46	9.91	9.79	9.68	9.55	9.14	8.89	8.95
Natural Gas	8.99	8.22	8.61	8.98	8.88	8.46	8.13	7.97	7.73	7.61	7.55	7.48	7.53
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.63	1.85	1.90	1.97	2.00	2.00	1.99	1.90	1.90	1.89	1.87	1.85	1.85
Coal to Liquids	--	--	--	--	--	--	--	--	--	--	--	--	--
Electricity	29.16	31.33	29.60	30.19	30.15	29.46	28.51	27.88	27.55	27.40	27.33	27.29	27.31
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	23.75	26.20	26.02	27.23	27.22	26.72	26.27	26.11	25.45	25.47	25.53	25.72	25.93
Commercial	21.83	23.63	23.06	23.67	23.70	23.36	22.96	22.89	22.89	23.08	23.40	23.78	24.21
Industrial	18.68	17.94	16.95	18.06	20.30	19.88	19.72	19.26	18.76	18.52	18.22	17.93	17.95
Transportation	83.22	89.19	94.41	102.71	92.94	91.31	91.57	90.15	88.90	88.41	85.53	82.40	86.80
Total Non-Renewable Expenditures	147.49	156.95	160.45	171.68	164.16	161.27	160.52	158.41	155.99	155.48	152.68	149.83	154.89
Transportation Renewable Expenditures	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.71	1.46	3.22	0.03
Total Expenditures	147.49	156.96	160.46	171.69	164.17	161.28	160.53	158.42	156.00	156.18	154.14	153.05	154.92

Table 19. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	25.35	25.41	25.29	24.99	25.03	25.17	25.34	25.51	25.72	25.83	26.04	26.27	26.48	0.1%
Distillate Fuel Oil	13.92	14.20	14.48	14.61	14.75	15.08	15.36	15.53	15.88	16.23	16.43	16.72	16.84	-0.3%
Natural Gas	10.91	11.01	10.92	10.67	10.71	10.88	11.07	11.27	11.52	11.63	11.85	12.11	12.34	0.2%
Electricity	31.41	31.47	31.39	31.30	31.37	31.30	31.41	31.60	31.74	31.78	31.93	32.13	32.24	-0.2%
Commercial														
Distillate Fuel Oil	13.61	14.10	14.52	14.54	14.72	14.89	15.08	15.27	15.60	15.90	16.10	16.36	16.48	0.1%
Residual Fuel	8.41	8.62	8.91	9.07	9.20	9.34	9.46	9.62	9.82	10.04	10.26	10.36	10.50	3.1%
Natural Gas	10.06	10.18	10.12	9.91	10.00	10.19	10.42	10.63	10.91	11.04	11.30	11.57	11.82	0.6%
Electricity	27.68	27.66	27.45	27.17	27.11	26.99	27.11	27.26	27.38	27.44	27.67	27.87	27.94	-0.7%
Industrial 1/														
Liquefied Petroleum Gases	21.23	21.29	21.17	20.87	20.90	21.05	21.22	21.39	21.59	21.70	21.92	22.15	22.35	0.0%
Distillate Fuel Oil	14.83	15.45	15.99	15.92	16.13	16.19	16.30	16.51	16.84	17.10	17.28	17.53	17.64	0.2%
Residual Fuel Oil	8.41	8.62	8.91	9.07	9.20	9.34	9.46	9.62	9.82	10.04	10.26	10.36	10.50	1.7%
Natural Gas 2/	5.87	5.94	5.82	5.54	5.57	5.70	5.87	6.04	6.25	6.34	6.54	6.77	6.96	-0.2%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Industrial Coal	2.73	2.74	2.76	2.78	2.80	2.83	2.85	2.87	2.89	2.90	2.92	2.94	2.94	0.6%
Coal to Liquids	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.51	1.52	1.53	1.54	1.55	--
Electricity	19.83	19.85	19.71	19.52	19.51	19.34	19.45	19.58	19.68	19.73	19.88	20.04	20.13	-0.6%
Transportation														
Liquefied Petroleum Gases 3/	23.08	23.13	23.01	22.70	22.73	22.87	23.04	23.21	23.41	23.52	23.72	23.95	24.15	0.6%
E85 4/	22.00	19.44	19.20	17.70	18.78	19.37	19.75	19.56	19.95	20.11	20.36	20.70	20.69	-1.1%
Motor Gasoline 5/	20.08	20.45	20.91	20.49	20.59	20.69	20.44	20.36	20.47	20.56	20.65	20.81	20.75	-0.3%
Jet Fuel 6/	13.33	13.49	13.64	13.79	13.95	14.13	14.32	14.52	14.91	15.22	15.48	15.79	15.93	0.2%
Distillate Fuel Oil 7/	18.79	19.46	19.98	19.88	20.06	20.05	20.10	20.29	20.60	20.82	20.97	21.18	21.28	0.2%
Residual Fuel Oil	9.68	9.90	10.18	10.35	10.48	10.85	11.12	11.24	11.59	12.00	12.19	12.46	12.55	1.0%
Natural Gas 8/	10.32	10.36	10.25	9.92	9.92	10.02	10.15	10.28	10.46	10.52	10.69	10.88	11.05	-0.1%
Electricity	25.52	25.52	25.34	25.09	25.06	24.47	24.61	24.79	24.95	25.04	25.25	25.46	25.57	-0.3%
Electric Power 9/														
Distillate Fuel Oil	11.15	11.43	11.71	11.84	11.98	12.31	12.59	12.76	13.11	13.46	13.66	13.95	14.07	-0.2%
Residual Fuel Oil	7.75	7.97	8.26	8.42	8.55	8.81	9.01	9.15	9.43	9.75	9.96	10.15	10.26	0.3%
Natural Gas	5.87	5.93	5.79	5.54	5.58	5.70	5.82	5.96	6.13	6.20	6.38	6.55	6.71	0.4%
Steam Coal	1.55	1.55	1.55	1.55	1.55	1.58	1.63	1.65	1.66	1.67	1.68	1.68	1.70	0.3%

Table 19. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	22.97	23.10	23.04	23.03	23.10	23.25	23.72	23.91	24.09	24.22	24.38	24.55	24.75	0.1%
E85 4/	22.00	19.44	19.20	17.70	18.78	19.37	19.75	19.56	19.95	20.11	20.36	20.70	20.69	-1.1%
Motor Gasoline 5/	20.08	20.45	20.91	20.49	20.59	20.69	20.44	20.36	20.47	20.56	20.65	20.80	20.75	-0.3%
Jet Fuel	13.33	13.49	13.64	13.79	13.95	14.13	14.32	14.52	14.91	15.22	15.48	15.79	15.93	0.2%
Distillate Fuel Oil	18.04	18.69	19.25	19.14	19.34	19.37	19.45	19.64	19.96	20.19	20.36	20.60	20.69	0.2%
Residual Fuel Oil	9.18	9.40	9.68	9.84	9.97	10.31	10.55	10.68	11.00	11.38	11.58	11.82	11.91	0.8%
Natural Gas	7.57	7.65	7.59	7.35	7.41	7.56	7.74	7.93	8.15	8.25	8.48	8.72	8.93	0.3%
Metallurgical Coal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Coal	1.79	1.79	1.80	1.80	1.80	1.82	1.84	1.85	1.87	1.87	1.88	1.89	1.90	0.1%
Coal to Liquids	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.51	1.52	1.53	1.54	1.55	--
Electricity	27.32	27.35	27.20	27.00	27.00	26.90	27.03	27.20	27.33	27.39	27.60	27.80	27.89	-0.5%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	26.19	26.48	26.51	26.35	26.63	26.94	27.45	27.85	28.36	28.72	29.28	29.75	30.21	0.6%
Commercial	24.63	25.08	25.31	25.44	25.86	26.27	26.87	27.50	28.14	28.67	29.41	30.12	30.71	1.1%
Industrial	17.92	18.09	18.12	17.67	17.78	17.93	18.07	18.43	18.92	19.22	19.64	20.13	20.47	0.6%
Transportation	88.54	85.91	86.91	86.02	86.98	88.09	89.28	89.89	92.52	94.50	96.76	99.58	101.15	0.5%
Total Non-Renewable Expenditures	157.28	155.55	156.86	155.49	157.26	159.24	161.66	163.67	167.95	171.11	175.09	179.59	182.54	0.6%
Transportation Renewable Expenditures	0.03	5.23	6.42	6.45	7.11	7.41	6.81	7.26	6.75	6.71	6.25	5.61	5.34	33.3%
Total Expenditures	157.31	160.77	163.29	161.93	164.37	166.64	168.47	170.93	174.70	177.82	181.34	185.19	187.88	0.8%

Table 19. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted)-Pacific - 09

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
2/ Excludes use for lease and plant fuel.
3/ Includes Federal and State taxes while excluding county and local taxes.
4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 20. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted) United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
Liquefied Petroleum Gases	18.83	23.08	24.69	26.80	25.58	25.21	24.90	24.70	24.46	24.27	24.15	24.11	24.18
Distillate Fuel Oil	16.98	17.94	19.32	21.92	17.86	17.21	16.50	15.80	15.12	14.84	14.27	13.84	13.86
Natural Gas	12.85	13.40	12.52	12.66	12.65	12.15	11.86	11.67	11.46	11.30	11.20	11.17	11.28
Electricity	28.52	30.52	30.36	30.68	31.74	31.37	30.77	30.49	30.31	30.12	30.04	30.07	30.17
Commercial													
Distillate Fuel Oil	13.82	14.59	16.63	19.03	15.86	15.24	14.82	14.10	13.52	13.38	12.88	12.44	12.46
Residual Fuel	11.21	8.60	8.11	11.64	10.52	10.06	9.64	9.15	8.76	8.37	7.95	7.54	7.56
Natural Gas	11.53	11.50	10.75	11.08	11.15	10.59	10.31	10.14	9.93	9.77	9.68	9.66	9.76
Electricity	26.12	27.75	27.32	27.79	28.46	27.89	27.06	26.66	26.07	25.65	25.52	25.54	25.62
Industrial 1/													
Liquefied Petroleum Gases	17.54	19.71	20.70	20.90	18.18	17.74	17.40	17.19	16.99	16.79	16.65	16.62	16.69
Distillate Fuel Oil	14.50	15.33	17.18	19.96	16.30	15.72	15.70	14.92	14.44	14.40	13.95	13.53	13.56
Residual Fuel Oil	10.43	9.06	8.50	12.19	11.55	10.86	10.34	9.44	8.99	8.73	8.24	7.85	7.84
Natural Gas 2/	8.37	7.66	7.04	7.42	7.60	7.21	6.89	6.69	6.46	6.27	6.15	6.10	6.16
Metallurgical Coal	3.29	3.54	3.88	4.15	4.14	4.07	3.95	3.82	3.75	3.65	3.53	3.45	3.40
Other Industrial Coal	2.22	2.34	2.42	2.49	2.48	2.42	2.39	2.35	2.34	2.32	2.31	2.29	2.29
Coal to Liquids	--	--	--	--	--	--	1.04	1.10	0.96	0.94	0.96	1.00	1.07
Electricity	17.25	17.97	18.47	19.13	19.72	19.21	18.52	18.14	17.66	17.31	17.22	17.23	17.29
Transportation													
Liquefied Petroleum Gases 3/	20.49	21.72	22.62	22.80	23.93	26.03	25.71	25.50	25.25	25.06	24.93	24.87	24.93
E85 4/	23.89	24.81	25.49	24.88	25.16	23.58	22.11	23.21	21.21	18.96	17.61	17.64	16.55
Motor Gasoline 5/	19.28	21.19	22.52	24.51	22.71	21.23	20.69	20.07	19.51	19.40	18.80	18.30	18.40
Jet Fuel 6/	13.30	14.83	15.00	15.74	16.27	15.77	15.50	14.72	14.08	13.74	13.16	12.75	12.82
Distillate Fuel Oil 7/	18.09	19.72	20.49	22.77	20.33	19.68	19.38	18.58	18.11	18.09	17.65	17.18	17.19
Residual Fuel Oil	8.68	7.89	8.67	10.31	11.06	10.53	10.04	9.63	9.27	9.04	8.56	8.19	8.22
Natural Gas 8/	14.55	14.28	13.46	13.82	14.03	13.60	13.25	13.01	12.72	12.50	12.34	12.24	12.26
Electricity	30.79	29.73	29.69	31.19	31.85	30.95	30.21	30.10	29.39	28.94	28.95	29.03	29.16
Electric Power 9/													
Distillate Fuel Oil	12.62	13.35	14.96	17.35	14.25	13.62	12.92	12.19	11.52	11.26	10.67	10.26	10.27
Residual Fuel Oil	7.40	8.17	8.60	10.50	9.98	9.45	8.97	8.52	8.13	7.87	7.41	7.03	7.05
Natural Gas	8.44	6.87	6.90	7.24	7.40	6.96	6.65	6.49	6.25	6.06	5.93	5.88	5.93
Steam Coal	1.59	1.69	1.73	1.77	1.82	1.84	1.81	1.78	1.76	1.75	1.74	1.72	1.72

Table 20. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted) United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average Price to All Users 10/													
Liquefied Petroleum Gases	17.75	20.35	21.39	21.93	19.68	19.27	18.97	18.79	18.61	18.44	18.32	18.32	18.41
E85 4/	23.89	24.81	25.49	24.88	25.16	23.58	22.11	23.21	21.21	18.96	17.61	17.64	16.55
Motor Gasoline 5/	19.18	21.06	22.39	24.39	22.71	21.23	20.68	20.07	19.51	19.39	18.80	18.30	18.40
Jet Fuel	13.30	14.83	15.00	15.74	16.27	15.77	15.50	14.72	14.08	13.74	13.16	12.75	12.82
Distillate Fuel Oil	17.11	18.56	19.62	22.00	19.10	18.48	18.16	17.46	17.07	17.03	16.57	16.13	16.15
Residual Fuel Oil	8.44	8.21	8.59	10.78	10.87	10.31	9.80	9.30	8.92	8.66	8.19	7.81	7.83
Natural Gas	9.93	9.22	8.76	9.08	9.18	8.72	8.43	8.25	8.06	7.89	7.78	7.74	7.83
Metallurgical Coal	3.29	3.54	3.88	4.15	4.14	4.07	3.95	3.82	3.75	3.65	3.53	3.45	3.40
Other Coal	1.63	1.73	1.78	1.82	1.86	1.88	1.85	1.81	1.79	1.78	1.77	1.76	1.76
Coal to Liquids	--	--	--	--	--	--	1.04	1.10	0.96	0.94	0.96	1.00	1.07
Electricity	24.55	26.10	26.08	26.56	27.39	26.90	26.18	25.85	25.40	25.09	25.00	25.04	25.14
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)													
Residential	221.30	225.38	233.46	242.06	246.19	241.71	238.91	238.71	233.46	232.51	232.60	234.66	237.00
Commercial	159.35	166.54	169.29	175.53	177.30	174.38	172.27	172.28	171.40	171.87	173.76	176.60	180.15
Industrial	203.06	205.11	206.77	222.83	230.22	224.65	220.04	213.98	206.58	201.53	197.41	194.41	193.97
Transportation	489.23	542.63	576.82	628.40	586.48	560.74	553.58	541.26	530.86	530.21	514.93	503.10	505.56
Total Non-Renewable Expenditures	1072.94	1139.66	1186.34	1268.82	1240.18	1201.48	1184.81	1166.24	1142.30	1136.12	1118.69	1108.77	1116.68
Transportation Renewable Expenditures	0.03	0.03	0.04	0.09	0.06	0.06	0.08	0.10	0.09	0.86	3.14	4.90	6.44
Total Expenditures	1072.96	1139.70	1186.39	1268.91	1240.24	1201.54	1184.89	1166.34	1142.39	1136.98	1121.83	1113.67	1123.12

Table 20. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted) United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
Liquefied Petroleum Gases	24.26	24.32	24.23	24.10	24.24	24.35	24.50	24.63	24.78	24.86	25.10	25.27	25.43	0.4%
Distillate Fuel Oil	14.00	14.16	14.27	14.38	14.49	14.69	14.93	15.14	15.38	15.57	15.79	16.04	16.27	-0.4%
Natural Gas	11.38	11.48	11.39	11.29	11.43	11.58	11.76	11.94	12.14	12.23	12.49	12.72	12.91	-0.2%
Electricity	30.20	30.30	30.20	30.09	30.21	30.24	30.26	30.33	30.38	30.36	30.52	30.57	30.63	0.0%
Commercial														
Distillate Fuel Oil	12.63	12.96	13.24	13.21	13.35	13.49	13.65	13.88	14.12	14.30	14.50	14.75	15.00	0.1%
Residual Fuel	7.69	7.83	7.95	8.06	8.18	8.33	8.47	8.62	8.74	8.72	8.92	9.08	9.22	0.3%
Natural Gas	9.87	9.97	9.91	9.81	9.97	10.11	10.30	10.47	10.67	10.76	11.03	11.24	11.43	0.0%
Electricity	25.66	25.76	25.64	25.45	25.55	25.57	25.63	25.71	25.78	25.79	26.01	26.06	26.17	-0.2%
Industrial 1/														
Liquefied Petroleum Gases	16.77	16.85	16.79	16.67	16.79	16.88	16.99	17.10	17.21	17.25	17.51	17.65	17.79	-0.4%
Distillate Fuel Oil	13.75	14.22	14.62	14.50	14.67	14.76	14.86	15.10	15.34	15.53	15.72	15.97	16.26	0.2%
Residual Fuel Oil	7.96	8.14	8.29	8.40	8.49	8.66	8.84	9.00	9.16	9.17	9.35	9.46	9.62	0.2%
Natural Gas 2/	6.23	6.29	6.21	6.09	6.21	6.31	6.44	6.56	6.71	6.75	6.98	7.14	7.29	-0.2%
Metallurgical Coal	3.39	3.40	3.42	3.43	3.45	3.47	3.48	3.51	3.53	3.54	3.56	3.58	3.60	0.1%
Other Industrial Coal	2.28	2.28	2.28	2.28	2.29	2.30	2.30	2.30	2.31	2.31	2.32	2.32	2.33	0.0%
Coal to Liquids	1.11	1.08	1.09	1.11	1.13	1.15	1.17	1.17	1.20	1.23	1.28	1.29	1.30	--
Electricity	17.34	17.38	17.27	17.12	17.19	17.20	17.25	17.30	17.33	17.33	17.50	17.56	17.63	-0.1%
Transportation														
Liquefied Petroleum Gases 3/	24.99	25.04	24.94	24.79	24.90	25.01	25.15	25.28	25.41	25.48	25.71	25.88	26.03	0.8%
E85 4/	16.72	18.54	18.15	17.28	17.77	18.36	18.79	18.50	18.87	19.02	19.28	19.58	19.62	-1.0%
Motor Gasoline 5/	18.61	19.16	19.64	19.35	19.51	19.58	19.53	19.67	19.77	19.87	20.05	20.24	20.37	-0.2%
Jet Fuel 6/	12.97	13.13	13.27	13.42	13.59	13.76	13.95	14.15	14.41	14.66	14.90	15.15	15.37	0.1%
Distillate Fuel Oil 7/	17.35	17.86	18.26	18.09	18.23	18.28	18.31	18.54	18.77	18.93	19.08	19.31	19.59	0.0%
Residual Fuel Oil	8.37	8.53	8.69	8.82	8.91	9.14	9.35	9.50	9.73	9.90	10.08	10.24	10.39	1.2%
Natural Gas 8/	12.28	12.30	12.15	11.97	12.04	12.10	12.20	12.28	12.40	12.41	12.59	12.72	12.83	-0.4%
Electricity	29.30	29.20	29.05	28.72	28.82	28.65	28.79	28.95	29.04	29.08	29.36	29.41	29.65	0.0%
Electric Power 9/														
Distillate Fuel Oil	10.42	10.57	10.69	10.80	10.93	11.14	11.39	11.59	11.86	12.04	12.25	12.50	12.71	-0.2%
Residual Fuel Oil	7.19	7.35	7.50	7.63	7.73	7.91	8.09	8.25	8.44	8.56	8.75	8.89	9.04	0.4%
Natural Gas	5.98	6.04	5.95	5.81	5.92	6.02	6.14	6.26	6.38	6.44	6.66	6.80	6.93	0.0%
Steam Coal	1.71	1.71	1.72	1.72	1.72	1.73	1.73	1.74	1.74	1.75	1.76	1.77	1.78	0.2%

Table 20. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted) United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average Price to All Users 10/														
Liquefied Petroleum Gases	18.51	18.63	18.59	18.49	18.64	18.75	18.90	19.03	19.16	19.22	19.49	19.66	19.82	-0.1%
E85 4/	16.72	18.54	18.15	17.28	17.77	18.36	18.79	18.50	18.87	19.02	19.28	19.58	19.62	-1.0%
Motor Gasoline 5/	18.60	19.16	19.64	19.35	19.51	19.57	19.53	19.67	19.77	19.87	20.05	20.24	20.37	-0.1%
Jet Fuel	12.97	13.13	13.27	13.42	13.59	13.76	13.95	14.15	14.41	14.66	14.90	15.15	15.37	0.1%
Distillate Fuel Oil	16.33	16.80	17.20	17.06	17.23	17.30	17.39	17.62	17.85	18.03	18.21	18.46	18.74	0.0%
Residual Fuel Oil	7.97	8.14	8.29	8.41	8.51	8.71	8.91	9.06	9.26	9.38	9.57	9.72	9.87	0.8%
Natural Gas	7.93	8.04	7.98	7.88	8.03	8.16	8.33	8.49	8.66	8.73	8.99	9.18	9.36	0.1%
Metallurgical Coal	3.39	3.40	3.42	3.43	3.45	3.47	3.48	3.51	3.53	3.54	3.56	3.58	3.60	0.1%
Other Coal	1.74	1.74	1.75	1.75	1.75	1.76	1.76	1.77	1.77	1.78	1.79	1.80	1.81	0.2%
Coal to Liquids	1.11	1.08	1.09	1.11	1.13	1.15	1.17	1.17	1.20	1.23	1.28	1.29	1.30	--
Electricity	25.20	25.31	25.23	25.09	25.22	25.27	25.34	25.43	25.51	25.53	25.75	25.83	25.93	0.0%
Non-Renewable Energy Expenditures by Sector (billion 2006 dollars)														
Residential	239.63	242.47	243.22	243.12	246.52	249.57	253.39	256.33	260.09	262.81	268.02	271.05	274.70	0.8%
Commercial	183.57	187.36	189.37	190.91	194.94	198.48	202.28	206.24	210.35	213.60	218.90	223.02	227.37	1.3%
Industrial	193.34	193.94	193.16	190.35	191.49	192.09	193.17	194.97	197.04	197.95	200.93	202.59	203.93	0.0%
Transportation	511.65	522.46	530.80	522.27	520.86	526.71	530.73	539.68	548.68	556.51	566.41	577.90	587.86	0.3%
Total Non-Renewable Expenditures	1128.19	1146.24	1156.54	1146.65	1153.81	1166.85	1179.57	1197.22	1216.15	1230.87	1254.26	1274.55	1293.86	0.5%
Transportation Renewable Expenditures	8.00	13.76	17.64	21.51	29.18	28.91	28.59	26.21	25.87	26.31	26.32	25.81	26.35	32.2%
Total Expenditures	1136.19	1160.00	1174.18	1168.16	1182.99	1195.76	1208.17	1223.43	1242.02	1257.18	1280.58	1300.36	1320.22	0.6%

Table 20. Energy Prices by Sector and Source
(2006 dollars per million Btu, unless otherwise noted) United States

1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Excludes use for lease and plant fuel.

3/ Includes Federal and State taxes while excluding county and local taxes.

4/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.

7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2005 and 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). 2006 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 and 2006 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and the Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). 2005 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and estimated state taxes, federal taxes, and dispensing costs or charges. 2006 transportation sector natural gas delivered prices are model results. 2005 and 2006 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2006 through April 2007, Table 4.11.A. 2005 and 2006 coal prices based on: EIA, Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. 2005 and 2006 electricity prices: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). 2005 and 2006 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 21. Residential Sector Equipment Stock and Efficiency

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Equipment Stock (million units)													
Main Space Heaters													
Electric Heat Pumps	9.01	9.56	9.97	10.28	10.67	11.14	11.66	12.19	12.70	13.22	13.73	14.25	14.76
Electric Other	24.64	24.69	24.70	24.69	24.70	24.74	24.80	24.85	24.91	24.98	25.05	25.12	25.19
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Other	58.61	59.42	59.99	60.38	60.89	61.58	62.38	63.17	63.95	64.71	65.48	66.26	67.00
Distillate Fuel Oil	7.77	7.74	7.70	7.64	7.60	7.57	7.55	7.53	7.51	7.48	7.46	7.45	7.43
Liquefied Petroleum Gases	6.03	6.09	6.09	6.08	6.08	6.09	6.12	6.15	6.18	6.21	6.24	6.27	6.30
Kerosene	0.69	0.68	0.68	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Wood Stoves	2.89	2.85	2.81	2.77	2.73	2.69	2.65	2.61	2.57	2.54	2.50	2.46	2.43
Geothermal Heat Pumps	0.15	0.19	0.21	0.22	0.24	0.26	0.28	0.30	0.33	0.35	0.37	0.39	0.41
Total	109.80	111.22	112.16	112.74	113.58	114.74	116.11	117.47	118.82	120.15	121.50	122.86	124.18
Space Cooling (million units)													
Electric Heat Pumps	9.01	9.56	9.97	10.28	10.67	11.14	11.66	12.19	12.70	13.22	13.73	14.25	14.76
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal Heat Pumps	0.15	0.19	0.21	0.22	0.24	0.26	0.28	0.30	0.33	0.35	0.37	0.39	0.41
Central Air Conditioners	56.70	57.76	58.73	59.47	60.38	61.47	62.69	63.90	65.09	66.27	67.46	68.66	69.82
Room Air Conditioners	51.32	51.34	51.29	51.20	51.15	51.14	51.16	51.18	51.20	51.22	51.25	51.27	51.29
Total	117.18	118.85	120.20	121.18	122.43	124.01	125.79	127.57	129.32	131.05	132.81	134.57	136.28
Water Heaters (million units)													
Electric	43.05	43.67	44.10	44.40	44.79	45.29	45.88	46.46	47.03	47.60	48.18	48.76	49.33
Natural Gas	58.66	59.47	60.01	60.37	60.86	61.54	62.33	63.11	63.88	64.64	65.40	66.17	66.91
Distillate Fuel Oil	4.04	4.00	3.95	3.89	3.84	3.79	3.75	3.71	3.68	3.64	3.61	3.58	3.55
Liquefied Petroleum Gases	4.03	4.07	4.06	4.03	4.02	4.02	4.04	4.06	4.08	4.10	4.12	4.14	4.17
Solar Thermal	0.17	0.18	0.19	0.21	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38
Total	109.95	111.38	112.31	112.89	113.73	114.89	116.26	117.62	118.96	120.29	121.65	123.01	124.33
Cooking Equipment (million units) 1/													
Electric	65.71	66.84	67.62	68.15	68.86	69.81	70.89	71.98	73.05	74.11	75.18	76.26	77.32
Natural Gas	38.66	38.92	39.08	39.16	39.30	39.52	39.79	40.06	40.32	40.58	40.84	41.11	41.37
Liquefied Petroleum Gases	5.62	5.66	5.65	5.62	5.61	5.61	5.62	5.64	5.65	5.66	5.67	5.69	5.70
Total	109.99	111.42	112.35	112.93	113.77	114.94	116.31	117.67	119.01	120.35	121.70	123.06	124.38
Clothes Dryers (million units)													
Electric	67.23	68.34	69.26	69.92	70.76	71.84	73.05	74.26	75.44	76.62	77.81	79.00	80.15
Natural Gas	19.37	19.65	19.83	19.94	20.09	20.31	20.57	20.83	21.08	21.32	21.57	21.82	22.06
Total	86.60	88.00	89.08	89.86	90.86	92.15	93.62	95.08	96.52	97.94	99.38	100.82	102.21

Table 21. Residential Sector Equipment Stock and Efficiency

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other Appliances (million units)													
Refrigerators	137.59	139.05	139.97	140.50	141.32	142.49	143.88	145.27	146.63	147.98	149.35	150.73	152.07
Freezers	38.43	38.78	38.99	39.08	39.26	39.53	39.87	40.21	40.54	40.86	41.19	41.53	41.84
Stock Average Equipment Efficiency													
Main Space Heaters													
Electric Heat Pumps (HSPF)	7.73	7.81	7.88	7.93	7.96	8.00	8.02	8.03	8.04	8.04	8.04	8.05	8.04
Natural Gas Heat Pumps (GCOP)	1.30	1.30	1.30	1.30	1.30	1.32	1.33	1.34	1.34	1.35	1.36	1.36	1.37
Geothermal Heat Pumps (COP)	3.30	3.30	3.30	3.30	3.30	3.33	3.35	3.37	3.38	3.40	3.41	3.42	3.43
Natural Gas Furnace (AFUE)	0.81	0.82	0.82	0.82	0.83	0.83	0.83	0.84	0.84	0.84	0.84	0.84	0.84
Distillate Furnace (AFUE)	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Space Cooling													
Electric Heat Pumps (SEER)	11.37	11.69	11.94	12.15	12.35	12.54	12.72	12.87	13.01	13.13	13.24	13.33	13.41
Natural Gas Heat Pumps (GCOP)	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Geothermal Heat Pumps (EER)	13.80	13.88	13.93	13.95	13.98	14.23	14.43	14.61	14.76	14.90	15.03	15.14	15.26
Central Air Conditioners (SEER)	11.06	11.32	11.56	11.79	12.01	12.22	12.41	12.60	12.77	12.92	13.06	13.19	13.29
Room Air Conditioners (EER)	9.36	9.42	9.46	9.52	9.57	9.63	9.68	9.73	9.78	9.82	9.86	9.89	9.91
Water Heaters													
Electric (EF)	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91
Natural Gas (EF)	0.58	0.58	0.59	0.59	0.59	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63
Distillate Fuel Oil (EF)	0.55	0.55	0.55	0.56	0.57	0.57	0.58	0.58	0.59	0.59	0.59	0.59	0.60
Liquefied Petroleum Gases (EF)	0.57	0.59	0.60	0.61	0.62	0.63	0.65	0.66	0.67	0.68	0.69	0.69	0.70
Other Appliances (kilowatthours per year) 2/													
Refrigerators	673.06	657.01	642.49	628.91	616.17	604.59	594.36	585.38	577.77	571.19	565.62	560.97	557.19
Freezers	481.41	469.17	459.31	450.85	443.60	437.45	432.60	428.85	425.80	423.54	422.03	421.22	421.02
Building Shell Efficiency Index 3/													
Space Heating													
Pre-1998 Homes	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.97	0.97	0.97	0.97
New Construction	1.00	0.77	0.78	0.80	0.79	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.75
All Homes	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.95	0.95	0.94	0.94
Space Cooling													
Pre-1998 Homes	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
New Construction	1.00	1.04	1.05	1.07	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
All Homes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Table 21. Residential Sector Equipment Stock and Efficiency

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Equipment Stock (million units)														
Main Space Heaters														
Electric Heat Pumps	15.26	15.75	16.23	16.70	17.17	17.63	18.08	18.55	19.02	19.48	19.93	20.37	20.82	3.3%
Electric Other	25.26	25.33	25.40	25.46	25.53	25.59	25.66	25.73	25.80	25.87	25.94	26.02	26.09	0.2%
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.9%
Natural Gas Other	67.73	68.44	69.13	69.80	70.46	71.10	71.74	72.38	73.03	73.67	74.27	74.87	75.47	1.0%
Distillate Fuel Oil	7.41	7.39	7.37	7.35	7.33	7.31	7.29	7.27	7.24	7.22	7.20	7.18	7.16	-0.3%
Liquefied Petroleum Gases	6.32	6.35	6.38	6.40	6.42	6.45	6.47	6.50	6.52	6.55	6.57	6.59	6.62	0.3%
Kerosene	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	-0.1%
Wood Stoves	2.39	2.35	2.32	2.28	2.25	2.21	2.17	2.14	2.10	2.07	2.03	2.00	1.97	-1.5%
Geothermal Heat Pumps	0.43	0.45	0.47	0.48	0.50	0.52	0.54	0.56	0.58	0.59	0.61	0.63	0.65	5.3%
Total	125.47	126.73	127.95	129.15	130.32	131.47	132.62	133.79	134.96	136.11	137.23	138.32	139.43	0.9%
Space Cooling (million units)														
Electric Heat Pumps	15.26	15.75	16.23	16.70	17.17	17.63	18.08	18.55	19.02	19.48	19.93	20.37	20.82	3.3%
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.9%
Geothermal Heat Pumps	0.43	0.45	0.47	0.48	0.50	0.52	0.54	0.56	0.58	0.59	0.61	0.63	0.65	5.3%
Central Air Conditioners	70.97	72.08	73.18	74.25	75.31	76.35	77.38	78.42	79.46	80.49	81.48	82.47	83.45	1.5%
Room Air Conditioners	51.31	51.33	51.34	51.35	51.35	51.36	51.37	51.38	51.39	51.40	51.40	51.40	51.41	0.0%
Total	137.96	139.60	141.21	142.79	144.34	145.86	147.37	148.91	150.44	151.96	153.42	154.87	156.33	1.1%
Water Heaters (million units)														
Electric	49.88	50.43	50.96	51.48	52.00	52.50	53.01	53.53	54.05	54.56	55.07	55.57	56.08	1.0%
Natural Gas	67.63	68.33	69.01	69.68	70.33	70.97	71.60	72.24	72.89	73.51	74.11	74.70	75.29	1.0%
Distillate Fuel Oil	3.52	3.49	3.46	3.43	3.40	3.37	3.34	3.31	3.28	3.25	3.22	3.19	3.16	-1.0%
Liquefied Petroleum Gases	4.19	4.21	4.23	4.25	4.27	4.28	4.30	4.32	4.34	4.36	4.38	4.40	4.42	0.3%
Solar Thermal	0.40	0.41	0.43	0.45	0.47	0.49	0.51	0.52	0.54	0.56	0.58	0.59	0.61	5.2%
Total	125.61	126.87	128.09	129.29	130.46	131.61	132.76	133.92	135.10	136.25	137.36	138.46	139.56	0.9%
Cooking Equipment (million units) 1/														
Electric	78.35	79.36	80.35	81.32	82.27	83.20	84.14	85.08	86.03	86.97	87.88	88.78	89.69	1.2%
Natural Gas	41.61	41.85	42.08	42.31	42.53	42.74	42.95	43.16	43.37	43.57	43.76	43.94	44.12	0.5%
Liquefied Petroleum Gases	5.71	5.71	5.72	5.72	5.73	5.73	5.74	5.75	5.77	5.79	5.80	5.81	5.83	0.1%
Total	125.67	126.93	128.15	129.35	130.53	131.68	132.83	133.99	135.17	136.32	137.43	138.53	139.64	0.9%
Clothes Dryers (million units)														
Electric	81.28	82.38	83.45	84.51	85.54	86.55	87.55	88.57	89.58	90.58	91.54	92.49	93.44	1.3%
Natural Gas	22.29	22.52	22.74	22.95	23.16	23.36	23.56	23.77	23.97	24.16	24.35	24.54	24.72	1.0%
Total	103.57	104.90	106.19	107.46	108.70	109.91	111.11	112.33	113.55	114.74	115.89	117.02	118.16	1.2%

Table 21. Residential Sector Equipment Stock and Efficiency

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Other Appliances (million units)														
Refrigerators	153.37	154.64	155.87	157.07	158.25	159.41	160.56	161.73	162.91	164.06	165.17	166.27	167.38	0.8%
Freezers	42.15	42.45	42.73	43.01	43.28	43.54	43.80	44.07	44.33	44.59	44.83	45.07	45.31	0.7%
Stock Average Equipment Efficiency														
Main Space Heaters														
Electric Heat Pumps (HSPF)	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.05	8.05	0.1%
Natural Gas Heat Pumps (GCOP)	1.37	1.38	1.38	1.38	1.39	1.39	1.39	1.39	1.40	1.40	1.40	1.40	1.40	0.3%
Geothermal Heat Pumps (COP)	3.44	3.45	3.48	3.51	3.54	3.56	3.58	3.60	3.62	3.64	3.66	3.68	3.70	0.5%
Natural Gas Furnace (AFUE)	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.84	0.1%
Distillate Furnace (AFUE)	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.0%
Space Cooling														
Electric Heat Pumps (SEER)	13.47	13.53	13.59	13.64	13.68	13.72	13.74	13.77	13.78	13.80	13.81	13.82	13.84	0.7%
Natural Gas Heat Pumps (GCOP)	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.0%
Geothermal Heat Pumps (EER)	15.37	15.47	15.71	15.90	16.09	16.27	16.44	16.60	16.76	16.91	17.05	17.18	17.32	0.9%
Central Air Conditioners (SEER)	13.39	13.47	13.56	13.64	13.70	13.76	13.80	13.84	13.87	13.89	13.92	13.94	13.96	0.9%
Room Air Conditioners (EER)	9.93	9.95	9.97	9.98	9.99	10.00	10.01	10.02	10.03	10.03	10.04	10.05	10.05	0.3%
Water Heaters														
Electric (EF)	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.2%
Natural Gas (EF)	0.63	0.63	0.63	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.6%
Distillate Fuel Oil (EF)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61	0.4%
Liquefied Petroleum Gases (EF)	0.70	0.71	0.71	0.72	0.72	0.73	0.73	0.74	0.75	0.75	0.76	0.76	0.76	1.1%
Other Appliances (kilowatthours per year) 2/														
Refrigerators	554.10	551.63	549.10	546.92	545.06	543.55	542.40	541.61	541.21	541.24	541.33	541.36	541.33	-0.8%
Freezers	421.20	421.65	422.38	423.25	424.26	425.41	426.69	427.91	429.06	430.14	431.13	432.03	432.86	-0.3%
Building Shell Efficiency Index 3/														
Space Heating														
Pre-1998 Homes	0.96	0.96	0.96	0.95	0.95	0.95	0.94	0.94	0.94	0.93	0.93	0.93	0.92	-0.3%
New Construction	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.74	0.74	0.74	-0.2%
All Homes	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.89	0.89	0.88	0.88	-0.5%
Space Cooling														
Pre-1998 Homes	0.99	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.97	-0.1%
New Construction	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	0.1%
All Homes	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.0%

Table 21. Residential Sector Equipment Stock and Efficiency

1/ Does not include microwave ovens or outdoor grills.

2/ Kilowatthours per year to run the appliance under certain test conditions as specified by the Department of Energy.

3/ The building shell efficiency index sets the heating and cooling value at 1.00 for an average home in 2005 (by type) in each Census division. The values listed for New Construction represent the change in heating and cooling load based on the difference in physical size and shell attributes for a newly-constructed home (by type and Census division). As an example, a value of 1.05 for cooling in the New Construction row equates to a cooling load 5 percent greater than the 2005 stock, after accounting for the physical size difference and efficiency gains from better insulation and windows.

HSPF = Heating Seasonal Performance Factor: The total heating output of a heat pump in Btu during its normal annual usage period for heating divided by total electric input in watt-hours during the same period.

COP = Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input.

GCOP = Gas Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input.

AFUE = Annual Fuel Utilization Efficiency: Efficiency rating based on average usage, including on and off cycling, as set out in the standardized Department of Energy test procedures.

SEER = Seasonal Energy Efficiency Ratio: The total cooling of a central unitary air conditioner or a unitary heat pump in Btu during its normal annual usage period for cooling divided by the total electric energy input in watt-hours during the same period.

EER = Energy Efficiency Ratio: A ratio calculated by dividing the cooling capacity in Btu per hour by the power input in watts at any given set of rating conditions, expressed in Btu per hour per watt.

EF = Efficiency Factor: Efficiency (measured in Btu out / Btu in) of water heaters under certain test conditions specified by the Department of Energy.

Kilowatthours per year = Kilowatthours per year to run the appliance under certain test conditions as specified by the Department of Energy.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 22. Commercial Sector Energy Consumption, Floorspace and Equipment Efficiency

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Commercial Building Delivered													
Energy Consumption (quadrillion Btu) 1/													
Assembly	0.52	0.51	0.52	0.53	0.52	0.52	0.53	0.53	0.54	0.54	0.55	0.56	0.56
Education	0.84	0.82	0.85	0.86	0.86	0.86	0.88	0.89	0.90	0.92	0.93	0.94	0.95
Food Sales	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29
Food Service	0.43	0.42	0.43	0.43	0.43	0.43	0.43	0.44	0.45	0.46	0.46	0.47	0.47
Health Care	0.42	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.47	0.49	0.50	0.51	0.52
Lodging	0.54	0.53	0.53	0.53	0.53	0.53	0.54	0.55	0.56	0.58	0.59	0.60	0.61
Office - Large	0.71	0.72	0.75	0.77	0.78	0.79	0.81	0.82	0.84	0.86	0.88	0.90	0.92
Office - Small	0.56	0.56	0.59	0.60	0.60	0.61	0.62	0.63	0.64	0.66	0.67	0.68	0.70
Mercantile/Service	1.38	1.36	1.41	1.42	1.42	1.43	1.45	1.47	1.49	1.52	1.54	1.56	1.58
Warehouse	0.41	0.40	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.47	0.48	0.49	0.50
Other	0.49	0.49	0.51	0.53	0.54	0.55	0.56	0.58	0.59	0.60	0.62	0.63	0.65
Total	6.55	6.47	6.71	6.77	6.81	6.86	6.98	7.11	7.23	7.37	7.50	7.63	7.75
Commercial Building Floorspace													
(billion square feet)													
Assembly	7.83	7.90	7.97	8.05	8.12	8.19	8.26	8.33	8.39	8.46	8.53	8.60	8.67
Education	10.11	10.23	10.35	10.47	10.60	10.72	10.85	10.98	11.11	11.24	11.37	11.50	11.64
Food Sales	1.28	1.30	1.31	1.33	1.34	1.36	1.38	1.39	1.41	1.42	1.44	1.46	1.47
Food Service	1.69	1.71	1.74	1.76	1.78	1.80	1.83	1.85	1.87	1.90	1.92	1.94	1.97
Health Care	1.97	2.00	2.03	2.06	2.10	2.13	2.17	2.20	2.24	2.28	2.31	2.35	2.39
Lodging	5.23	5.31	5.38	5.46	5.55	5.63	5.71	5.79	5.87	5.95	6.03	6.11	6.19
Office - Large	7.06	7.14	7.22	7.29	7.36	7.43	7.50	7.57	7.64	7.72	7.80	7.89	7.98
Office - Small	6.79	6.86	6.94	7.00	7.07	7.14	7.21	7.28	7.36	7.44	7.52	7.61	7.70
Mercantile/Service	15.60	15.79	15.98	16.17	16.36	16.56	16.76	16.96	17.16	17.37	17.58	17.79	18.00
Warehouse	10.50	10.69	10.88	11.06	11.24	11.42	11.60	11.78	11.97	12.15	12.33	12.51	12.68
Other	5.71	5.86	6.01	6.15	6.29	6.42	6.55	6.68	6.81	6.94	7.07	7.20	7.34
Total	73.77	74.80	75.82	76.81	77.81	78.80	79.80	80.80	81.83	82.86	83.91	84.97	86.03
Stock Average Equipment Efficiency 2/													
Space Heating													
Electricity	1.20	1.22	1.24	1.27	1.29	1.31	1.33	1.34	1.36	1.37	1.39	1.40	1.41
Natural Gas	0.73	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.77
Distillate Fuel Oil	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Space Cooling													
Electricity	2.73	2.76	2.79	2.81	2.84	2.87	2.90	2.93	2.96	2.98	3.00	3.03	3.05
Natural Gas	0.83	0.83	0.84	0.85	0.85	0.86	0.86	0.87	0.88	0.88	0.89	0.89	0.90
Water Heating													
Electricity	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Natural Gas	0.79	0.80	0.81	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Distillate Fuel Oil	0.77	0.77	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Ventilation (cubic feet per minute per Btu) 3/													
Electricity	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26

Table 22. Commercial Sector Energy Consumption, Floorspace and Equipment Efficiency

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cooking													
Electricity	0.71	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.75
Natural Gas	0.51	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Lighting Efficacy 4/ (efficacy in lumens per watt)													
Electricity	39.24	40.25	41.15	42.00	43.02	43.89	44.59	45.16	45.63	46.01	46.32	46.59	46.83
Refrigeration													
Electricity	1.76	1.77	1.79	1.81	1.82	1.84	1.86	1.87	1.88	1.89	1.90	1.91	1.92
Distributed Generation and Combined Heat and Power													
Generating Capacity (gigawatts)													
Petroleum	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	0.62	0.63	0.64	0.64	0.65	0.66	0.68	0.69	0.71	0.73	0.78	0.83	0.88
Solar Photovoltaic	0.16	0.24	0.40	0.49	0.50	0.51	0.52	0.52	0.53	0.54	0.59	0.64	0.69
Wind	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04
Other 5/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Total	1.39	1.46	1.62	1.72	1.74	1.75	1.78	1.80	1.83	1.86	1.96	2.06	2.17
Net Generation (billion kilowatthours)													
Petroleum	0.38	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Natural Gas	4.47	4.54	4.58	4.63	4.70	4.79	4.88	4.99	5.12	5.28	5.62	5.97	6.38
Solar Photovoltaic	0.25	0.38	0.63	0.79	0.80	0.81	0.82	0.84	0.85	0.87	0.95	1.03	1.11
Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.05
Other 5/	3.84	3.89	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
Total	8.96	9.00	9.27	9.48	9.56	9.66	9.76	9.89	10.04	10.22	10.64	11.07	11.58
Disposition													
Sales to the Grid	5.65	5.65	5.64	5.65	5.65	5.66	5.66	5.66	5.67	5.68	5.69	5.70	5.71
Generation for Own Use	3.31	3.35	3.62	3.83	3.91	4.00	4.10	4.23	4.37	4.54	4.94	5.37	5.87
Energy Input (trillion Btu)													
Petroleum	3.79	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
Natural Gas	65.80	66.73	67.20	67.80	68.58	69.61	70.65	71.90	73.35	75.11	78.54	82.18	86.43
Solar Photovoltaic	0.86	1.30	2.15	2.69	2.73	2.75	2.81	2.86	2.91	2.97	3.23	3.51	3.80
Wind	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.10	0.11	0.13	0.17
Other 5/	74.27	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26
Total	144.78	145.13	146.46	147.59	148.42	149.46	150.56	151.87	153.37	155.19	158.90	162.84	167.42

Table 22. Commercial Sector Energy Consumption, Floorspace and Equipment Efficiency

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Commercial Building Delivered														
Energy Consumption (quadrillion Btu) 1/														
Assembly	0.56	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.8%
Education	0.96	0.97	0.98	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.2%
Food Sales	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	1.1%
Food Service	0.48	0.49	0.49	0.50	0.50	0.51	0.52	0.52	0.53	0.54	0.54	0.55	0.55	1.2%
Health Care	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	1.9%
Lodging	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.72	0.73	0.74	0.75	1.5%
Office - Large	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	2.0%
Office - Small	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.82	1.6%
Mercantile/Service	1.60	1.62	1.64	1.66	1.68	1.70	1.72	1.74	1.76	1.78	1.80	1.82	1.84	1.3%
Warehouse	0.51	0.52	0.52	0.53	0.54	0.55	0.55	0.56	0.57	0.58	0.58	0.59	0.59	1.6%
Other	0.66	0.67	0.69	0.70	0.71	0.73	0.74	0.75	0.76	0.78	0.79	0.80	0.81	2.1%
Total	7.86	7.97	8.08	8.21	8.33	8.44	8.55	8.66	8.77	8.88	8.99	9.10	9.22	1.5%
Commercial Building Floorspace														
(billion square feet)														
Assembly	8.74	8.81	8.88	8.95	9.02	9.09	9.16	9.23	9.30	9.37	9.45	9.52	9.59	0.8%
Education	11.77	11.91	12.05	12.20	12.34	12.49	12.64	12.79	12.95	13.11	13.27	13.43	13.60	1.2%
Food Sales	1.49	1.51	1.53	1.54	1.56	1.58	1.60	1.62	1.63	1.65	1.67	1.69	1.71	1.2%
Food Service	1.99	2.02	2.04	2.06	2.09	2.11	2.14	2.17	2.19	2.22	2.25	2.27	2.30	1.2%
Health Care	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.72	2.76	2.81	2.85	2.90	2.95	1.6%
Lodging	6.27	6.36	6.45	6.54	6.63	6.73	6.83	6.94	7.05	7.16	7.27	7.38	7.49	1.4%
Office - Large	8.07	8.17	8.26	8.35	8.44	8.53	8.62	8.71	8.80	8.89	8.98	9.07	9.16	1.0%
Office - Small	7.79	7.88	7.97	8.06	8.15	8.23	8.32	8.41	8.49	8.58	8.67	8.76	8.85	1.1%
Mercantile/Service	18.21	18.42	18.63	18.85	19.07	19.29	19.51	19.74	19.97	20.20	20.44	20.68	20.93	1.2%
Warehouse	12.85	13.02	13.19	13.37	13.54	13.72	13.91	14.10	14.30	14.49	14.69	14.88	15.08	1.4%
Other	7.47	7.60	7.73	7.87	8.00	8.14	8.27	8.41	8.55	8.69	8.82	8.96	9.10	1.9%
Total	87.10	88.17	89.25	90.34	91.44	92.55	93.68	94.83	96.00	97.18	98.36	99.56	100.76	1.2%
Stock Average Equipment Efficiency 2/														
Space Heating														
Electricity	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.48	1.49	1.50	1.51	1.52	1.53	0.9%
Natural Gas	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.4%
Distillate Fuel Oil	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.2%
Space Cooling														
Electricity	3.06	3.08	3.10	3.12	3.14	3.15	3.17	3.18	3.20	3.21	3.22	3.23	3.25	0.7%
Natural Gas	0.90	0.91	0.91	0.92	0.92	0.92	0.93	0.93	0.94	0.94	0.94	0.95	0.95	0.5%
Water Heating														
Electricity	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.1%
Natural Gas	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84	0.84	0.2%
Distillate Fuel Oil	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.1%
Ventilation (cubic feet per minute per Btu) 3/														
Electricity	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.7%

Table 22. Commercial Sector Energy Consumption, Floorspace and Equipment Efficiency

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cooking														
Electricity	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.2%
Natural Gas	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.1%
Lighting Efficacy 4/ (efficacy in lumens per watt)														
Electricity	47.04	47.22	47.37	47.48	47.58	47.66	47.73	47.81	47.87	47.92	47.98	48.02	48.07	0.7%
Refrigeration														
Electricity	1.92	1.93	1.93	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.96	1.96	0.4%
Distributed Generation and Combined Heat and Power														
Generating Capacity (gigawatts)														
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.3%
Natural Gas	0.95	1.02	1.11	1.20	1.31	1.42	1.55	1.69	1.85	2.01	2.20	2.40	2.62	6.1%
Solar Photovoltaic	0.74	0.80	0.86	0.93	1.00	1.08	1.17	1.27	1.33	1.40	1.49	1.59	1.70	8.4%
Wind	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.20	0.22	0.24	11.4%
Other 5/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.0%
Total	2.30	2.44	2.60	2.78	2.97	3.18	3.41	3.67	3.90	4.16	4.46	4.77	5.13	5.4%
Net Generation (billion kilowatthours)														
Petroleum	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.3%
Natural Gas	6.85	7.38	8.00	8.68	9.45	10.30	11.22	12.24	13.38	14.60	15.95	17.41	19.02	6.2%
Solar Photovoltaic	1.20	1.30	1.41	1.52	1.65	1.79	1.94	2.10	2.21	2.34	2.48	2.65	2.84	8.7%
Wind	0.06	0.08	0.10	0.12	0.14	0.17	0.19	0.21	0.24	0.26	0.29	0.32	0.35	11.9%
Other 5/	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	0.0%
Total	12.15	12.80	13.54	14.36	15.28	16.29	17.39	18.60	19.86	21.24	22.76	24.42	26.26	4.6%
Disposition														
Sales to the Grid	5.73	5.75	5.77	5.80	5.83	5.88	5.93	5.99	6.07	6.16	6.27	6.41	6.57	0.6%
Generation for Own Use	6.42	7.06	7.77	8.57	9.45	10.41	11.46	12.60	13.79	15.08	16.49	18.02	19.69	7.7%
Energy Input (trillion Btu)														
Petroleum	1.76	1.76	1.76	1.77	1.77	1.77	1.78	1.79	1.79	1.81	1.82	1.84	1.87	0.3%
Natural Gas	91.28	96.78	103.02	109.98	117.72	126.18	135.35	145.38	156.50	168.42	181.44	195.45	210.83	4.9%
Solar Photovoltaic	4.10	4.43	4.80	5.19	5.62	6.09	6.61	7.18	7.54	7.97	8.48	9.05	9.68	8.7%
Wind	0.22	0.28	0.35	0.42	0.49	0.56	0.64	0.72	0.81	0.90	0.99	1.09	1.19	11.9%
Other 5/	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	75.26	0.0%
Total	172.63	178.51	185.19	192.61	200.85	209.87	219.64	230.32	241.91	254.35	267.99	282.69	298.84	3.1%

Table 22. Commercial Sector Energy Consumption, Floorspace and Equipment Efficiency

- 1/ Excludes commercial sector energy consumption (from uses such as street lights or municipal water services) that is not attributable to buildings.
 - 2/ Unless noted otherwise, the efficiency measures are in the terms of Btu of energy output divided by Btu of energy input.
 - 3/ The efficiency measure for ventilation is in terms of cubic feet per minute (cfm) of ventilation air delivered divided by Btu of energy input.
 - 4/ A measurement of the ratio of light produced by a light source to the electrical power used to produce that quantity of light, expressed in lumens per watt.
 - 5/ May include coal, wood, municipal solid waste, and hydropower.
- Btu = British thermal unit.
- Note: Totals may not equal sum of components due to independent rounding.
- Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 23. Industrial Sector Macroeconomic Indicators

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gross Domestic Product (billion 2000 dollars)	11003.5	11319.4	11562.0	11746.5	12052.1	12453.0	12856.7	13203.8	13521.0	13844.4	14198.5	14561.7	14907.7
Nonfarm Employment (millions)	133.6	136.1	137.9	138.9	140.3	142.4	144.7	146.5	147.6	148.6	149.7	150.8	151.8
Value of Shipments (billion 2000 dollars)													
Nonmanufacturing Sector													
Agriculture/Forestry/Fishing/Hunting	262.5	261.2	273.3	272.6	267.8	270.6	274.0	276.9	278.5	280.2	281.4	282.3	282.4
Mining	218.5	224.3	229.8	229.5	236.0	240.8	242.4	244.2	245.4	246.2	248.6	251.0	251.7
Construction	1043.8	1045.4	943.5	849.6	845.6	907.9	980.4	1014.0	1030.4	1038.3	1052.9	1069.9	1073.0
Manufacturing Sector													
Food Products	474.1	488.6	515.4	523.7	519.1	526.0	535.9	542.1	548.3	553.8	559.7	565.5	570.0
Beverages and Tobacco Products	110.8	114.5	120.5	123.7	121.4	122.6	121.7	120.6	119.6	119.1	118.8	118.7	118.4
Textile Mills and Products	77.9	73.8	68.8	62.4	59.2	59.5	59.6	59.3	58.8	58.1	57.8	57.7	57.7
Apparel	32.4	33.6	32.7	31.2	25.2	24.2	24.3	23.9	23.2	22.1	21.2	20.4	19.2
Wood Products	101.8	97.3	88.5	77.3	78.1	85.4	91.9	94.9	96.5	97.3	99.6	101.7	102.0
Furniture and Related Products	77.2	78.4	75.1	67.7	69.6	73.9	77.9	79.4	80.1	81.0	81.7	82.4	83.2
Paper Products	153.7	151.5	147.3	147.0	146.9	151.0	153.5	154.6	155.1	155.8	157.0	158.3	159.4
Printing	85.6	87.7	87.3	86.5	87.5	88.2	87.8	87.9	88.0	87.8	87.7	87.4	86.9
Chemical Manufacturing	505.3	519.4	521.7	534.7	551.2	574.0	588.7	599.3	610.4	622.9	637.4	652.4	668.2
Bulk Chemicals	224.2	227.4	231.9	236.4	239.8	243.4	245.1	245.1	245.4	245.3	245.1	243.9	243.1
Inorganic	30.4	31.9	32.6	33.7	33.7	33.9	33.6	33.4	33.1	32.7	32.3	31.9	31.6
Organic	98.2	100.3	102.9	105.1	108.1	109.5	109.7	109.7	109.9	110.1	110.1	109.7	109.6
Resin, Synthetic Rubber, and Fibers	72.5	73.3	73.8	75.7	74.7	75.8	77.2	77.3	77.5	77.7	77.9	77.9	77.7
Agricultural Chemicals	23.1	22.0	22.6	22.0	23.3	24.2	24.5	24.7	24.9	24.9	24.8	24.4	24.2
Other Chemical Products	281.2	292.0	289.8	298.2	311.4	330.6	343.6	354.2	365.0	377.6	392.3	408.4	425.1
Petroleum and Coal Products	246.4	248.5	251.5	250.7	245.6	252.5	257.2	260.8	262.1	264.4	265.8	265.5	265.2
Petroleum Refineries	221.2	225.6	231.6	231.7	227.0	232.6	236.1	239.0	239.9	242.0	243.0	242.2	241.6
Other Petroleum and Coal Products	25.2	22.9	19.9	19.0	18.6	19.9	21.1	21.8	22.2	22.4	22.8	23.3	23.6
Plastics and Rubber Products	175.7	170.0	176.3	173.1	173.7	179.5	184.4	187.3	189.9	192.4	195.9	199.3	202.0
Leather and Leather Products	5.6	5.9	6.2	4.6	4.5	4.4	4.2	4.1	4.0	4.0	3.9	3.8	3.7
Stone, Clay, and Glass Products	99.6	96.8	93.0	89.5	92.8	99.5	105.0	107.9	110.0	111.8	114.0	116.1	117.2
Glass and Glass Products	22.5	21.9	21.8	21.7	22.3	23.1	24.1	25.0	26.0	26.9	27.9	28.9	29.8
Cement Manufacturing	8.5	8.4	8.4	8.0	7.9	8.2	8.6	8.7	8.8	8.8	8.9	9.0	9.0
Other Nonmetallic Mineral Products	68.6	66.5	62.9	59.8	62.6	68.2	72.3	74.2	75.3	76.1	77.2	78.2	78.4
Primary Metals Industry	147.8	148.2	144.6	142.3	144.8	147.8	153.1	155.7	157.9	160.1	163.6	167.5	169.5
Iron and Steel Mills and Products	73.5	72.6	69.7	67.7	69.2	71.1	73.5	74.6	75.6	76.4	77.7	79.7	81.0
Alumina and Aluminum Products	29.6	28.6	27.1	27.8	27.2	27.2	28.3	29.1	29.9	30.8	31.8	32.4	32.5
Other Primary Metal Products	44.7	47.1	47.8	46.8	48.3	49.6	51.3	52.1	52.3	52.9	54.2	55.3	56.1
Fabricated Metal Products	252.2	258.3	260.6	256.9	260.5	268.8	277.0	282.2	283.9	285.5	287.6	289.9	291.9
Machinery	283.1	299.5	304.1	305.7	318.1	323.6	329.3	338.0	344.9	351.9	360.2	368.1	374.7
Computers and Electronics	469.4	504.7	525.7	552.8	600.0	625.0	645.7	671.9	702.9	739.8	782.5	826.7	870.2
Transportation Equipment	667.5	664.4	656.7	643.2	673.3	700.3	749.1	768.5	765.2	758.5	762.9	769.6	768.1
Electrical Equipment	109.0	116.2	122.9	117.7	119.4	123.5	127.4	131.3	134.5	137.4	140.9	144.3	147.2
Miscellaneous Manufacturing	132.8	132.5	135.6	137.9	141.7	147.6	152.8	158.9	165.3	171.3	177.4	184.2	192.5
Total Industrial Value of Shipments	5732.4	5820.7	5781.0	5680.3	5781.9	5996.6	6223.3	6364.0	6454.7	6539.6	6658.9	6782.7	6874.4

Table 23. Industrial Sector Macroeconomic Indicators

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gross Domestic Product (billion 2000 dollars)	15261.2	15617.0	15984.4	16357.4	16743.0	17126.6	17528.1	17951.1	18381.9	18823.9	19272.2	19732.3	20218.5	2.4%
Nonfarm Employment (millions)	152.6	153.5	154.5	155.7	157.0	158.2	159.6	160.9	162.2	163.7	165.2	166.6	168.1	0.9%
Value of Shipments (billion 2000 dollars)														
Nonmanufacturing Sector														
Agriculture/Forestry/Fishing/Hunting	283.0	283.6	284.3	285.4	286.4	287.5	288.7	290.2	291.7	293.3	294.8	296.4	298.2	0.6%
Mining	251.5	251.0	252.5	253.6	253.8	252.6	252.5	251.5	252.1	252.1	250.3	248.6	247.9	0.4%
Construction	1077.6	1079.7	1082.6	1086.3	1091.4	1094.6	1104.5	1121.2	1137.0	1146.7	1149.2	1155.1	1168.5	0.5%
Manufacturing Sector														
Food Products	574.5	579.0	583.9	589.1	593.5	598.3	603.4	608.6	613.7	619.1	624.4	630.0	635.6	1.1%
Beverages and Tobacco Products	117.9	117.3	116.7	116.0	115.2	114.2	113.4	112.5	111.7	110.9	110.0	109.0	108.1	-0.2%
Textile Mills and Products	57.1	56.3	55.4	54.8	54.1	53.5	52.7	51.8	51.2	51.0	50.8	50.5	50.5	-1.6%
Apparel	18.0	16.8	15.8	15.1	14.2	13.5	12.8	12.2	11.7	11.3	10.9	10.5	10.0	-4.9%
Wood Products	101.4	100.1	99.6	99.5	98.9	98.2	98.5	99.7	100.8	101.2	100.8	100.9	101.9	0.2%
Furniture and Related Products	85.0	86.6	87.9	88.7	89.9	91.0	92.1	93.3	94.4	95.3	96.0	96.8	97.8	0.9%
Paper Products	161.1	162.8	164.6	166.4	168.0	169.5	171.0	172.5	173.8	175.1	176.1	177.0	177.9	0.7%
Printing	86.8	87.1	87.2	87.4	87.6	87.9	88.1	88.4	88.9	89.4	89.9	90.5	91.2	0.2%
Chemical Manufacturing	677.4	681.6	686.5	690.7	694.9	698.8	702.8	707.3	711.6	716.0	719.4	722.3	725.8	1.4%
Bulk Chemicals	241.5	239.0	237.3	235.5	233.9	232.2	230.6	229.3	227.9	226.6	225.0	223.2	221.6	-0.1%
Inorganic	31.2	30.7	30.3	30.0	29.6	29.2	28.8	28.4	28.0	27.6	27.1	26.7	26.2	-0.8%
Organic	109.1	108.3	107.8	107.3	106.9	106.5	106.2	106.0	105.8	105.7	105.4	105.0	104.7	0.2%
Resin, Synthetic Rubber, and Fibers	77.2	76.1	75.3	74.5	74.0	73.5	73.0	72.7	72.3	72.0	71.6	71.1	70.6	-0.2%
Agricultural Chemicals	24.0	23.9	23.9	23.8	23.4	23.1	22.6	22.2	21.8	21.4	21.0	20.9	20.0	-0.4%
Other Chemical Products	435.9	442.6	449.2	455.2	461.0	466.6	472.2	478.0	483.7	489.5	494.4	499.1	504.2	2.3%
Petroleum and Coal Products	266.0	265.8	265.9	265.2	264.8	264.9	265.4	267.1	268.1	270.2	271.6	273.1	274.9	0.4%
Petroleum Refineries	242.0	241.4	241.1	239.9	239.2	238.9	239.1	240.5	241.2	242.9	244.0	245.1	246.5	0.4%
Other Petroleum and Coal Products	24.0	24.4	24.9	25.3	25.7	26.0	26.3	26.6	26.9	27.3	27.7	28.0	28.3	0.9%
Plastics and Rubber Products	206.1	210.0	213.8	217.8	221.6	225.2	229.0	233.1	237.1	241.1	244.9	248.7	252.8	1.7%
Leather and Leather Products	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.9	2.8	2.7	2.6	-3.3%
Stone, Clay, and Glass Products	120.0	123.2	126.2	128.9	131.1	132.4	133.3	133.8	134.1	134.1	133.6	132.5	131.1	1.3%
Glass and Glass Products	30.7	31.8	32.8	33.9	34.9	35.6	36.2	36.6	37.0	37.2	37.3	37.2	37.1	2.2%
Cement Manufacturing	8.9	8.9	9.0	9.0	9.0	9.0	8.9	8.9	8.9	8.9	8.8	8.8	8.7	0.2%
Other Nonmetallic Mineral Products	80.3	82.5	84.4	86.1	87.2	87.8	88.2	88.3	88.2	88.0	87.4	86.5	85.3	1.0%
Primary Metals Industry	172.0	174.1	176.6	179.2	180.4	181.2	182.0	182.6	183.1	183.6	183.2	182.4	181.1	0.8%
Iron and Steel Mills and Products	82.3	83.3	84.2	85.4	86.0	86.5	86.9	87.1	87.1	87.0	86.4	85.5	84.4	0.6%
Alumina and Aluminum Products	32.7	33.1	33.7	34.2	34.2	34.3	34.4	34.4	34.7	34.8	35.0	35.1	34.9	0.8%
Other Primary Metal Products	57.0	57.7	58.6	59.6	60.1	60.4	60.8	61.1	61.4	61.7	61.8	61.8	61.8	1.1%
Fabricated Metal Products	292.6	293.8	294.2	293.9	293.5	293.8	293.7	293.2	293.3	293.5	292.8	291.8	291.2	0.5%
Machinery	380.2	386.2	390.2	393.2	397.4	401.1	404.3	407.5	411.6	415.8	420.9	424.2	428.7	1.5%
Computers and Electronics	906.8	939.4	975.1	1013.5	1052.9	1092.8	1132.0	1172.5	1212.6	1255.9	1300.4	1346.0	1391.0	4.3%
Transportation Equipment	769.5	770.8	776.1	783.5	787.3	799.1	807.8	817.5	825.5	828.3	830.3	832.1	840.1	1.0%
Electrical Equipment	151.9	155.2	157.7	160.1	162.3	164.0	165.6	167.3	169.2	171.5	173.5	175.7	177.7	1.8%
Miscellaneous Manufacturing	200.9	209.0	216.3	224.1	230.9	239.9	249.2	258.7	268.8	279.1	289.8	301.2	313.0	3.6%
Total Industrial Value of Shipments	6960.8	7032.8	7112.6	7195.7	7273.5	7357.2	7445.9	7545.6	7645.0	7737.3	7816.4	7898.0	7997.4	1.3%

Table 23. Industrial Sector Macroeconomic Indicators

Note: Totals may not equal sum of components due to independent rounding.

Source: 2006: Global Insight macroeconomic model CTL0806. Projections: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 24. Refining Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	221.17	225.58	231.57	231.72	227.00	232.62	236.11	239.03	239.92	242.00	243.02	242.16	241.60
Inputs to Distillation Units (million barrels per day)	15.82	15.93	15.81	15.90	15.75	16.20	16.37	16.59	16.61	16.65	16.72	16.64	16.61
Total Energy Consumption (trillion Btu) 1/													
Residual Fuel Oil	13.9	12.7	12.7	12.8	0.2	0.2	0.2	12.1	11.9	11.9	25.3	24.4	21.7
Distillate Fuel Oil	4.4	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases	15.0	9.6	9.6	9.7	41.9	34.8	38.1	36.1	34.6	34.5	33.9	38.0	37.4
Petroleum Coke	563.6	570.2	570.2	575.8	544.7	573.1	607.1	624.4	626.8	631.7	629.6	632.1	633.9
Still Gas	1635.2	1689.2	1689.2	1704.8	1564.9	1721.5	1740.2	1763.3	1836.5	1850.1	1866.7	1852.9	1847.5
Other Petroleum 2/	30.9	36.7	36.7	37.0	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
Petroleum Subtotal	2263.0	2320.9	2320.9	2342.6	2154.2	2332.2	2388.1	2438.4	2512.3	2530.7	2558.2	2550.0	2543.1
Natural Gas	1052.5	1104.9	1158.6	1268.3	1545.6	1506.0	1503.0	1487.8	1446.1	1458.6	1463.8	1455.7	1467.0
Steam Coal 3/	62.4	62.4	62.4	63.2	59.6	59.6	181.0	207.1	157.2	152.3	188.4	239.4	305.6
Biofuels Heat and Coproducts	241.3	301.4	398.0	694.6	539.1	670.6	708.7	739.1	846.8	919.3	999.5	1051.8	1129.0
Purchased Electricity	133.6	146.6	152.1	163.8	141.9	153.9	159.8	163.7	167.3	170.1	173.6	172.1	173.1
Total	3752.9	3936.2	4092.0	4532.5	4440.4	4722.3	4940.5	5036.1	5129.6	5231.0	5383.4	5469.1	5617.8
Refinery Only Energy Consumption 1/													
Residual Fuel Oil	13.88	12.69	12.69	12.81	0.23	0.23	0.23	12.08	11.87	11.90	25.32	24.43	21.71
Distillate Fuel Oil	4.40	2.53	2.53	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases	15.04	9.57	9.57	9.67	41.87	34.82	38.12	36.12	34.63	34.46	33.93	37.97	37.43
Petroleum Coke	545.65	556.15	556.15	561.79	513.91	542.44	576.51	593.73	596.23	601.32	599.17	601.79	603.77
Still Gas	1507.80	1572.73	1572.73	1588.24	1507.15	1664.05	1682.89	1705.80	1779.23	1793.01	1809.60	1796.11	1790.95
Other Petroleum 2/	30.89	36.67	36.67	37.04	2.48	2.48	2.48	2.57	2.56	2.57	2.60	2.58	2.56
Petroleum Subtotal	2117.65	2190.34	2190.34	2212.10	2065.64	2244.03	2300.22	2350.29	2424.52	2443.26	2470.61	2462.88	2456.42
Natural Gas	705.45	720.61	720.61	727.75	942.83	828.41	806.01	772.36	718.87	720.91	694.19	674.78	668.90
Steam Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Purchased Electricity	124.86	134.27	134.27	135.60	109.49	113.95	117.81	119.89	122.05	123.68	123.73	120.93	119.86
Total	3189.27	3346.65	3443.23	3770.02	3657.10	3856.99	3932.75	3981.60	4112.25	4207.12	4288.04	4310.41	4374.20
Carbon Dioxide Emissions 4/ (million metric tons)	246.5	255.0	258.8	268.1	264.9	276.9	293.6	299.7	298.3	300.3	306.4	309.9	316.5
Energy Consumption per Unit of Refinery Input (thousand Btu per barrel)													
Residual Fuel Oil	2.4	2.2	2.2	2.2	0.0	0.0	0.0	2.0	2.0	2.0	4.1	4.0	3.6
Distillate Fuel Oil	0.8	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases	2.6	1.6	1.7	1.7	7.3	5.9	6.4	6.0	5.7	5.7	5.6	6.3	6.2
Petroleum Coke	94.5	95.6	96.4	96.8	89.4	91.7	96.5	98.0	98.3	98.9	98.2	99.1	99.6
Still Gas	261.2	270.5	272.6	273.7	262.2	281.4	281.7	281.6	293.4	295.0	296.6	295.8	295.5
Other Petroleum 2/	5.4	6.3	6.4	6.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Petroleum Subtotal	366.9	376.7	379.6	381.3	359.3	379.5	385.0	388.0	399.9	402.0	404.9	405.6	405.3
Natural Gas	122.2	123.9	124.9	125.4	164.0	140.1	134.9	127.5	118.6	118.6	113.8	111.1	110.4
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	21.6	23.1	23.3	23.4	19.0	19.3	19.7	19.8	20.1	20.4	20.3	19.9	19.8
Total	510.7	523.7	527.8	530.1	542.3	538.9	539.7	535.4	538.5	541.0	539.0	536.6	535.4

Table 24. Refining Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Combined Heat and Power													
Generating Capacity (gigawatts)													
Petroleum	0.09	0.22	0.27	0.27	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Natural Gas	3.08	2.72	2.65	2.65	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
Coal	0.19	0.10	0.12	0.12	0.00	0.00	0.82	0.99	0.66	0.62	0.87	1.21	1.66
Other 5/	0.90	0.64	0.35	0.35	0.61	0.64	0.65	0.68	1.29	1.66	1.84	2.03	2.26
Total	4.26	3.67	3.40	3.40	4.44	4.47	5.30	5.50	5.77	6.11	6.54	7.06	7.75
Net Generation (billion kilowatthours)													
Petroleum	1.14	0.76	0.76	0.76	2.10	2.10	2.10	2.11	2.11	2.11	2.12	2.11	2.11
Natural Gas	14.20	15.26	15.26	15.26	20.24	20.21	20.19	20.32	20.30	20.29	20.36	20.33	20.28
Coal	0.33	0.59	0.59	0.59	0.00	0.00	6.08	7.39	4.89	4.64	6.45	9.01	12.32
Other 5/	4.51	4.76	4.76	4.76	3.95	4.16	4.27	4.54	9.06	11.83	13.24	14.65	16.47
Total	20.18	21.36	21.36	21.36	26.29	26.47	32.65	34.36	36.36	38.87	42.18	46.09	51.18
Disposition													
Sales to the Grid	6.30	7.81	7.81	7.81	9.31	9.51	11.50	12.03	12.72	13.58	14.74	16.09	17.98
Generation for Own Use	13.87	13.55	13.55	13.55	16.99	16.96	21.15	22.33	23.64	25.29	27.44	30.00	33.20
Energy Input (trillion Btu)													
Petroleum	18	14	14	14	31	31	31	31	31	30	30	30	30
Natural Gas	244	246	246	246	296	295	294	295	294	293	293	292	290
Coal	1	1	1	1	0	0	121	148	98	93	129	180	246
Other 5/	127	117	117	117	58	57	57	65	154	195	227	270	324
Total	390	377	377	377	385	383	503	538	576	611	679	771	891
Energy Consumed at Ethanol Plants (trillion Btu)													
Natural Gas	103.4	138.3	192.0	294.5	306.2	382.5	403.0	420.3	433.4	444.8	476.5	489.3	508.0
Coal	62.4	62.4	62.4	62.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
Electricity	8.8	12.3	17.8	28.2	32.4	40.0	42.0	43.8	45.2	46.5	49.9	51.2	53.2
Total	174.6	213.0	272.2	385.2	398.2	482.0	504.5	523.7	538.1	550.8	585.9	600.1	620.8

Table 24. Refining Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	241.98	241.37	241.05	239.92	239.15	238.89	239.14	240.47	241.20	242.87	243.95	245.15	246.53	0.4%
Inputs to Distillation Units (million barrels per day)	16.61	16.60	16.62	16.62	16.64	16.65	16.71	16.77	16.83	16.99	17.08	17.16	17.33	0.4%
Total Energy Consumption (trillion Btu) 1/														
Residual Fuel Oil	15.3	11.8	11.7	11.7	11.8	11.9	12.1	12.3	12.3	12.8	12.9	12.9	13.0	0.1%
Distillate Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Liquefied Petroleum Gases	35.7	37.8	30.4	17.5	13.8	7.8	0.2	0.0	3.9	0.4	2.0	3.7	4.1	-3.4%
Petroleum Coke	641.5	645.9	654.4	665.5	670.7	673.7	676.1	675.0	674.3	684.9	688.0	690.6	699.9	0.9%
Still Gas	1849.4	1847.0	1846.6	1842.1	1849.5	1839.3	1852.9	1868.1	1877.7	1911.1	1932.2	1942.6	1983.3	0.7%
Other Petroleum 2/	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.7	2.5	2.8	2.5	2.2	2.8	-10.1%
Petroleum Subtotal	2544.4	2545.0	2545.6	2539.3	2548.3	2535.2	2544.0	2558.1	2570.9	2612.0	2637.6	2651.9	2703.2	0.6%
Natural Gas	1485.8	1481.5	1466.0	1486.6	1487.4	1496.5	1493.2	1490.1	1495.0	1489.7	1486.6	1481.5	1466.0	1.2%
Steam Coal 3/	391.1	396.9	403.1	427.1	427.1	452.6	452.9	451.7	482.9	507.3	570.7	612.9	612.8	10.0%
Biofuels Heat and Coproducts	1201.0	1319.4	1490.3	1804.0	2136.3	2162.0	2215.9	2281.6	2316.2	2316.5	2317.4	2306.4	2310.7	8.9%
Purchased Electricity	175.4	173.6	169.3	168.6	167.1	166.2	165.5	165.6	167.7	168.5	170.5	171.5	174.7	0.7%
Total	5797.7	5916.4	6074.4	6425.7	6766.2	6812.5	6871.5	6947.1	7032.5	7094.0	7182.7	7224.2	7267.4	2.6%
Refinery Only Energy Consumption 1/														
Residual Fuel Oil	15.30	11.75	11.72	11.75	11.80	11.88	12.09	12.30	12.34	12.79	12.88	12.90	13.05	0.1%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases	35.72	37.83	30.43	17.47	13.80	7.81	0.19	0.00	3.94	0.41	2.01	3.65	4.14	-3.4%
Petroleum Coke	609.59	610.29	611.90	617.97	616.41	616.72	616.44	615.26	615.45	623.36	627.41	630.01	639.39	0.6%
Still Gas	1793.19	1790.97	1790.75	1786.34	1793.85	1783.74	1797.36	1812.61	1822.41	1855.97	1877.20	1887.80	1928.66	0.9%
Other Petroleum 2/	2.54	2.53	2.53	2.53	2.55	2.56	2.61	2.65	2.54	2.76	2.47	2.21	2.81	-10.1%
Petroleum Subtotal	2456.33	2453.37	2447.32	2436.07	2438.40	2422.71	2428.69	2442.82	2456.68	2495.29	2521.97	2536.56	2588.06	0.7%
Natural Gas	673.92	666.80	660.43	669.08	669.51	678.59	678.43	681.02	687.52	682.59	679.90	682.97	665.38	-0.3%
Steam Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Purchased Electricity	120.55	118.37	115.02	113.07	111.54	110.64	110.36	111.01	113.13	113.97	115.88	117.63	120.53	-0.4%
Total	4451.77	4557.93	4713.07	5022.25	5355.76	5373.98	5433.36	5516.42	5573.52	5608.36	5635.14	5643.56	5684.67	2.2%
Carbon Dioxide Emissions 4/ (million metric tons)	326.1	326.2	325.3	328.5	328.9	330.9	331.3	332.0	336.3	341.5	349.4	354.3	357.7	1.4%
Energy Consumption per Unit of Refinery Input (thousand Btu per barrel)														
Residual Fuel Oil	2.5	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	-0.2%
Distillate Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Liquefied Petroleum Gases	5.9	6.2	5.0	2.9	2.3	1.3	0.0	0.0	0.6	0.1	0.3	0.6	0.7	-3.8%
Petroleum Coke	100.5	100.7	100.9	101.9	101.5	101.5	101.1	100.5	100.2	100.5	100.6	100.6	101.1	0.2%
Still Gas	295.8	295.5	295.2	294.5	295.4	293.4	294.7	296.2	296.7	299.2	301.1	301.4	304.9	0.5%
Other Petroleum 2/	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-10.5%
Petroleum Subtotal	405.2	404.8	403.4	401.6	401.5	398.5	398.2	399.2	399.9	402.3	404.5	405.0	409.2	0.3%
Natural Gas	111.2	110.0	108.9	110.3	110.2	111.6	111.2	111.3	111.9	110.0	109.0	109.0	105.2	-0.7%
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Purchased Electricity	19.9	19.5	19.0	18.6	18.4	18.2	18.1	18.1	18.4	18.4	18.6	18.8	19.1	-0.8%
Total	536.2	534.4	531.2	530.5	530.1	528.4	527.5	528.6	530.2	530.7	532.1	532.8	533.5	0.1%

Table 24. Refining Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Combined Heat and Power														
Generating Capacity (gigawatts)														
Petroleum	0.84	0.84	0.84	1.10	1.10	1.10	1.04	1.04	1.04	1.07	1.07	1.07	1.07	6.9%
Natural Gas	3.19	3.19	3.19	3.22	3.22	3.22	3.21	3.21	3.21	3.21	3.21	3.21	3.21	0.7%
Coal	2.23	2.27	2.31	2.47	2.47	2.64	2.65	2.64	2.85	3.01	3.44	3.72	3.72	16.5%
Other 5/	2.52	2.93	3.53	4.39	5.40	5.70	6.15	6.67	6.93	6.93	6.93	6.93	6.93	10.4%
Total	8.77	9.22	9.86	11.18	12.20	12.67	13.05	13.56	14.03	14.22	14.65	14.93	14.93	6.0%
Net Generation (billion kilowatthours)														
Petroleum	2.32	2.76	3.56	4.15	4.93	5.25	5.57	5.59	5.49	5.81	5.71	5.71	5.71	8.8%
Natural Gas	20.27	20.30	20.38	20.47	20.59	20.66	20.75	20.78	20.77	20.80	20.79	20.79	20.79	1.3%
Coal	16.60	16.90	17.21	18.41	18.41	19.69	19.71	19.64	21.21	22.43	25.61	27.72	27.72	17.4%
Other 5/	18.42	21.74	26.58	33.74	42.15	44.25	47.58	51.48	53.38	53.38	53.38	53.38	53.38	10.6%
Total	57.61	61.70	67.73	76.77	86.08	89.85	93.61	97.49	100.85	102.42	105.49	107.61	107.61	7.0%
Disposition														
Sales to the Grid	20.16	22.34	25.87	31.81	38.41	38.84	39.82	41.01	42.08	42.46	43.44	44.09	44.09	7.5%
Generation for Own Use	37.45	39.36	41.86	44.96	47.67	51.01	53.79	56.48	58.77	59.97	62.06	63.52	63.52	6.6%
Energy Input (trillion Btu)														
Petroleum	32	36	42	48	54	57	60	60	59	62	61	61	60	6.3%
Natural Gas	289	288	288	288	288	288	289	288	287	287	286	285	284	0.6%
Coal	332	337	344	368	368	393	393	392	423	448	511	553	553	31.6%
Other 5/	345	343	366	525	555	563	581	654	718	716	710	708	717	7.9%
Total	997	1005	1040	1228	1265	1302	1323	1394	1487	1512	1568	1606	1615	6.2%
Energy Consumed at Ethanol Plants (trillion Btu)														
Natural Gas	523.1	526.5	517.6	529.5	529.5	529.5	526.1	520.9	520.2	520.5	520.9	513.6	516.6	5.6%
Coal	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	-0.2%
Electricity	54.8	55.2	54.3	55.5	55.5	55.5	55.2	54.6	54.5	54.6	54.6	53.9	54.2	6.4%
Total	637.5	641.3	631.4	644.6	644.6	644.6	640.8	635.1	634.3	634.6	635.1	627.1	630.3	4.6%

Table 24. Refining Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power and consumption at ethanol plants.

2/ Includes lubricants and miscellaneous petroleum products.

3/ Where coal-to-liquids (CTL) technology is adopted in the forecast, the plants are assumed to produce oil products and to generate electricity. A portion of the coal use is attributed to feedstock use to produce the liquids. The feedstock portion is assumed to be equal to the Btu content of the liquids produced. The rest of the coal used in CTL plants is accounted for in industrial steam coal consumption, a portion of which is reflected in energy used for end-use sector combined heat and power.

4/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

5/ May include wood and other biomass, waste heat, municipal solid waste, and renewable sources.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). 2005 and 2006 coal and natural gas consumption at ethanol plants: Carbon Dioxide Emissions from the Production and Combustion of Fuel Ethanol from Corn," Marland, G. and A.F. Turhollow, 1991. 2005 and 2006 electricity consumption at ethanol plants: U.S. Department of Agriculture, 1998 Ethanol Cost-of-Production Survey, Agricultural Economic Report Number 808. Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 25. Food Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	474.05	488.64	515.38	523.65	519.08	526.05	535.86	542.10	548.29	553.80	559.75	565.53	570.01
Energy Consumption (trillion Btu) 1/													
Residual Fuel Oil	5.2	5.8	5.5	3.2	3.6	3.5	3.5	3.8	3.9	3.8	4.0	4.2	4.2
Distillate Fuel Oil	19.2	18.3	18.3	15.3	15.7	15.5	15.6	16.4	16.5	16.5	16.8	17.2	17.3
Liquefied Petroleum Gases	5.2	4.8	4.8	4.3	4.4	4.4	4.4	4.6	4.7	4.7	4.8	4.9	4.9
Other Petroleum 2/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	29.5	28.8	28.6	22.8	23.7	23.4	23.5	24.9	25.0	25.0	25.6	26.2	26.4
Natural Gas	572.0	578.3	600.7	610.8	599.4	603.7	610.8	612.8	616.2	619.3	622.4	625.4	626.9
Steam Coal	185.8	191.9	202.5	202.5	201.8	201.7	201.7	201.6	201.5	201.3	201.2	201.0	200.9
Renewables	46.9	48.7	51.6	52.7	52.6	53.6	54.9	55.9	56.9	57.8	58.7	59.7	60.5
Purchased Electricity	237.4	244.0	254.2	256.7	254.6	257.1	260.0	261.2	262.5	263.7	264.8	265.9	266.3
Total	1071.7	1091.7	1137.6	1145.5	1132.1	1139.6	1151.0	1156.4	1162.1	1167.1	1172.7	1178.2	1181.1
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Residual Fuel Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Distillate Fuel Oil	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gases	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Other Petroleum 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Subtotal	0.06	0.06	0.06	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05
Natural Gas	1.21	1.18	1.17	1.17	1.15	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.10
Steam Coal	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35
Renewables	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Purchased Electricity	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47
Total	2.26	2.23	2.21	2.19	2.18	2.17	2.15	2.13	2.12	2.11	2.10	2.08	2.07
Carbon Dioxide Emissions 3/ (million metric tons)	95.5	96.6	100.5	100.5	99.4	99.7	100.6	100.9	101.3	101.6	101.9	102.2	102.4
Combined Heat and Power 4/													
Generating Capacity (gigawatts)													
Petroleum	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.44	0.42	0.45	0.48	0.51	0.54	0.57	0.61	0.64	0.68	0.71	0.75	0.79
Coal	0.96	0.95	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Other 5/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	1.49	1.46	1.57	1.60	1.63	1.66	1.69	1.72	1.76	1.79	1.83	1.87	1.90
Net Generation (billion kilowatthours)													
Petroleum	0.16	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Natural Gas	1.45	1.39	1.60	1.83	2.05	2.29	2.53	2.77	3.03	3.29	3.56	3.83	4.12
Coal	4.05	4.22	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52
Other 5/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Total	5.81	5.83	6.34	6.57	6.79	7.03	7.27	7.51	7.77	8.03	8.30	8.57	8.86
Disposition													
Sales to the Grid	0.19	0.19	0.25	0.30	0.36	0.43	0.49	0.55	0.62	0.69	0.76	0.83	0.91
Generation for Own Use	5.62	5.64	6.10	6.26	6.43	6.60	6.78	6.96	7.15	7.34	7.54	7.74	7.95

Table 25. Food Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	574.55	578.95	583.93	589.07	593.50	598.33	603.45	608.56	613.67	619.12	624.42	629.97	635.59	1.1%
Energy Consumption (trillion Btu) 1/														
Residual Fuel Oil	4.1	3.9	3.7	3.4	3.5	3.4	3.4	3.4	3.3	3.4	3.4	3.5	3.5	-2.1%
Distillate Fuel Oil	17.3	17.1	16.8	16.5	16.6	16.6	16.6	16.6	16.6	16.8	17.0	17.2	17.3	-0.2%
Liquefied Petroleum Gases	4.9	4.9	4.9	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.0	0.2%
Other Petroleum 2/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	26.3	26.0	25.3	24.8	24.9	24.8	24.9	24.9	24.8	25.1	25.4	25.6	25.7	-0.5%
Natural Gas	629.6	634.1	640.7	647.6	651.8	655.8	658.5	661.1	664.1	667.1	670.5	674.3	678.5	0.7%
Steam Coal	200.8	200.8	200.8	200.8	200.8	200.9	200.7	200.6	200.5	200.5	200.5	200.6	200.6	0.2%
Renewables	61.4	62.2	63.1	64.1	64.9	65.8	66.8	67.8	68.7	69.7	70.8	71.8	72.9	1.7%
Purchased Electricity	266.6	266.7	267.1	267.5	267.3	267.3	267.6	267.8	268.2	268.6	268.8	269.1	269.6	0.4%
Total	1184.7	1189.8	1197.0	1204.8	1209.8	1214.7	1218.6	1222.2	1226.3	1231.0	1235.9	1241.4	1247.3	0.6%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Residual Fuel Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-3.2%
Distillate Fuel Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.3%
Liquefied Petroleum Gases	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Other Petroleum 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Petroleum Subtotal	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.6%
Natural Gas	1.10	1.10	1.10	1.10	1.10	1.10	1.09	1.09	1.08	1.08	1.07	1.07	1.07	-0.4%
Steam Coal	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.32	-0.9%
Renewables	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.6%
Purchased Electricity	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.42	-0.7%
Total	2.06	2.06	2.05	2.05	2.04	2.03	2.02	2.01	2.00	1.99	1.98	1.97	1.96	-0.5%
Carbon Dioxide Emissions 3/ (million metric tons)	102.6	102.7	102.9	103.5	103.7	103.9	104.2	104.4	104.6	104.9	105.2	105.6	106.2	0.4%
Combined Heat and Power 4/														
Generating Capacity (gigawatts)														
Petroleum	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Natural Gas	0.83	0.86	0.90	0.94	0.98	1.01	1.05	1.08	1.11	1.14	1.17	1.20	1.23	4.6%
Coal	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	0.3%
Other 5/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Total	1.94	1.98	2.02	2.06	2.10	2.13	2.17	2.20	2.23	2.26	2.29	2.32	2.35	2.0%
Net Generation (billion kilowatthours)														
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Natural Gas	4.40	4.69	4.97	5.26	5.53	5.79	6.05	6.29	6.52	6.74	6.96	7.18	7.40	7.2%
Coal	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	0.3%
Other 5/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Total	9.14	9.43	9.71	10.00	10.27	10.53	10.79	11.03	11.26	11.48	11.70	11.92	12.15	3.1%
Disposition														
Sales to the Grid	0.98	1.06	1.13	1.21	1.28	1.35	1.42	1.48	1.54	1.60	1.66	1.71	1.77	9.8%
Generation for Own Use	8.16	8.37	8.58	8.79	8.99	9.19	9.37	9.55	9.72	9.88	10.04	10.21	10.37	2.6%

Table 25. Food Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 26. Paper Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	153.66	151.48	147.28	146.99	146.86	150.96	153.47	154.58	155.06	155.81	156.98	158.27	159.44
Energy Consumption (trillion Btu) 1/													
Residual Fuel Oil	111.1	94.6	104.2	103.2	102.8	103.2	103.3	103.3	103.1	102.9	102.9	102.9	102.9
Distillate Fuel Oil	13.9	11.8	13.3	13.0	13.1	13.1	13.2	13.2	13.2	13.2	13.3	13.3	13.3
Liquefied Petroleum Gases	4.3	3.9	3.8	3.7	3.7	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9
Petroleum Coke	9.9	7.9	9.6	9.4	9.4	9.4	9.3	9.4	9.4	9.4	9.4	9.4	9.4
Other Petroleum	12.1	9.7	11.7	11.5	11.5	11.4	11.4	11.5	11.5	11.5	11.5	11.5	11.5
Petroleum Subtotal	151.4	127.9	142.5	140.8	140.5	140.9	141.0	141.2	141.0	140.8	140.8	140.9	140.8
Natural Gas	453.7	430.8	424.5	422.9	420.6	425.4	428.4	429.3	430.0	431.2	432.9	434.8	436.5
Steam Coal	265.7	266.7	266.0	265.5	265.0	264.9	264.8	264.5	263.9	263.4	263.0	262.8	262.6
Renewables	1153.7	1145.8	1120.8	1122.0	1122.9	1152.7	1172.1	1182.3	1188.5	1196.6	1208.0	1220.4	1232.2
Purchased Electricity	215.2	211.3	197.4	192.5	188.1	190.1	190.6	189.1	186.9	185.1	183.7	182.4	181.0
Total	2239.7	2182.5	2151.2	2143.8	2137.0	2174.1	2196.8	2206.4	2210.2	2217.1	2228.5	2241.3	2253.2
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Residual Fuel Oil	0.72	0.62	0.71	0.70	0.70	0.68	0.67	0.67	0.66	0.66	0.66	0.65	0.65
Distillate Fuel Oil	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08
Liquefied Petroleum Gases	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Petroleum Coke	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Other Petroleum	0.08	0.06	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Petroleum Subtotal	0.99	0.84	0.97	0.96	0.96	0.93	0.92	0.91	0.91	0.90	0.90	0.89	0.88
Natural Gas	2.95	2.84	2.88	2.88	2.86	2.82	2.79	2.78	2.77	2.77	2.76	2.75	2.74
Steam Coal	1.73	1.76	1.81	1.81	1.80	1.76	1.73	1.71	1.70	1.69	1.68	1.66	1.65
Renewables	7.51	7.56	7.61	7.63	7.65	7.64	7.64	7.65	7.66	7.68	7.70	7.71	7.73
Purchased Electricity	1.40	1.39	1.34	1.31	1.28	1.26	1.24	1.22	1.21	1.19	1.17	1.15	1.14
Total	14.58	14.41	14.61	14.58	14.55	14.40	14.31	14.27	14.25	14.23	14.20	14.16	14.13
Carbon Dioxide Emissions 2/ (million metric tons)	102.2	97.6	95.5	94.0	92.9	93.2	93.5	93.2	92.7	92.4	92.1	91.9	91.7
Combined Heat and Power 4/													
Generating Capacity (gigawatts)													
Petroleum	0.47	0.47	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Natural Gas	1.63	1.56	1.60	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99
Coal	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
Other 5/	4.71	4.64	4.64	4.65	4.66	4.84	4.96	5.02	5.06	5.11	5.18	5.26	5.33
Total	7.93	7.78	7.88	7.92	7.96	8.19	8.35	8.45	8.53	8.62	8.73	8.85	8.97
Net Generation (billion kilowatthours)													
Petroleum	3.41	2.76	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
Natural Gas	7.18	6.69	6.96	7.22	7.47	7.77	8.07	8.38	8.69	9.00	9.31	9.64	9.98
Coal	7.08	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01
Other 5/	28.79	29.08	29.08	29.15	29.20	30.27	30.97	31.34	31.57	31.86	32.27	32.72	33.14
Total	46.45	45.54	46.28	46.61	46.91	48.28	49.28	49.96	50.50	51.10	51.82	52.60	53.36
Disposition													
Sales to the Grid	2.21	2.10	2.15	2.21	2.27	2.54	2.73	2.86	2.96	3.08	3.22	3.37	3.51
Generation for Own Use	44.24	43.44	44.13	44.40	44.64	45.74	46.55	47.10	47.53	48.02	48.60	49.23	49.85

Table 26. Paper Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	161.10	162.85	164.61	166.37	168.01	169.53	171.01	172.46	173.79	175.09	176.12	176.97	177.91	0.7%
Energy Consumption (trillion Btu) 1/														
Residual Fuel Oil	102.9	103.0	103.1	103.1	103.3	103.4	103.5	103.7	103.9	104.1	104.2	104.3	104.4	0.4%
Distillate Fuel Oil	13.3	13.3	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	0.5%
Liquefied Petroleum Gases	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	-0.2%
Petroleum Coke	9.4	9.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.4	9.4	9.4	9.4	0.7%
Other Petroleum	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	0.7%
Petroleum Subtotal	140.9	140.9	140.9	141.0	141.1	141.2	141.4	141.6	141.8	142.0	142.1	142.2	142.3	0.4%
Natural Gas	439.4	443.3	448.2	453.4	458.0	462.3	465.8	469.3	472.9	476.4	479.4	482.4	485.7	0.5%
Steam Coal	262.5	262.6	262.7	262.7	262.8	262.9	262.8	262.8	262.8	262.8	262.8	262.8	262.8	-0.1%
Renewables	1247.6	1263.9	1280.5	1297.4	1313.6	1329.2	1344.7	1360.1	1375.0	1389.7	1402.5	1414.1	1426.5	0.9%
Purchased Electricity	180.3	179.6	178.9	178.4	178.1	177.8	177.6	177.4	177.1	176.9	176.2	175.4	174.7	-0.8%
Total	2270.7	2290.3	2311.3	2333.0	2353.5	2373.4	2392.4	2411.2	2429.5	2447.7	2463.0	2476.8	2492.1	0.6%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Residual Fuel Oil	0.64	0.63	0.63	0.62	0.61	0.61	0.61	0.60	0.60	0.59	0.59	0.59	0.59	-0.3%
Distillate Fuel Oil	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	-0.2%
Liquefied Petroleum Gases	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.8%
Petroleum Coke	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Other Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.0%
Petroleum Subtotal	0.87	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.82	0.81	0.81	0.80	0.80	-0.2%
Natural Gas	2.73	2.72	2.72	2.73	2.73	2.73	2.72	2.72	2.72	2.72	2.72	2.73	2.73	-0.2%
Steam Coal	1.63	1.61	1.60	1.58	1.56	1.55	1.54	1.52	1.51	1.50	1.49	1.48	1.48	-0.7%
Renewables	7.74	7.76	7.78	7.80	7.82	7.84	7.86	7.89	7.91	7.94	7.96	7.99	8.02	0.2%
Purchased Electricity	1.12	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	-1.5%
Total	14.10	14.06	14.04	14.02	14.01	14.00	13.99	13.98	13.98	13.98	13.98	14.00	14.01	-0.1%
Carbon Dioxide Emissions 2/ (million metric tons)	91.7	91.7	91.8	92.1	92.3	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.7	-0.2%
Combined Heat and Power 4/														
Generating Capacity (gigawatts)														
Petroleum	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.5%
Natural Gas	2.04	2.09	2.14	2.19	2.25	2.30	2.36	2.41	2.46	2.50	2.55	2.60	2.65	2.2%
Coal	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	0.0%
Other 5/	5.43	5.53	5.63	5.74	5.84	5.93	6.03	6.12	6.21	6.30	6.38	6.46	6.54	1.4%
Total	9.11	9.26	9.42	9.57	9.73	9.88	10.03	10.17	10.31	10.45	10.58	10.70	10.83	1.4%
Net Generation (billion kilowatthours)														
Petroleum	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	0.7%
Natural Gas	10.33	10.72	11.12	11.54	11.97	12.38	12.78	13.16	13.55	13.91	14.28	14.65	15.04	3.4%
Coal	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	0.0%
Other 5/	33.70	34.29	34.88	35.49	36.07	36.64	37.19	37.75	38.28	38.81	39.28	39.71	40.17	1.4%
Total	54.27	55.24	56.24	57.27	58.28	59.25	60.21	61.15	62.07	62.97	63.80	64.60	65.45	1.5%
Disposition														
Sales to the Grid	3.69	3.88	4.07	4.27	4.46	4.65	4.83	5.02	5.19	5.37	5.53	5.68	5.84	4.4%
Generation for Own Use	50.58	51.36	52.17	53.00	53.82	54.60	55.38	56.14	56.88	57.60	58.28	58.92	59.60	1.3%

Table 26. Paper Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 27. Bulk Chemical Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	224.15	227.39	231.85	236.44	239.83	243.39	245.07	245.15	245.41	245.33	245.08	243.94	243.11
Energy Consumption (trillion Btu) 1/													
Heat and Power													
Residual Fuel Oil	85.7	85.1	81.4	68.0	72.0	70.3	68.0	68.3	66.9	64.5	64.0	63.5	62.5
Distillate Fuel Oil	6.0	6.0	5.8	5.2	5.5	5.5	5.4	5.4	5.3	5.2	5.2	5.2	5.1
Liquefied Petroleum Gases	44.2	44.4	45.1	45.5	46.6	46.9	46.8	46.5	46.3	46.2	46.0	45.6	45.4
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Petroleum 2/	326.0	325.6	307.4	233.3	251.9	244.5	235.2	239.0	233.0	222.6	221.4	220.2	215.5
Petroleum Subtotal	461.8	461.1	439.7	352.0	376.0	367.3	355.4	359.3	351.6	338.5	336.6	334.5	328.4
Natural Gas	1549.7	1535.9	1576.9	1656.3	1626.1	1622.8	1613.0	1582.7	1566.9	1555.6	1534.9	1512.3	1497.1
Steam Coal	216.0	212.7	211.5	211.3	210.9	210.3	209.5	208.5	207.6	206.7	205.7	204.6	203.6
Purchased Electricity	517.1	526.7	528.7	535.9	537.8	541.0	536.4	527.9	520.1	511.7	503.5	493.4	484.5
Total Heat and Power	2744.7	2736.3	2756.7	2755.6	2750.7	2741.4	2714.2	2678.4	2646.2	2612.5	2580.6	2544.7	2513.6
Feedstock													
Liquefied Petroleum Gases	2197.5	2181.4	2176.7	2187.6	2166.6	2153.3	2134.1	2101.8	2073.0	2045.4	2019.6	1989.4	1962.0
Petrochemical Feedstocks	1330.0	1344.2	1356.8	1380.0	1377.8	1388.9	1396.1	1390.1	1385.9	1381.4	1377.3	1368.7	1359.9
Natural Gas	592.5	565.4	560.6	539.6	541.3	535.7	532.0	525.7	519.5	512.4	503.9	492.6	483.6
Total Feedstocks	4120.0	4091.0	4094.1	4107.2	4085.7	4077.8	4062.2	4017.6	3978.4	3939.2	3900.7	3850.7	3805.5
Total	6864.6	6827.3	6850.8	6862.7	6836.4	6819.2	6776.4	6696.0	6624.6	6551.7	6481.4	6395.4	6319.1
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Heat and Power													
Residual Fuel Oil	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Distillate Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Petroleum	1.5	1.4	1.3	1.0	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9
Petroleum Subtotal	2.1	2.0	1.9	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4
Natural Gas	6.9	6.8	6.8	7.0	6.8	6.7	6.6	6.5	6.4	6.3	6.3	6.2	6.2
Steam Coal	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8
Purchased Electricity	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0
Total Heat and Power	12.2	12.0	11.9	11.7	11.5	11.3	11.1	10.9	10.8	10.6	10.5	10.4	10.3
Feedstock													
Liquefied Petroleum Gases	9.8	9.6	9.4	9.3	9.0	8.8	8.7	8.6	8.4	8.3	8.2	8.2	8.1
Petrochemical Feedstocks	5.9	5.9	5.9	5.8	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6
Natural Gas	2.6	2.5	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0
Total Feedstocks	18.4	18.0	17.7	17.4	17.0	16.8	16.6	16.4	16.2	16.1	15.9	15.8	15.7
Total	30.6	30.0	29.5	29.0	28.5	28.0	27.7	27.3	27.0	26.7	26.4	26.2	26.0

Table 27. Bulk Chemical Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Carbon Dioxide Emissions 3/ (million metric tons)	314.9	312.9	313.3	311.4	311.5	310.2	307.8	303.9	300.3	296.4	292.7	288.2	284.5
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Natural Gas	7.34	7.22	7.56	7.65	7.75	7.85	7.96	8.07	8.17	8.28	8.38	8.49	8.59
Coal	0.51	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Other 5/	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Total	8.87	8.69	9.03	9.12	9.22	9.33	9.43	9.54	9.64	9.75	9.85	9.96	10.06
Net Generation (billion kilowatthours)													
Petroleum	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Natural Gas	38.40	38.20	40.65	41.34	42.08	42.88	43.69	44.51	45.33	46.13	46.94	47.72	48.48
Coal	2.67	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Other 5/	7.73	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63
Total	48.98	48.48	50.92	51.62	52.35	53.16	53.96	54.79	55.61	56.41	57.21	58.00	58.76
Disposition													
Sales to the Grid	8.22	8.22	8.73	8.93	9.15	9.39	9.62	9.86	10.10	10.34	10.58	10.81	11.03
Generation for Own Use	40.76	40.26	42.20	42.69	43.21	43.77	44.34	44.92	45.50	46.07	46.64	47.19	47.73

Table 27. Bulk Chemical Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	241.45	239.03	237.30	235.54	233.91	232.22	230.60	229.27	227.88	226.58	224.99	223.16	221.56	-0.1%
Energy Consumption (trillion Btu) 1/														
Heat and Power														
Residual Fuel Oil	61.2	60.1	58.6	57.0	56.9	55.2	54.0	53.5	52.6	52.5	52.8	52.6	52.2	-2.0%
Distillate Fuel Oil	5.0	4.9	4.7	4.6	4.6	4.5	4.4	4.3	4.2	4.2	4.2	4.1	4.0	-1.6%
Liquefied Petroleum Gases	44.9	44.4	44.1	43.7	43.4	43.0	42.7	42.5	42.4	42.3	42.1	41.9	41.7	-0.3%
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Other Petroleum 2/	209.4	204.1	196.3	188.4	188.3	181.5	176.2	173.8	169.8	170.0	171.0	170.2	168.6	-2.7%
Petroleum Subtotal	320.6	313.5	303.7	293.7	293.2	284.2	277.3	274.1	268.9	269.0	270.1	268.7	266.6	-2.3%
Natural Gas	1485.3	1476.2	1477.2	1477.7	1468.3	1459.6	1448.1	1440.2	1435.5	1426.3	1414.3	1404.1	1395.7	-0.4%
Steam Coal	202.8	202.2	201.7	201.1	200.7	199.8	198.9	198.5	198.1	197.7	197.3	196.9	196.5	-0.3%
Purchased Electricity	473.4	461.1	450.8	440.3	431.1	421.4	412.8	404.9	396.6	389.3	380.7	372.8	364.9	-1.5%
Total Heat and Power	2482.1	2453.1	2433.4	2412.9	2393.3	2365.0	2337.1	2317.6	2299.1	2282.2	2262.5	2242.5	2223.7	-0.9%
Feedstock														
Liquefied Petroleum Gases	1929.7	1891.6	1868.9	1852.9	1841.1	1829.9	1820.2	1812.2	1804.1	1796.2	1787.8	1777.0	1768.0	-0.9%
Petrochemical Feedstocks	1346.5	1327.0	1311.7	1297.2	1285.8	1275.8	1266.8	1259.4	1251.7	1244.6	1236.1	1226.4	1218.0	-0.4%
Natural Gas	473.6	464.4	460.4	455.9	449.9	443.3	436.1	429.6	422.9	416.6	408.9	401.6	394.6	-1.5%
Total Feedstocks	3749.8	3683.0	3641.0	3606.0	3576.8	3549.1	3523.1	3501.2	3478.7	3457.4	3432.9	3405.0	3380.6	-0.8%
Total	6231.9	6136.1	6074.5	6018.8	5970.1	5914.0	5860.2	5818.9	5777.9	5739.7	5695.3	5647.5	5604.3	-0.8%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Heat and Power														
Residual Fuel Oil	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.9%
Distillate Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.5%
Liquefied Petroleum Gases	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.2%
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Other Petroleum	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	-2.6%
Petroleum Subtotal	1.3	1.3	1.3	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	-2.2%
Natural Gas	6.2	6.2	6.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	-0.3%
Steam Coal	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	-0.2%
Purchased Electricity	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	-1.4%
Total Heat and Power	10.3	10.3	10.3	10.2	10.2	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0	-0.8%
Feedstock														
Liquefied Petroleum Gases	8.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.0	8.0	-0.8%
Petrochemical Feedstocks	5.6	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	-0.3%
Natural Gas	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	-1.4%
Total Feedstocks	15.5	15.4	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	-0.7%
Total	25.8	25.7	25.6	25.6	25.5	25.5	25.4	25.4	25.4	25.3	25.3	25.3	25.3	-0.7%

Table 27. Bulk Chemical Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Carbon Dioxide Emissions 3/ (million metric tons)	280.2	275.5	271.9	268.7	265.8	262.4	259.1	256.5	253.9	251.7	249.1	246.5	244.3	-1.0%
Combined Heat and Power 4/														
Generating Capacity (gigawatts)														
Petroleum	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Natural Gas	8.68	8.77	8.86	8.94	9.01	9.08	9.14	9.19	9.25	9.29	9.34	9.39	9.43	1.1%
Coal	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.0%
Other 5/	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.0%
Total	10.15	10.24	10.33	10.41	10.48	10.55	10.61	10.66	10.72	10.77	10.81	10.86	10.90	0.9%
Net Generation (billion kilowatthours)														
Petroleum	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%
Natural Gas	49.20	49.90	50.55	51.17	51.74	52.25	52.72	53.15	53.55	53.92	54.29	54.64	54.98	1.5%
Coal	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	0.0%
Other 5/	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	0.0%
Total	59.48	60.18	60.83	61.45	62.02	62.53	63.00	63.42	63.83	64.20	64.56	64.92	65.26	1.2%
Disposition														
Sales to the Grid	11.24	11.45	11.64	11.82	11.99	12.14	12.27	12.40	12.52	12.63	12.73	12.84	12.94	1.9%
Generation for Own Use	48.24	48.73	49.19	49.63	50.03	50.39	50.72	51.02	51.31	51.57	51.83	52.08	52.32	1.1%

Table 27. Bulk Chemical Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 28. Glass Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	22.54	21.92	21.78	21.73	22.32	23.14	24.06	24.96	25.96	26.95	27.91	28.90	29.83
Energy Consumption (trillion Btu) 1/													
Residual Fuel Oil	2.1	2.0	1.9	1.8	1.9	1.9	2.0	2.1	2.2	2.2	2.3	2.3	2.4
Distillate Fuel Oil	21.2	20.8	20.3	19.4	20.2	20.8	21.5	22.3	23.1	23.9	24.7	25.6	26.3
Liquefied Petroleum Gases	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	23.3	22.7	22.3	21.2	22.1	22.8	23.5	24.4	25.3	26.1	27.0	27.9	28.7
Natural Gas	145.4	141.2	140.2	139.8	142.5	147.3	152.6	157.4	162.9	168.3	173.5	178.8	183.7
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	40.8	39.9	39.5	39.2	40.0	41.4	42.9	44.3	45.9	47.4	48.8	50.3	51.7
Total	209.5	203.8	202.0	200.2	204.6	211.5	219.0	226.2	234.0	241.8	249.3	257.0	264.1
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Residual Fuel Oil	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Distillate Fuel Oil	0.94	0.95	0.93	0.89	0.91	0.90	0.89	0.90	0.89	0.89	0.88	0.88	0.88
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Subtotal	1.03	1.04	1.02	0.98	0.99	0.99	0.98	0.98	0.97	0.97	0.97	0.97	0.96
Natural Gas	6.45	6.44	6.44	6.43	6.39	6.37	6.34	6.31	6.27	6.25	6.22	6.19	6.16
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	1.81	1.82	1.81	1.80	1.79	1.79	1.78	1.78	1.77	1.76	1.75	1.74	1.73
Total	9.29	9.30	9.27	9.21	9.17	9.14	9.10	9.06	9.01	8.97	8.93	8.89	8.85
Carbon Dioxide Emissions 2/ (million metric tons)	17.3	16.7	16.5	16.2	16.6	17.1	17.7	18.2	18.9	19.5	20.1	20.7	21.2
Combined Heat and Power 4/													
Generating Capacity (gigawatts)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Net Generation (billion kilowatthours)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06
Disposition													
Sales to the Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generation for own use	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06

Table 28. Glass Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	30.75	31.77	32.84	33.85	34.86	35.59	36.16	36.60	36.96	37.21	37.30	37.24	37.08	2.2%
Energy Consumption (trillion Btu) 1/														
Residual Fuel Oil	2.4	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	1.2%
Distillate Fuel Oil	27.1	27.9	28.7	29.5	30.4	31.0	31.5	31.9	32.1	32.4	32.5	32.6	32.5	1.9%
Liquefied Petroleum Gases	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	29.5	30.4	31.3	32.1	33.1	33.7	34.2	34.6	34.8	35.1	35.2	35.2	35.1	1.8%
Natural Gas	188.6	194.1	200.2	206.1	211.6	215.6	218.6	220.8	222.6	223.7	223.8	223.0	221.7	1.9%
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Purchased Electricity	53.1	54.6	56.2	57.7	59.2	60.2	61.0	61.5	61.9	62.2	62.2	61.9	61.5	1.8%
Total	271.2	279.1	287.7	296.0	303.9	309.6	313.7	316.9	319.4	321.0	321.2	320.1	318.3	1.9%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Residual Fuel Oil	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-1.0%
Distillate Fuel Oil	0.88	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.88	-0.3%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Petroleum Subtotal	0.96	0.96	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.95	0.95	-0.4%
Natural Gas	6.13	6.11	6.10	6.09	6.07	6.06	6.05	6.03	6.02	6.01	6.00	5.99	5.98	-0.3%
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Purchased Electricity	1.73	1.72	1.71	1.71	1.70	1.69	1.69	1.68	1.68	1.67	1.67	1.66	1.66	-0.4%
Total	8.82	8.79	8.76	8.74	8.72	8.70	8.68	8.66	8.64	8.63	8.61	8.60	8.58	-0.3%
Carbon Dioxide Emissions 2/ (million metric tons)	21.8	22.4	23.1	23.8	24.4	24.8	25.2	25.4	25.6	25.8	25.8	25.7	25.6	1.8%
Combined Heat and Power 4/														
Generating Capacity (gigawatts)														
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	--
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	--
Net Generation (billion kilowatthours)														
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.13	0.14	--
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.13	0.14	--
Disposition														
Sales to the Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Generation for own use	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.13	0.14	--

Table 28. Glass Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 29. Cement Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	8.47	8.40	8.37	7.97	7.89	8.19	8.58	8.74	8.80	8.82	8.89	8.97	8.97
Energy Consumption (trillion Btu) 1/													
Residual Fuel Oil	1.2	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Distillate Fuel Oil	10.4	10.2	9.8	9.1	9.1	9.0	9.0	8.9	8.8	8.6	8.6	8.5	8.3
Petroleum Coke	60.7	59.6	58.9	55.6	54.5	56.2	58.1	58.7	58.6	58.3	58.2	58.3	57.9
Other Petroleum 2/	38.7	38.1	37.6	35.5	34.8	35.9	37.1	37.5	37.4	37.2	37.2	37.2	36.9
Petroleum Subtotal	111.0	109.0	107.5	101.3	99.4	102.1	105.3	106.2	105.9	105.2	105.1	105.1	104.2
Natural Gas	24.0	24.3	24.3	23.1	22.7	23.5	24.4	24.7	24.8	24.8	25.0	25.1	25.0
Steam Coal	258.3	254.3	251.9	238.6	234.2	241.5	249.7	252.3	252.2	251.2	251.3	251.8	250.3
Metallurgical Coal	9.0	8.9	8.8	8.4	8.2	8.5	8.7	8.8	8.8	8.8	8.8	8.8	8.8
Coal Subtotal	267.3	263.2	260.7	247.0	242.4	249.9	258.5	261.2	261.1	260.0	260.1	260.6	259.1
Purchased Electricity	48.9	48.5	48.2	45.5	44.8	46.5	48.6	49.4	49.6	49.6	49.9	50.2	50.1
Total	451.2	445.0	440.6	416.9	409.3	422.1	436.7	441.5	441.4	439.7	440.0	440.9	438.4
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Residual Fuel Oil	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12
Distillate Fuel Oil	1.23	1.21	1.17	1.14	1.15	1.10	1.04	1.02	1.00	0.98	0.96	0.95	0.93
Petroleum Coke	7.16	7.10	7.04	6.98	6.91	6.86	6.78	6.71	6.66	6.60	6.55	6.50	6.45
Other Petroleum 2/	4.57	4.53	4.50	4.45	4.41	4.38	4.33	4.29	4.25	4.22	4.18	4.15	4.12
Petroleum Subtotal	13.10	12.98	12.84	12.70	12.60	12.47	12.28	12.14	12.03	11.92	11.82	11.72	11.62
Natural Gas	2.83	2.89	2.90	2.90	2.88	2.87	2.84	2.83	2.82	2.82	2.81	2.80	2.79
Steam Coal	30.50	30.29	30.10	29.94	29.69	29.47	29.12	28.86	28.66	28.47	28.27	28.08	27.92
Metallurgical Coal	1.06	1.06	1.05	1.05	1.04	1.03	1.02	1.01	1.00	1.00	0.99	0.98	0.98
Coal Subtotal	31.56	31.34	31.15	30.98	30.73	30.50	30.14	29.87	29.66	29.46	29.26	29.06	28.90
Purchased Electricity	5.78	5.78	5.76	5.71	5.68	5.68	5.67	5.65	5.64	5.63	5.61	5.60	5.58
Total	53.27	53.00	52.65	52.30	51.89	51.52	50.92	50.50	50.15	49.83	49.50	49.18	48.89
Carbon Dioxide Emissions 3/ (million metric tons)	44.8	44.0	43.6	41.1	40.4	41.6	43.1	43.6	43.6	43.4	43.4	43.5	43.3
Combined Heat and Power 4/													
Generating Capacity (gigawatts)													
Petroleum	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Coal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
Net Generation (billion kilowatthours)													
Petroleum	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.29	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.35	0.36	0.37	0.38
Coal	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Other 5/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Total	0.52	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.59	0.60
Disposition													
Sales to the Grid	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06
Generation for Own Use	0.48	0.46	0.47	0.48	0.49	0.49	0.50	0.51	0.51	0.52	0.53	0.53	0.54

Table 29. Cement Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	8.94	8.94	8.96	8.99	8.98	8.96	8.94	8.92	8.89	8.88	8.84	8.80	8.74	0.2%
Energy Consumption (trillion Btu) 1/														
Residual Fuel Oil	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	-0.9%
Distillate Fuel Oil	8.2	8.2	8.1	8.1	8.0	8.0	7.9	7.8	7.7	7.6	7.5	7.5	7.4	-1.4%
Petroleum Coke	57.3	56.9	56.6	56.4	56.0	55.5	55.0	54.5	54.1	53.8	53.4	52.9	52.4	-0.5%
Other Petroleum 2/	36.6	36.3	36.1	36.0	35.7	35.4	35.0	34.7	34.5	34.3	34.0	33.7	33.4	-0.5%
Petroleum Subtotal	103.1	102.4	101.8	101.4	100.7	99.8	98.9	98.0	97.3	96.7	95.9	95.0	94.0	-0.6%
Natural Gas	24.9	24.9	24.9	25.0	25.0	24.9	24.8	24.8	24.7	24.6	24.5	24.4	24.2	0.0%
Steam Coal	248.4	247.0	246.0	245.5	244.5	243.4	242.3	241.2	239.9	239.0	237.4	235.8	233.9	-0.3%
Metallurgical Coal	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.5	8.5	8.4	-0.2%
Coal Subtotal	257.1	255.7	254.7	254.2	253.2	252.1	250.9	249.8	248.5	247.5	246.0	244.3	242.3	-0.3%
Purchased Electricity	49.8	49.7	49.6	49.7	49.5	49.3	49.1	48.9	48.6	48.4	48.1	47.8	47.4	-0.1%
Total	434.9	432.6	431.0	430.3	428.5	426.2	423.8	421.5	419.1	417.3	414.4	411.5	407.9	-0.4%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Residual Fuel Oil	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	-1.0%
Distillate Fuel Oil	0.92	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.86	0.85	0.85	0.84	-1.5%
Petroleum Coke	6.41	6.36	6.32	6.27	6.23	6.19	6.15	6.11	6.09	6.06	6.04	6.01	5.99	-0.7%
Other Petroleum 2/	4.09	4.06	4.03	4.00	3.97	3.95	3.92	3.89	3.88	3.86	3.85	3.83	3.82	-0.7%
Petroleum Subtotal	11.53	11.45	11.36	11.29	11.21	11.14	11.06	10.99	10.94	10.89	10.85	10.80	10.76	-0.8%
Natural Gas	2.79	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.77	2.77	2.77	2.77	-0.2%
Steam Coal	27.77	27.62	27.47	27.32	27.22	27.16	27.09	27.03	26.98	26.92	26.86	26.81	26.77	-0.5%
Metallurgical Coal	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	-0.4%
Coal Subtotal	28.74	28.59	28.44	28.29	28.19	28.12	28.06	28.00	27.94	27.88	27.83	27.78	27.73	-0.5%
Purchased Electricity	5.57	5.55	5.54	5.53	5.51	5.50	5.49	5.48	5.46	5.45	5.44	5.43	5.42	-0.3%
Total	48.63	48.37	48.12	47.88	47.69	47.54	47.39	47.24	47.12	47.00	46.89	46.78	46.68	-0.5%
Carbon Dioxide Emissions 3/ (million metric tons)	43.0	42.7	42.6	42.5	42.3	42.1	41.9	41.7	41.4	41.3	41.0	40.7	40.4	-0.4%
Combined Heat and Power 4/														
Generating Capacity (gigawatts)														
Petroleum	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Natural Gas	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.4%
Coal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.8%
Net Generation (billion kilowatthours)														
Petroleum	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Natural Gas	0.39	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.44	0.44	0.45	0.45	2.0%
Coal	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Other 5/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Total	0.61	0.62	0.62	0.63	0.63	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.67	1.2%
Disposition														
Sales to the Grid	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	3.1%
Generation for Own Use	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.59	1.0%

Table 29. Cement Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 30. Iron and Steel Industries Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	73.47	72.58	69.71	67.68	69.24	71.09	73.50	74.60	75.61	76.37	77.70	79.71	80.97
Energy Consumption (trillion Btu) 1/													
Distillate Fuel Oil	6.0	5.7	5.2	4.5	4.9	4.9	5.0	5.1	5.2	5.1	5.2	5.3	5.4
Residual Fuel Oil	20.3	20.4	18.4	15.0	15.1	14.9	14.9	15.1	14.8	14.4	14.4	14.5	14.4
Other Petroleum 2/	92.2	88.5	80.3	63.9	64.2	63.1	62.6	64.1	62.4	60.2	60.0	60.2	59.6
Petroleum Subtotal	118.5	114.6	103.9	83.4	84.2	82.9	82.5	84.4	82.5	79.8	79.6	80.1	79.4
Natural Gas	433.2	426.1	404.1	399.9	399.7	402.3	408.3	404.7	404.7	404.4	405.2	409.5	411.4
Metallurgical Coal	621.8	608.2	585.4	566.6	564.0	562.7	564.1	560.3	556.5	551.9	550.2	551.6	549.7
Net Coke Imports	32.4	31.8	30.3	29.7	29.8	29.7	30.3	30.0	29.8	29.7	29.9	30.9	32.0
Steam Coal	53.2	53.2	52.0	51.0	51.1	51.2	51.6	51.5	51.5	51.4	51.4	51.8	51.9
Coal Subtotal	707.4	693.2	667.6	647.4	644.9	643.6	645.9	641.8	637.7	632.9	631.6	634.3	633.5
Renewables	5.6	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Purchased Electricity	205.3	204.1	194.5	187.5	191.5	196.2	202.8	205.5	207.9	209.6	212.8	218.0	221.3
Total	1470.0	1443.2	1375.3	1323.4	1325.5	1330.3	1344.7	1341.6	1338.0	1331.9	1334.3	1347.2	1350.9
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Distillate Fuel Oil	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Residual Fuel Oil	0.28	0.28	0.26	0.22	0.22	0.21	0.20	0.20	0.20	0.19	0.19	0.18	0.18
Other Petroleum 2/	1.26	1.22	1.15	0.94	0.93	0.89	0.85	0.86	0.83	0.79	0.77	0.76	0.74
Petroleum Subtotal	1.61	1.58	1.49	1.23	1.22	1.17	1.12	1.13	1.09	1.04	1.02	1.01	0.98
Natural Gas	5.90	5.87	5.80	5.91	5.77	5.66	5.56	5.43	5.35	5.29	5.21	5.14	5.08
Metallurgical Coal	8.46	8.38	8.40	8.37	8.15	7.92	7.67	7.51	7.36	7.23	7.08	6.92	6.79
Net Coke Imports	0.44	0.44	0.43	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.39	0.39	0.39
Steam Coal	0.72	0.73	0.75	0.75	0.74	0.72	0.70	0.69	0.68	0.67	0.66	0.65	0.64
Coal Subtotal	9.63	9.55	9.58	9.57	9.31	9.05	8.79	8.60	8.43	8.29	8.13	7.96	7.82
Renewables	0.08	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06
Purchased Electricity	2.79	2.81	2.79	2.77	2.77	2.76	2.76	2.75	2.75	2.74	2.74	2.74	2.73
Total	20.01	19.88	19.73	19.55	19.14	18.71	18.30	17.98	17.70	17.44	17.17	16.90	16.68
Carbon Dioxide Emissions 3/ (million metric tons)	137.6	134.5	128.2	122.8	123.3	123.8	125.5	125.5	125.4	125.0	125.4	126.8	127.3
Combined Heat and Power 4/													
Generating Capacity (gigawatts)													
Petroleum	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.13	0.10	0.11	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15
Coal	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Other 5/	1.06	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Total	1.46	1.30	1.30	1.31	1.31	1.32	1.32	1.33	1.33	1.34	1.34	1.35	1.35
Net Generation (billion kilowatthours)													
Petroleum	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Natural Gas	0.44	0.44	0.47	0.49	0.53	0.56	0.60	0.63	0.67	0.71	0.75	0.79	0.83
Coal	1.41	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Other 5/	4.42	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94
Total	6.33	5.92	5.95	5.98	6.01	6.04	6.08	6.12	6.16	6.19	6.23	6.27	6.31
Disposition													
Sales to the Grid	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.80	0.80	0.81	0.81	0.82
Generation for Own Use	5.56	5.15	5.18	5.20	5.23	5.26	5.29	5.33	5.36	5.39	5.43	5.46	5.50

Table 30. Iron and Steel Industries Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	82.28	83.26	84.24	85.39	86.05	86.55	86.86	87.08	87.08	87.02	86.39	85.53	84.44	0.6%
Energy Consumption (trillion Btu) 1/														
Distillate Fuel Oil	5.4	5.3	5.2	5.2	5.2	5.1	5.0	4.9	4.8	4.7	4.6	4.4	4.3	-1.2%
Residual Fuel Oil	14.4	14.3	14.1	13.9	14.0	13.8	13.6	13.5	13.3	13.2	13.0	12.8	12.4	-2.1%
Other Petroleum 2/	58.9	58.3	57.0	56.0	56.0	55.2	54.1	53.3	52.4	51.8	50.7	49.3	47.6	-2.5%
Petroleum Subtotal	78.7	77.9	76.3	75.2	75.2	74.2	72.8	71.8	70.5	69.7	68.3	66.5	64.3	-2.4%
Natural Gas	414.2	416.5	420.7	425.5	426.7	427.8	427.6	427.1	426.1	424.1	419.8	414.6	408.5	-0.2%
Metallurgical Coal	548.1	546.3	545.2	545.1	542.8	539.9	535.7	531.3	526.1	520.9	513.2	504.8	495.5	-0.9%
Net Coke Imports	33.2	34.4	35.3	36.1	37.1	37.9	38.6	39.3	39.8	40.1	40.3	40.0	39.7	0.9%
Steam Coal	52.0	52.1	52.1	52.2	52.2	52.2	52.0	51.9	51.7	51.5	51.1	50.6	50.1	-0.3%
Coal Subtotal	633.3	632.7	632.6	633.5	632.1	629.9	626.4	622.5	617.6	612.5	604.5	595.4	585.2	-0.7%
Renewables	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	0.0%
Purchased Electricity	224.7	227.1	229.5	232.3	234.0	235.4	236.2	236.8	237.0	237.0	235.6	233.4	230.6	0.5%
Total	1356.2	1359.5	1364.4	1371.7	1373.3	1372.5	1368.3	1363.5	1356.5	1348.6	1333.5	1315.2	1293.9	-0.5%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Distillate Fuel Oil	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	-1.8%
Residual Fuel Oil	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	-2.7%
Other Petroleum 2/	0.72	0.70	0.68	0.66	0.65	0.64	0.62	0.61	0.60	0.59	0.59	0.58	0.56	-3.2%
Petroleum Subtotal	0.96	0.94	0.91	0.88	0.87	0.86	0.84	0.82	0.81	0.80	0.79	0.78	0.76	-3.0%
Natural Gas	5.03	5.00	4.99	4.98	4.96	4.94	4.92	4.91	4.89	4.87	4.86	4.85	4.84	-0.8%
Metallurgical Coal	6.66	6.56	6.47	6.38	6.31	6.24	6.17	6.10	6.04	5.99	5.94	5.90	5.87	-1.5%
Net Coke Imports	0.40	0.41	0.42	0.42	0.43	0.44	0.44	0.45	0.46	0.46	0.46	0.47	0.47	0.3%
Steam Coal	0.63	0.63	0.62	0.61	0.61	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.59	-0.9%
Coal Subtotal	7.70	7.60	7.51	7.42	7.35	7.28	7.21	7.15	7.09	7.04	7.00	6.96	6.93	-1.3%
Renewables	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.6%
Purchased Electricity	2.73	2.73	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.73	2.73	-0.1%
Total	16.48	16.33	16.20	16.06	15.96	15.86	15.75	15.66	15.58	15.50	15.44	15.38	15.32	-1.1%
Carbon Dioxide Emissions 3/ (million metric tons)	128.1	128.4	128.8	129.7	129.9	130.0	129.8	129.4	128.9	128.3	127.0	125.4	123.7	-0.3%
Combined Heat and Power 4/														
Generating Capacity (gigawatts)														
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	2.8%
Coal	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%
Other 5/	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.0%
Total	1.36	1.36	1.37	1.37	1.38	1.38	1.38	1.39	1.39	1.39	1.39	1.40	1.40	0.3%
Net Generation (billion kilowatthours)														
Petroleum	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Natural Gas	0.87	0.91	0.95	0.98	1.01	1.04	1.07	1.09	1.11	1.13	1.15	1.17	1.19	4.3%
Coal	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	0.0%
Other 5/	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	0.0%
Total	6.35	6.39	6.43	6.47	6.50	6.53	6.55	6.58	6.60	6.62	6.64	6.66	6.67	0.5%
Disposition														
Sales to the Grid	0.82	0.82	0.83	0.83	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.86	0.4%
Generation for Own Use	5.53	5.57	5.60	5.63	5.66	5.69	5.71	5.73	5.75	5.77	5.79	5.80	5.82	0.5%

Table 30. Iron and Steel Industries Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 31. Aluminum Industry Energy Consumption

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments (billion 2000 dollars)	29.63	28.57	27.07	27.83	27.24	27.16	28.26	29.07	29.95	30.83	31.76	32.44	32.45
Energy Consumption (trillion Btu) 1/													
Distillate Fuel Oil	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9
Liquefied Petroleum Gases	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
Petroleum Coke	39.2	38.6	37.9	37.3	36.5	35.8	35.1	34.5	33.8	33.2	32.6	32.0	31.4
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	41.0	40.3	39.5	38.7	38.1	37.3	36.7	36.0	35.4	34.8	34.2	33.7	33.1
Natural Gas	132.3	127.1	120.7	122.5	119.3	118.3	121.3	123.3	125.3	127.5	129.8	131.2	130.4
Steam Coal	30.0	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
Renewables	14.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Purchased Electricity	181.1	177.4	173.4	171.6	168.2	165.5	164.2	162.6	161.2	159.9	158.6	157.1	155.0
Total	399.4	386.7	375.6	374.9	367.4	363.1	364.2	363.9	363.9	364.2	364.6	364.0	360.5
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Distillate Fuel Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gases	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
Petroleum Coke	1.32	1.35	1.40	1.34	1.34	1.32	1.24	1.19	1.13	1.08	1.03	0.99	0.97
Other Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Subtotal	1.38	1.41	1.46	1.39	1.40	1.37	1.30	1.24	1.18	1.13	1.08	1.04	1.02
Natural Gas	4.47	4.45	4.46	4.40	4.38	4.35	4.29	4.24	4.19	4.14	4.09	4.05	4.02
Steam Coal	1.01	1.05	1.11	1.08	1.10	1.10	1.06	1.03	1.00	0.97	0.94	0.92	0.92
Renewables	0.50	0.42	0.44	0.43	0.44	0.44	0.43	0.41	0.40	0.39	0.38	0.37	0.37
Purchased Electricity	6.11	6.21	6.41	6.17	6.17	6.09	5.81	5.59	5.38	5.19	4.99	4.84	4.77
Total	13.48	13.54	13.88	13.47	13.49	13.37	12.89	12.52	12.15	11.81	11.48	11.22	11.11
Carbon Dioxide Emissions 2/ (million metric tons)	48.2	46.4	45.0	44.4	43.5	42.6	42.5	42.2	41.9	41.7	41.5	41.2	40.7
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Other 5/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Total	0.75	0.75	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77
Net Generation (billion kilowatthours)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.12	0.13
Coal	2.55	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49
Other 5/	1.67	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Total	4.22	4.08	4.09	4.10	4.11	4.12	4.14	4.15	4.16	4.17	4.19	4.20	4.21
Disposition													
Sales to the Grid	1.49	1.20	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.22	1.22	1.22	1.22
Generation for Own Use	2.73	2.88	2.89	2.90	2.91	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.99

Table 31. Aluminum Industry Energy Consumption

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments (billion 2000 dollars)	32.71	33.13	33.68	34.15	34.23	34.26	34.41	34.40	34.66	34.84	35.01	35.06	34.88	0.8%
Energy Consumption (trillion Btu) 1/														
Distillate Fuel Oil	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	-0.2%
Liquefied Petroleum Gases	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	-0.2%
Petroleum Coke	30.8	30.3	29.7	29.2	28.6	28.1	27.6	27.2	26.8	26.5	26.2	25.9	25.5	-1.7%
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	32.5	32.0	31.4	30.9	30.3	29.8	29.3	28.8	28.5	28.2	27.8	27.5	27.1	-1.6%
Natural Gas	130.4	131.0	132.4	133.7	133.6	133.3	133.2	132.7	133.0	133.1	133.1	132.9	131.9	0.2%
Steam Coal	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	0.0%
Renewables	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	0.0%
Purchased Electricity	153.0	151.3	149.7	148.0	146.2	144.5	142.8	141.0	139.5	138.1	136.6	135.0	133.2	-1.2%
Total	358.0	356.2	355.5	354.6	352.1	349.5	347.3	344.5	343.0	341.3	339.5	337.3	334.2	-0.6%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Distillate Fuel Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	-1.0%
Liquefied Petroleum Gases	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.0%
Petroleum Coke	0.94	0.91	0.88	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	-2.5%
Other Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Petroleum Subtotal	0.99	0.97	0.93	0.90	0.89	0.87	0.85	0.84	0.82	0.81	0.79	0.78	0.78	-2.4%
Natural Gas	3.99	3.95	3.93	3.92	3.90	3.89	3.87	3.86	3.84	3.82	3.80	3.79	3.78	-0.7%
Steam Coal	0.92	0.90	0.89	0.88	0.87	0.87	0.87	0.87	0.86	0.86	0.86	0.85	0.86	-0.8%
Renewables	0.37	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.35	-0.8%
Purchased Electricity	4.68	4.57	4.44	4.33	4.27	4.22	4.15	4.10	4.03	3.96	3.90	3.85	3.82	-2.0%
Total	10.94	10.75	10.55	10.38	10.29	10.20	10.09	10.01	9.90	9.80	9.70	9.62	9.58	-1.4%
Carbon Dioxide Emissions 2/ (million metric tons)	40.3	40.0	39.6	39.4	39.0	38.7	38.4	38.0	37.7	37.4	37.2	36.9	36.6	-1.0%
Combined Heat and Power 4/ Generating Capacity (gigawatts)														
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	--
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.0%
Other 5/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.0%
Total	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.2%
Net Generation (billion kilowatthours)														
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	--
Coal	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	0.0%
Other 5/	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	0.0%
Total	4.22	4.23	4.24	4.25	4.26	4.27	4.28	4.29	4.29	4.30	4.30	4.31	4.31	0.2%
Disposition														
Sales to the Grid	1.22	1.22	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.24	1.24	1.24	0.1%
Generation for Own Use	3.00	3.01	3.02	3.03	3.03	3.04	3.05	3.05	3.06	3.06	3.07	3.07	3.08	0.3%

Table 31. Aluminum Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 32. Nonmanufacturing Sector Energy Consumption (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture													
Distillate Fuel Oil	497.0	496.3	527.6	527.8	513.5	516.3	516.6	515.7	513.6	511.6	509.9	507.3	503.8
Liquefied Petroleum Gases	86.3	85.5	89.3	90.8	88.1	89.3	89.8	90.0	89.8	89.6	89.6	89.3	88.9
Motor Gasoline	161.1	160.6	169.5	169.5	165.3	166.4	167.0	167.3	167.1	166.9	166.7	166.3	165.5
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	744.4	742.4	786.4	788.1	766.9	772.1	773.3	772.9	770.5	768.1	766.2	762.9	758.1
Natural Gas	81.7	82.7	89.7	92.0	90.1	92.0	92.9	93.6	94.2	94.7	95.5	96.0	96.3
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	20.5	21.0	22.7	22.8	22.6	22.9	23.2	23.5	23.7	23.9	24.1	24.3	24.5
Purchased Electricity	125.5	125.3	132.5	132.6	129.5	130.6	131.3	131.8	131.8	131.9	132.0	131.9	131.4
Total	972.0	971.3	1031.2	1035.5	1009.1	1017.6	1020.8	1021.8	1020.2	1018.6	1017.8	1015.0	1010.3
Construction													
Distillate Fuel Oil	505.3	502.9	449.0	401.0	397.3	425.5	457.6	468.2	471.1	470.8	473.1	476.2	474.2
Liquefied Petroleum Gases	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Gasoline	157.7	156.6	140.4	125.5	124.2	132.8	142.7	146.2	147.3	147.3	148.1	149.2	148.6
Asphalt and Road Oil	1322.3	1306.1	1165.4	1035.2	1016.3	1078.0	1148.6	1166.4	1164.7	1155.6	1153.4	1154.1	1143.0
Petroleum Subtotal	1985.2	1965.6	1754.9	1561.7	1537.8	1636.3	1748.9	1780.9	1783.2	1773.7	1774.5	1779.5	1765.9
Natural Gas	272.0	269.9	237.1	208.7	204.8	218.1	233.0	234.4	232.9	230.3	228.9	228.0	225.1
Purchased Electricity	117.3	117.7	106.0	94.9	94.0	100.7	108.3	111.1	112.1	112.3	113.1	114.1	113.8
Total	2374.5	2353.2	2098.0	1865.3	1836.6	1955.1	2090.1	2126.4	2128.2	2116.3	2116.5	2121.6	2104.8
Mining													
Residual Fuel Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Distillate Fuel Oil	115.0	119.1	119.5	115.7	116.3	118.1	119.7	120.0	119.7	119.2	119.2	119.5	119.0
Motor Gasoline	14.9	15.3	15.5	15.2	15.4	15.7	15.7	15.8	15.7	15.7	15.7	15.8	15.7
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	129.9	134.4	135.0	131.0	131.7	133.8	135.4	135.8	135.4	134.9	134.9	135.2	134.7
Natural Gas	649.2	603.5	608.3	596.1	595.8	593.6	586.2	580.2	574.0	567.7	563.9	560.0	554.3
Natural Gas to Liquids Heat and Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lease and Plant Fuel	1143.8	1169.3	1180.3	1166.8	1191.6	1211.8	1211.9	1218.8	1219.1	1218.6	1224.4	1230.4	1230.3
Steam Coal	19.4	21.0	21.1	20.7	20.7	20.9	21.2	21.3	21.3	21.3	21.4	21.5	21.5
Renewables	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Purchased Electricity excluding Oil Shale	208.8	217.0	221.2	214.5	216.9	221.3	224.2	225.5	225.5	225.3	225.9	226.9	226.5
Purchased Electricity for Oil Shale	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2153.3	2147.5	2168.1	2131.4	2159.1	2184.0	2181.4	2184.2	2177.8	2170.3	2172.9	2176.5	2169.7
Value of Shipments (billion 2000 dollars)													
Agriculture	262.45	261.18	273.28	272.63	267.84	270.64	273.99	276.87	278.53	280.16	281.40	282.30	282.40
Construction	1043.81	1045.43	943.45	849.58	845.57	907.94	980.41	1014.03	1030.36	1038.30	1052.92	1069.89	1072.98
Mining	218.51	224.31	229.76	229.55	236.02	240.75	242.36	244.24	245.39	246.20	248.63	251.02	251.70
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Agriculture	3.70	3.72	3.77	3.80	3.77	3.76	3.73	3.69	3.66	3.64	3.62	3.60	3.58
Construction	2.27	2.25	2.22	2.20	2.17	2.15	2.13	2.10	2.07	2.04	2.01	1.98	1.96
Mining	9.85	9.57	9.44	9.29	9.15	9.07	9.00	8.94	8.88	8.82	8.74	8.67	8.62

Table 32. Nonmanufacturing Sector Energy Consumption (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Carbon Dioxide Emissions 1/ (million metric tons)													
Agriculture	81.7	81.0	85.7	85.7	83.5	83.9	84.2	84.2	84.1	84.0	83.8	83.5	83.1
Construction	85.1	84.3	75.2	66.8	66.1	70.5	75.7	77.3	77.7	77.6	77.8	78.2	77.8
Mining	85.8	84.5	85.4	82.7	83.2	83.7	84.0	83.8	83.5	83.0	82.8	82.7	82.3
Agriculture, Construction, and Mining:													
Combined Heat and Power 2/													
Generating Capacity (gigawatts)													
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	0.19	0.15	0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.27	0.28	0.30
Coal	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Other 3/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Total	0.47	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.51	0.52	0.54	0.56	0.57
Net Generation (billion kilowatthours)													
Petroleum	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.55	0.55	0.62	0.70	0.78	0.88	0.98	1.09	1.20	1.31	1.43	1.55	1.68
Coal	0.73	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Other 3/	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Total	1.50	1.56	1.64	1.72	1.80	1.90	2.00	2.10	2.21	2.33	2.44	2.57	2.69
Disposition													
Sales to the Grid	0.22	0.23	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28
Generation for Own Use	1.28	1.34	1.41	1.48	1.56	1.66	1.75	1.85	1.96	2.06	2.18	2.29	2.41

Table 32. Nonmanufacturing Sector Energy Consumption (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Agriculture														
Distillate Fuel Oil	500.9	497.6	494.0	491.7	488.9	486.3	484.3	484.2	484.4	484.6	484.8	484.9	485.6	-0.1%
Liquefied Petroleum Gases	88.5	88.0	87.6	87.6	87.3	86.9	86.5	86.1	85.9	85.7	85.5	85.2	85.3	0.0%
Motor Gasoline	164.9	164.3	164.2	164.5	164.7	165.0	165.4	165.8	166.2	166.7	167.2	167.7	168.3	0.2%
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	754.3	749.8	745.8	743.7	740.9	738.2	736.2	736.1	736.5	737.0	737.5	737.8	739.2	0.0%
Natural Gas	96.7	96.9	97.3	98.1	98.8	99.4	100.1	100.8	101.5	102.3	103.1	103.8	104.7	1.0%
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewables	24.6	24.8	25.0	25.2	25.4	25.6	25.8	26.0	26.3	26.5	26.8	27.0	27.3	1.1%
Purchased Electricity	131.2	130.9	130.5	130.5	130.5	130.6	130.8	131.0	131.3	131.7	132.0	132.4	132.9	0.2%
Total	1006.8	1002.4	998.6	997.5	995.5	993.8	992.9	993.8	995.6	997.5	999.3	1000.9	1004.1	0.1%
Construction														
Distillate Fuel Oil	472.8	470.5	468.6	466.9	465.7	464.0	464.8	469.9	474.5	477.0	477.1	478.4	482.2	-0.2%
Liquefied Petroleum Gases	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Motor Gasoline	148.2	147.5	147.5	147.7	148.1	148.3	149.2	150.9	152.5	153.4	153.4	153.9	155.2	0.0%
Asphalt and Road Oil	1135.0	1125.1	1117.3	1115.7	1117.6	1118.6	1125.2	1137.8	1149.6	1156.0	1156.2	1159.4	1169.1	-0.5%
Petroleum Subtotal	1756.1	1743.2	1733.4	1730.3	1731.4	1730.8	1739.2	1758.6	1776.6	1786.4	1786.8	1791.7	1806.5	-0.4%
Natural Gas	222.5	219.7	219.6	219.8	220.3	220.6	221.8	224.0	226.1	227.3	227.5	228.2	230.0	-0.7%
Purchased Electricity	113.7	113.3	113.0	112.8	112.9	112.9	113.5	114.7	115.9	116.5	116.5	116.8	117.7	0.0%
Total	2092.3	2076.2	2066.0	2062.9	2064.7	2064.3	2074.5	2097.3	2118.6	2130.2	2130.8	2136.7	2154.2	-0.4%
Mining														
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Distillate Fuel Oil	118.2	117.6	117.4	117.3	116.8	116.2	115.9	116.0	116.3	116.8	116.8	116.9	117.2	-0.1%
Motor Gasoline	15.6	15.5	15.6	15.6	15.6	15.6	15.6	15.5	15.6	15.6	15.5	15.4	15.4	0.0%
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	133.9	133.2	133.0	132.9	132.4	131.8	131.5	131.6	131.9	132.4	132.3	132.3	132.6	-0.1%
Natural Gas	547.6	540.5	541.7	542.9	542.9	540.8	540.2	538.4	538.6	537.9	534.3	530.9	529.6	-0.5%
Natural Gas to Liquids Heat and Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Lease and Plant Fuel	1226.6	1221.7	1252.3	1284.8	1286.9	1279.3	1276.9	1272.3	1277.3	1276.5	1273.8	1269.2	1267.4	0.3%
Steam Coal	21.5	21.5	21.5	21.6	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.5	0.3%
Renewables	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	-0.2%
Purchased Electricity excluding Oil Shale	225.4	224.2	224.1	224.0	223.9	223.3	223.2	222.9	223.4	223.8	223.3	222.7	222.7	0.1%
Purchased Electricity for Oil Shale	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	2157.3	2143.5	2175.1	2208.7	2210.2	2199.3	2195.9	2189.3	2195.5	2194.9	2188.2	2179.7	2177.0	0.1%
Value of Shipments (billion 2000 dollars)														
Agriculture	283.01	283.63	284.31	285.37	286.36	287.47	288.73	290.21	291.72	293.27	294.76	296.36	298.17	0.6%
Construction	1077.60	1079.68	1082.60	1086.25	1091.40	1094.65	1104.51	1121.22	1137.03	1146.69	1149.22	1155.11	1168.52	0.5%
Mining	251.48	250.99	252.46	253.63	253.84	252.62	252.46	251.48	252.08	252.08	250.27	248.57	247.92	0.4%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Agriculture	3.56	3.53	3.51	3.50	3.48	3.46	3.44	3.42	3.41	3.40	3.39	3.38	3.37	-0.4%
Construction	1.94	1.92	1.91	1.90	1.89	1.89	1.88	1.87	1.86	1.86	1.85	1.85	1.84	-0.8%
Mining	8.58	8.54	8.62	8.71	8.71	8.71	8.70	8.71	8.71	8.71	8.74	8.77	8.78	-0.4%

Table 32. Nonmanufacturing Sector Energy Consumption (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Carbon Dioxide Emissions 1/ (million metric tons)														
Agriculture	82.8	82.4	82.0	82.0	81.8	81.7	81.6	81.7	81.8	82.0	82.2	82.4	82.8	0.1%
Construction	77.5	77.1	76.8	76.7	76.7	76.6	77.0	77.8	78.6	79.0	79.1	79.3	80.1	-0.2%
Mining	81.7	81.0	81.0	81.1	81.0	80.8	80.8	80.7	80.8	81.0	80.8	80.5	80.8	-0.2%
Agriculture, Construction, and Mining:														
Combined Heat and Power 2/														
Generating Capacity (gigawatts)														
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Natural Gas	0.32	0.33	0.35	0.36	0.38	0.39	0.41	0.42	0.43	0.45	0.46	0.47	0.48	5.0%
Coal	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.0%
Other 3/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.0%
Total	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.71	0.72	0.73	0.74	0.75	2.4%
Net Generation (billion kilowatthours)														
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Natural Gas	1.80	1.92	2.05	2.17	2.29	2.40	2.50	2.60	2.69	2.78	2.86	2.94	3.03	7.4%
Coal	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.0%
Other 3/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Total	2.82	2.94	3.06	3.19	3.30	3.41	3.52	3.61	3.70	3.79	3.88	3.96	4.04	4.0%
Disposition														
Sales to the Grid	0.29	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	2.0%
Generation for Own Use	2.53	2.65	2.76	2.88	2.99	3.09	3.19	3.28	3.37	3.45	3.53	3.61	3.69	4.3%

Table 32. Nonmanufacturing Sector Energy Consumption (trillion Btu)

1/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

2/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

3/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

4/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

5/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 33. Other Industrial Sector Energy Consumption (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fabricated Metal Product Consumption 1/													
Liquefied Petroleum Gases	2.0	1.9	1.9	1.8	1.9	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2
Distillate Fuel Oil	3.3	3.1	3.0	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.6	2.6
Residual Fuel Oil	2.5	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	7.8	7.4	7.2	6.7	6.7	6.8	6.9	7.0	6.9	6.8	6.8	6.8	6.7
Natural Gas	191.9	193.8	194.0	187.8	185.9	188.4	191.1	192.5	191.6	190.5	189.8	189.3	187.5
Metallurgical Coal	3.6	3.5	3.4	3.3	3.2	3.1	3.1	3.0	2.9	2.8	2.7	2.6	2.6
Steam Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	159.0	162.2	162.8	159.8	159.9	163.5	166.8	168.7	168.4	168.0	167.8	167.7	167.1
Total	362.5	367.2	367.6	357.7	355.9	361.9	368.0	371.3	369.9	368.2	367.3	366.6	364.0
Machinery Consumption 1/													
Liquefied Petroleum Gases	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Distillate Fuel Oil	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0
Natural Gas	75.2	78.0	79.6	79.0	80.0	81.5	82.6	83.7	84.2	84.8	85.7	86.4	86.5
Steam Coal	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	86.5	90.9	92.3	92.0	94.3	96.2	97.4	99.1	100.1	101.3	102.6	103.9	104.6
Total	166.1	173.4	176.3	175.3	178.7	182.1	184.4	187.1	188.7	190.5	192.7	194.7	195.5
Computers Consumption 1/													
Liquefied Petroleum Gases	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Distillate Fuel Oil	0.2	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.6
Residual Fuel Oil	0.2	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	0.9	1.4	1.2	1.0	1.3	1.3	1.2	1.2	1.1	1.2	1.3	1.5	1.6
Natural Gas	48.1	55.1	55.7	56.6	61.1	63.6	62.4	61.6	61.5	63.6	66.6	70.2	73.4
Steam Coal	17.2	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	121.0	128.0	129.7	131.4	137.2	140.9	142.8	145.1	148.2	152.6	157.5	162.7	167.6
Total	187.2	199.1	201.2	203.7	214.2	220.5	221.1	222.5	225.4	232.0	240.0	249.0	257.3
Transportation Equipment Consumption 1/													
Liquefied Petroleum Gases	1.8	1.7	1.7	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Distillate Fuel Oil	1.6	1.6	1.5	1.2	1.4	1.4	1.5	1.6	1.6	1.5	1.5	1.5	1.5
Residual Fuel Oil	8.5	7.8	6.9	4.2	5.2	5.1	5.3	5.5	5.5	5.3	5.5	5.7	5.7
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	11.9	11.1	10.0	7.0	8.1	8.1	8.4	8.8	8.7	8.5	8.7	8.9	8.9
Natural Gas	185.8	184.6	183.2	180.1	182.3	187.2	196.4	199.2	197.0	193.8	192.0	190.8	188.1
Steam Coal	3.1	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	170.5	171.1	169.0	165.4	169.4	174.8	184.7	188.2	186.2	183.1	181.4	180.5	178.3
Total	371.4	370.0	365.4	355.6	363.0	373.2	392.7	399.3	395.1	388.4	385.1	383.3	378.3

Table 33. Other Industrial Sector Energy Consumption (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electrical Equipment Consumption 1/													
Liquefied Petroleum Gases	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Distillate Fuel Oil	0.6	0.7	0.7	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Coke	67.8	70.2	72.2	68.3	68.6	69.3	70.0	70.7	71.1	71.4	72.0	72.5	73.0
Petroleum Subtotal	69.1	71.6	73.6	69.5	69.8	70.6	71.2	72.0	72.4	72.8	73.4	74.0	74.4
Natural Gas	45.8	47.5	49.4	46.6	46.7	47.7	48.6	49.4	49.9	50.2	50.8	51.3	51.5
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Purchased Electricity	45.5	47.8	49.8	47.9	48.1	49.4	50.5	51.5	52.2	52.9	53.6	54.3	54.8
Total	160.5	167.0	173.0	164.1	164.7	167.8	170.5	173.0	174.6	176.0	177.9	179.6	180.8
Value of Shipments (billion 2000 dollars)													
Fabricated Metal Products	252.18	258.26	260.65	256.91	260.53	268.78	276.97	282.23	283.90	285.49	287.64	289.89	291.90
Machinery	283.06	299.50	304.12	305.66	318.11	323.61	329.33	338.04	344.87	351.91	360.19	368.12	374.73
Computers	469.37	504.72	525.66	552.77	600.02	624.99	645.74	671.86	702.89	739.76	782.51	826.74	870.19
Transportation Equipment	667.54	664.40	656.67	643.19	673.31	700.27	749.13	768.55	765.15	758.49	762.95	769.64	768.13
Electrical Equipment	108.95	116.20	122.91	117.71	119.36	123.54	127.39	131.31	134.49	137.39	140.91	144.25	147.24
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Fabricated Metal Products	1.44	1.42	1.41	1.39	1.37	1.35	1.33	1.32	1.30	1.29	1.28	1.26	1.25
Machinery	0.59	0.58	0.58	0.57	0.56	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52
Computers	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.31	0.30	0.30
Transportation Equipment	0.56	0.56	0.56	0.55	0.54	0.53	0.52	0.52	0.52	0.51	0.50	0.50	0.49
Electrical Equipment	1.47	1.44	1.41	1.39	1.38	1.36	1.34	1.32	1.30	1.28	1.26	1.25	1.23
Carbon Dioxide Emissions 2/ (million metric tons)													
Fabricated Metal Products	41.6	41.6	41.6	40.3	40.2	40.7	41.4	41.8	41.7	41.5	41.3	41.2	41.0
Machinery	21.0	21.6	21.8	21.5	22.0	22.3	22.6	22.9	23.1	23.3	23.6	23.8	23.9
Computers	27.5	28.4	28.6	28.7	30.0	30.6	30.9	31.2	31.7	32.6	33.6	34.7	35.8
Transportation Equipment	43.8	43.0	42.3	40.9	41.8	42.8	45.1	45.9	45.4	44.6	44.1	43.8	43.3
Electrical Equipment	17.2	17.7	18.4	17.4	17.5	17.7	18.0	18.3	18.5	18.7	18.9	19.0	19.2
Fabricated Metal Products, Machinery, Computers, Transportation Equipment, and Electrical Equipment:													
Combined Heat and Power 3/ Generating Capacity (gigawatts)													
Petroleum	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Natural Gas	0.07	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.18	0.19	0.21
Coal	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Other 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.42	0.41	0.42	0.43	0.44	0.45	0.46	0.48	0.49	0.50	0.51	0.53	0.54
Net Generation (billion kilowatthours)													
Petroleum	0.14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Natural Gas	0.19	0.16	0.23	0.30	0.38	0.47	0.55	0.65	0.74	0.83	0.94	1.04	1.15
Coal	0.77	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Other 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	1.13	0.88	0.96	1.03	1.11	1.19	1.28	1.37	1.47	1.56	1.66	1.77	1.88
Disposition													
Sales to the Grid	0.02	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.13	0.15	0.16
Generation for Own Use	1.11	0.88	0.94	1.00	1.06	1.13	1.21	1.29	1.37	1.45	1.53	1.62	1.72

Table 33. Other Industrial Sector Energy Consumption (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fabricated Metal Product Consumption 1/														
Liquefied Petroleum Gases	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	-0.4%
Distillate Fuel Oil	2.6	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	-1.5%
Residual Fuel Oil	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	-1.7%
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	6.6	6.5	6.3	6.2	6.1	6.0	6.0	5.9	5.8	5.7	5.6	5.6	5.5	-1.2%
Natural Gas	184.7	182.2	181.0	179.8	177.5	175.5	173.4	171.1	169.3	167.5	165.1	162.5	160.2	-0.8%
Metallurgical Coal	2.5	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	-2.3%
Steam Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	-1.0%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Purchased Electricity	165.4	164.1	162.4	160.6	158.5	156.8	155.0	153.0	151.5	150.2	148.4	146.3	144.4	-0.5%
Total	359.4	355.4	352.3	349.2	344.6	340.8	336.8	332.3	328.9	325.7	321.3	316.6	312.3	-0.7%
Machinery Consumption 1/														
Liquefied Petroleum Gases	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-0.3%
Distillate Fuel Oil	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	-0.7%
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	-0.4%
Natural Gas	86.0	85.2	84.8	84.3	83.4	82.5	81.4	80.3	79.5	78.5	77.5	76.5	75.6	-0.1%
Steam Coal	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Purchased Electricity	104.9	105.2	105.0	104.7	104.5	104.2	103.7	103.3	103.1	102.9	102.8	102.4	102.2	0.5%
Total	195.4	194.8	194.1	193.4	192.2	191.0	189.5	187.9	186.8	185.6	184.5	183.1	182.0	0.2%
Computers Consumption 1/														
Liquefied Petroleum Gases	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2%
Distillate Fuel Oil	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.8%
Residual Fuel Oil	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-2.0%
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-1.0%
Natural Gas	75.0	75.1	75.8	75.9	75.9	75.9	76.1	77.2	78.2	79.3	80.5	81.8	83.0	1.7%
Steam Coal	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	0.0%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Purchased Electricity	171.1	173.6	176.8	180.1	183.2	186.4	189.5	193.0	196.5	200.6	204.4	208.6	212.7	2.1%
Total	262.4	264.8	268.7	272.0	275.0	278.1	281.4	286.0	290.5	295.6	300.6	306.1	311.5	1.9%
Transportation Equipment Consumption 1/														
Liquefied Petroleum Gases	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	-0.5%
Distillate Fuel Oil	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	-0.9%
Residual Fuel Oil	5.5	5.4	5.1	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	-2.0%
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	8.7	8.5	8.2	7.9	7.9	7.8	7.7	7.7	7.6	7.6	7.7	7.6	7.6	-1.6%
Natural Gas	186.1	184.2	184.0	184.3	182.8	182.8	181.9	181.2	180.5	178.8	176.7	175.0	174.5	-0.2%
Steam Coal	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	-0.4%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Purchased Electricity	176.2	173.9	172.5	171.5	169.7	169.5	168.8	168.2	167.4	165.6	163.5	161.5	160.7	-0.3%
Total	374.0	369.5	367.6	366.6	363.4	363.0	361.3	360.0	358.4	354.9	350.8	347.0	345.7	-0.3%

Table 33. Other Industrial Sector Energy Consumption (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electrical Equipment Consumption 1/														
Liquefied Petroleum Gases	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.2%
Distillate Fuel Oil	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	-0.9%
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Petroleum Coke	74.1	74.6	74.9	75.2	75.9	76.4	76.9	77.4	78.0	78.7	79.4	80.1	80.7	0.6%
Petroleum Subtotal	75.5	76.0	76.3	76.6	77.3	77.8	78.2	78.7	79.3	80.1	80.7	81.4	82.1	0.6%
Natural Gas	52.2	52.3	52.6	53.0	53.0	52.8	52.6	52.5	52.4	52.5	52.4	52.4	52.4	0.4%
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0%
Purchased Electricity	55.8	56.3	56.6	56.9	57.1	57.0	57.0	57.0	57.1	57.4	57.5	57.7	57.9	0.8%
Total	183.6	184.8	185.6	186.6	187.4	187.7	188.0	188.3	188.9	190.0	190.7	191.7	192.4	0.6%
Value of Shipments (billion 2000 dollars)														
Fabricated Metal Products	292.56	293.84	294.21	293.89	293.51	293.77	293.65	293.16	293.31	293.48	292.76	291.83	291.22	0.5%
Machinery	380.19	386.22	390.16	393.16	397.40	401.09	404.29	407.52	411.64	415.84	420.90	424.19	428.67	1.5%
Computers	906.84	939.43	975.15	1013.49	1052.91	1092.85	1131.98	1172.51	1212.63	1255.86	1300.37	1345.99	1390.98	4.3%
Transportation Equipment	769.47	770.80	776.12	783.55	787.34	799.09	807.82	817.53	825.46	828.33	830.29	832.11	840.06	1.0%
Electrical Equipment	151.95	155.16	157.65	160.11	162.28	163.95	165.61	167.31	169.20	171.50	173.47	175.69	177.66	1.8%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Fabricated Metal Products	1.23	1.21	1.20	1.19	1.17	1.16	1.15	1.13	1.12	1.11	1.10	1.08	1.07	-1.2%
Machinery	0.51	0.50	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	-1.3%
Computers	0.29	0.28	0.28	0.27	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	-2.3%
Transportation Equipment	0.49	0.48	0.47	0.47	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.42	0.41	-1.3%
Electrical Equipment	1.21	1.19	1.18	1.17	1.15	1.14	1.13	1.13	1.12	1.11	1.10	1.09	1.08	-1.2%
Carbon Dioxide Emissions 2/ (million metric tons)														
Fabricated Metal Products	40.5	40.1	39.6	39.3	38.8	38.4	38.0	37.5	37.1	36.8	36.4	35.9	35.6	-0.6%
Machinery	24.0	23.9	23.8	23.8	23.7	23.6	23.5	23.4	23.3	23.2	23.2	23.1	23.1	0.3%
Computers	36.5	36.9	37.5	38.1	38.7	39.3	39.9	40.6	41.3	42.2	43.0	43.9	44.9	1.9%
Transportation Equipment	42.8	42.2	41.8	41.7	41.3	41.3	41.1	41.0	40.8	40.5	40.0	39.6	39.6	-0.3%
Electrical Equipment	19.5	19.6	19.7	19.8	19.9	19.9	20.0	20.0	20.1	20.2	20.3	20.4	20.6	0.6%
Fabricated Metal Products, Machinery, Computers, Transportation Equipment, and Electrical Equipment:														
Combined Heat and Power 3/														
Generating Capacity (gigawatts)														
Petroleum	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.0%
Natural Gas	0.22	0.24	0.25	0.27	0.28	0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.38	7.0%
Coal	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Other 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67	0.68	0.69	0.70	0.71	2.3%
Net Generation (billion kilowatthours)														
Petroleum	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Natural Gas	1.26	1.38	1.49	1.60	1.70	1.80	1.90	1.99	2.08	2.16	2.24	2.32	2.41	12.0%
Coal	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.0%
Other 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Total	1.99	2.10	2.21	2.32	2.43	2.53	2.62	2.72	2.80	2.89	2.97	3.05	3.14	5.4%
Disposition														
Sales to the Grid	0.18	0.19	0.21	0.23	0.24	0.26	0.27	0.28	0.30	0.31	0.32	0.33	0.34	16.6%
Generation for Own Use	1.81	1.91	2.00	2.10	2.19	2.27	2.35	2.43	2.51	2.58	2.65	2.72	2.79	5.0%

Table 33. Other Industrial Sector Energy Consumption (trillion Btu)

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

3/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

4/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

5/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

6/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 34. Wood, Plastics, and Balance of Manufacturing Sector Energy Consumption (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Wood Products Consumption 1/													
Liquefied Petroleum Gases	4.3	4.0	3.6	3.1	3.1	3.3	3.5	3.6	3.6	3.5	3.6	3.6	3.6
Distillate Fuel Oil	9.0	8.5	7.4	6.2	6.4	6.9	7.3	7.5	7.6	7.5	7.7	7.8	7.7
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	13.3	12.4	11.0	9.2	9.5	10.2	10.8	11.1	11.2	11.1	11.2	11.4	11.3
Natural Gas	49.6	46.4	41.8	36.0	35.3	37.7	39.4	39.4	39.0	38.4	38.2	38.1	37.4
Steam Coal	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Metallurgical Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	236.3	227.5	207.5	181.8	184.4	202.3	218.6	226.5	231.0	234.0	240.4	246.4	248.0
Purchased Electricity	79.0	78.9	77.2	75.3	76.0	83.1	89.4	92.1	93.5	94.3	96.3	98.0	98.1
Total	378.9	366.1	338.3	303.1	306.1	334.1	359.0	370.0	375.5	378.5	386.9	394.7	395.6
Plastics Consumption 1/													
Liquefied Petroleum Gases	4.4	4.1	4.0	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Distillate Fuel Oil	0.9	0.9	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Residual Fuel Oil	6.5	6.2	5.8	4.2	4.5	4.5	4.4	4.6	4.5	4.4	4.5	4.7	4.7
Petroleum Subtotal	11.8	11.2	10.7	8.4	8.8	8.8	8.8	9.0	9.0	8.8	9.0	9.1	9.1
Natural Gas	116.5	110.8	113.0	110.0	106.8	107.6	108.7	108.0	107.9	107.7	107.6	107.2	106.2
Steam Coal	17.9	17.9	17.9	17.8	17.8	17.7	17.1	16.7	15.8	15.3	14.8	14.6	14.6
Metallurgical Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchased Electricity	174.5	171.4	174.8	170.9	169.3	172.8	175.1	175.4	175.3	175.3	176.0	176.6	176.6
Total	320.6	311.2	316.3	307.1	302.7	306.9	309.6	309.1	307.9	307.1	307.5	307.5	306.6
Balance of Manufacturing Consumption 1/													
Liquefied Petroleum Gases	9.5	9.2	8.9	8.6	8.5	8.6	8.6	8.5	8.4	8.4	8.3	8.3	8.3
Distillate Fuel Oil	32.3	32.1	30.6	28.2	28.1	28.0	27.9	27.9	27.6	27.2	27.1	27.0	26.8
Residual Fuel Oil	28.2	26.9	23.2	14.8	16.2	15.2	14.3	14.3	13.8	12.9	12.8	13.0	12.6
Petroleum Coke	50.4	48.1	41.9	26.0	28.1	26.6	25.2	25.7	24.8	23.3	23.2	23.4	22.7
Other Petroleum	12.9	13.2	11.5	8.1	8.6	7.9	7.4	7.0	6.6	6.4	6.1	6.0	5.6
Petroleum Subtotal	133.3	129.5	116.3	85.8	89.5	86.4	83.3	83.5	81.3	78.2	77.7	77.7	76.1
Natural Gas	840.2	818.6	796.2	784.6	753.6	751.9	747.8	734.7	724.7	716.1	707.7	700.0	692.1
Steam Coal	169.6	168.3	164.8	161.4	159.3	157.2	153.1	150.1	145.7	142.3	139.4	136.6	135.2
Metallurgical Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	22.8	23.2	23.1	23.0	23.3	24.3	25.0	25.5	26.0	26.5	27.1	27.8	28.5
Purchased Electricity	566.9	570.8	563.1	551.5	549.4	564.2	573.4	577.4	579.5	582.3	586.4	591.2	596.0
Total	1732.8	1710.4	1663.5	1606.2	1575.1	1584.1	1582.6	1571.2	1557.2	1545.4	1538.4	1533.4	1527.8
Value of Shipments (billion 2000 dollars)													
Wood Products	101.85	97.34	88.48	77.25	78.10	85.39	91.94	94.91	96.46	97.32	99.63	101.73	101.99
Plastics	175.69	170.01	176.33	173.09	173.71	179.51	184.39	187.32	189.86	192.40	195.94	199.26	201.96
Balance of Manufacturing	941.87	954.80	946.67	937.95	949.87	988.58	1016.76	1036.46	1053.81	1072.29	1095.10	1119.90	1144.78
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)													
Wood Products	3.72	3.76	3.82	3.92	3.92	3.91	3.90	3.90	3.89	3.89	3.88	3.88	3.88
Plastics	1.83	1.83	1.79	1.77	1.74	1.71	1.68	1.65	1.62	1.60	1.57	1.54	1.52
Balance of Manufacturing	1.84	1.79	1.76	1.71	1.66	1.60	1.56	1.52	1.48	1.44	1.40	1.37	1.33

Table 34. Wood, Plastics, and Balance of Manufacturing Sector Energy Consumption (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Carbon Dioxide Emissions 2/ (million metric tons carbon dioxide equivalent)													
Wood Products	18.8	18.2	17.5	16.5	16.6	18.0	19.3	19.8	20.0	20.1	20.4	20.7	20.6
Plastics	42.2	40.5	41.1	39.7	39.2	39.6	40.0	39.9	39.8	39.7	39.8	39.7	39.7
Balance of Manufacturing	179.9	176.6	172.1	165.3	163.3	164.5	165.3	164.9	164.2	163.5	163.3	163.2	163.4
Wood, Plastics, and Balance of Manufacturing:													
Combined Heat and Power 3/													
Generating Capacity (gigawatts)													
Petroleum	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Natural Gas	0.27	0.27	0.30	0.33	0.36	0.40	0.43	0.46	0.49	0.52	0.55	0.58	0.61
Coal	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Other 4/	0.30	0.29	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Total	0.79	0.77	0.82	0.86	0.89	0.92	0.95	0.98	1.01	1.04	1.07	1.10	1.13
Net Generation (billion kilowatthours)													
Petroleum	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.15	0.14	0.40	0.63	0.86	1.09	1.32	1.55	1.77	2.00	2.22	2.44	2.66
Coal	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Other 4/	1.50	1.43	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
Total	2.24	2.15	2.53	2.77	2.99	3.22	3.45	3.68	3.91	4.13	4.35	4.58	4.80
Disposition													
Sales to the Grid	0.87	0.83	0.91	0.95	0.98	1.02	1.06	1.09	1.13	1.16	1.19	1.23	1.26
Generation for Own Use	1.37	1.32	1.62	1.81	2.01	2.20	2.40	2.59	2.78	2.97	3.16	3.35	3.54

Table 34. Wood, Plastics, and Balance of Manufacturing Sector Energy Consumption (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Wood Products Consumption 1/														
Liquefied Petroleum Gases	3.5	3.4	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	-1.1%
Distillate Fuel Oil	7.6	7.3	7.0	7.0	6.8	6.7	6.7	6.6	6.6	6.6	6.4	6.4	6.3	-1.2%
Residual Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Petroleum Subtotal	11.1	10.7	10.4	10.3	10.1	9.9	9.8	9.8	9.8	9.7	9.5	9.4	9.4	-1.2%
Natural Gas	36.5	35.6	35.1	34.9	34.4	34.0	33.7	33.7	33.7	33.4	32.9	32.7	32.6	-1.5%
Steam Coal	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0%
Metallurgical Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewables	247.4	245.3	245.0	245.7	245.3	244.6	246.4	250.5	254.4	256.6	256.6	258.0	261.6	0.6%
Purchased Electricity	97.2	96.0	95.1	94.7	94.0	93.2	93.2	94.2	94.9	95.1	94.4	94.3	94.9	0.8%
Total	393.0	388.3	386.4	386.4	384.6	382.6	383.9	389.0	393.6	395.7	394.3	395.2	399.3	0.4%
Plastics Consumption 1/														
Liquefied Petroleum Gases	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	-0.5%
Distillate Fuel Oil	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	-0.5%
Residual Fuel Oil	4.7	4.7	4.6	4.5	4.6	4.6	4.6	4.6	4.6	4.7	4.9	5.0	5.0	-0.9%
Petroleum Subtotal	9.1	9.1	9.0	8.8	8.9	8.9	8.9	8.9	8.9	9.1	9.2	9.3	9.4	-0.7%
Natural Gas	106.5	107.1	108.4	109.9	110.6	111.0	111.0	111.5	112.4	113.0	113.3	113.8	114.6	0.1%
Steam Coal	14.5	14.5	14.5	14.5	14.5	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	-0.9%
Metallurgical Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Purchased Electricity	177.7	178.4	179.4	180.4	181.3	181.9	182.9	183.9	184.9	186.0	186.7	187.4	188.6	0.4%
Total	307.7	309.1	311.2	313.6	315.3	316.3	317.3	318.7	320.7	322.4	323.6	325.0	327.0	0.2%
Balance of Manufacturing Consumption 1/														
Liquefied Petroleum Gases	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	-0.4%
Distillate Fuel Oil	26.6	26.2	26.0	26.0	26.1	26.1	26.1	26.2	26.2	26.3	26.3	26.4	26.4	-0.8%
Residual Fuel Oil	12.3	12.2	11.8	11.4	11.6	11.1	11.1	11.1	10.8	11.0	11.4	11.5	11.6	-3.4%
Petroleum Coke	22.1	21.8	20.9	20.0	20.4	19.6	19.4	19.3	19.0	19.3	19.9	20.1	20.2	-3.5%
Other Petroleum	5.2	5.0	4.8	4.6	4.5	4.4	4.3	4.2	4.1	4.0	4.0	3.9	3.8	-5.1%
Petroleum Subtotal	74.4	73.4	71.8	70.2	70.8	69.4	69.1	69.0	68.3	68.9	69.8	70.2	70.3	-2.5%
Natural Gas	687.3	684.6	688.8	694.2	694.4	692.9	692.0	692.9	695.1	695.3	694.8	695.2	696.5	-0.7%
Steam Coal	133.8	132.8	131.8	130.7	130.4	130.3	129.9	129.9	129.9	129.9	129.9	129.8	129.8	-1.1%
Metallurgical Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewables	29.1	29.5	30.0	30.4	30.8	31.2	31.6	32.0	32.5	32.9	33.4	33.8	34.3	1.6%
Purchased Electricity	599.6	600.8	602.2	603.9	603.9	604.8	605.7	606.3	607.6	609.5	610.0	611.2	612.6	0.3%
Total	1524.1	1521.2	1524.6	1529.5	1530.2	1528.6	1528.3	1530.2	1533.4	1536.6	1537.8	1540.2	1543.5	-0.4%
Value of Shipments (billion 2000 dollars)														
Wood Products	101.37	100.09	99.58	99.47	98.88	98.20	98.48	99.68	100.82	101.24	100.80	100.91	101.87	0.2%
Plastics	206.10	209.98	213.79	217.76	221.60	225.18	229.00	233.09	237.08	241.11	244.86	248.65	252.78	1.7%
Balance of Manufacturing	1166.51	1183.72	1199.94	1215.70	1229.25	1243.98	1258.84	1274.10	1289.90	1306.32	1321.66	1336.71	1352.87	1.5%
Energy Consumption per Unit of Output (thousand Btu per 2000 dollar shipments)														
Wood Products	3.88	3.88	3.88	3.88	3.89	3.90	3.90	3.90	3.90	3.91	3.91	3.92	3.92	0.2%
Plastics	1.49	1.47	1.46	1.44	1.42	1.40	1.39	1.37	1.35	1.34	1.32	1.31	1.29	-1.4%
Balance of Manufacturing	1.31	1.29	1.27	1.26	1.24	1.23	1.21	1.20	1.19	1.18	1.16	1.15	1.14	-1.9%

Table 34. Wood, Plastics, and Balance of Manufacturing Sector Energy Consumption (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Carbon Dioxide Emissions 2/ (million metric tons carbon dioxide equivalent)														
Wood Products	20.4	20.1	19.8	19.8	19.6	19.5	19.5	19.7	19.8	19.8	19.7	19.7	19.9	0.4%
Plastics	39.9	40.0	40.2	40.5	40.7	40.9	41.1	41.3	41.6	41.8	42.0	42.3	42.7	0.2%
Balance of Manufacturing	163.6	163.4	163.3	163.9	163.9	164.0	164.2	164.4	164.7	165.3	165.6	166.0	167.1	-0.2%
Wood, Plastics, and Balance of Manufacturing:														
Combined Heat and Power 3/														
Generating Capacity (gigawatts)														
Petroleum	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Natural Gas	0.63	0.66	0.69	0.72	0.75	0.77	0.80	0.82	0.85	0.87	0.89	0.91	0.94	5.3%
Coal	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.0%
Other 4/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.3%
Total	1.16	1.19	1.21	1.24	1.27	1.30	1.32	1.35	1.37	1.39	1.41	1.43	1.46	2.7%
Net Generation (billion kilowatthours)														
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Natural Gas	2.88	3.10	3.31	3.52	3.73	3.92	4.11	4.29	4.46	4.62	4.79	4.96	5.12	16.1%
Coal	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.0%
Other 4/	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	0.3%
Total	5.01	5.23	5.44	5.65	5.86	6.05	6.24	6.42	6.59	6.76	6.92	7.09	7.26	5.2%
Disposition														
Sales to the Grid	1.29	1.32	1.36	1.39	1.42	1.44	1.47	1.50	1.52	1.54	1.57	1.59	1.61	2.8%
Generation for Own Use	3.72	3.91	4.09	4.27	4.44	4.61	4.77	4.92	5.07	5.22	5.36	5.50	5.64	6.2%

Table 34. Wood, Plastics, and Balance of Manufacturing Sector Energy Consumption (trillion Btu)

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

3/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

4/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

5/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

6/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Source: 2005 and 2006 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," (preliminary). Other 2005 and 2006 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Energy Use by Mode													
Highway													
Light-Duty Vehicles	16226.8	16407.2	16523.3	16466.2	16470.3	16516.5	16558.5	16693.1	16821.0	16927.6	17005.5	17092.9	17141.7
Automobiles	8129.0	8041.9	7982.6	7884.0	7831.6	7796.5	7776.7	7821.9	7873.4	7895.6	7881.7	7868.5	7832.7
Light Trucks	8074.9	8342.7	8518.3	8560.2	8616.9	8698.5	8760.5	8849.9	8926.3	9010.9	9102.7	9203.5	9288.2
Motorcycles	22.9	22.6	22.4	22.0	21.8	21.5	21.3	21.3	21.2	21.1	21.1	20.9	20.8
Commercial Light Trucks 1/ Buses	610.1	617.9	619.9	606.1	606.8	615.9	625.1	631.1	632.7	633.5	635.1	637.5	636.8
Transit	259.5	263.6	262.2	262.0	262.6	263.9	265.8	267.4	268.3	268.9	269.4	270.1	270.7
Intercity	90.2	91.6	91.1	91.1	91.3	91.7	92.4	93.0	93.3	93.5	93.7	93.9	94.1
School	46.9	47.6	47.3	47.3	47.4	47.7	48.0	48.3	48.5	48.6	48.7	48.8	48.9
Freight Trucks 2/ Medium (1000-26000 pounds)	122.4	124.3	123.8	123.6	123.9	124.5	125.4	126.1	126.5	126.8	127.1	127.4	127.7
Large (> 26000 pounds)	4744.7	4892.2	4967.1	4954.0	5018.6	5183.4	5337.8	5436.2	5494.5	5541.3	5601.3	5661.4	5698.6
Medium (1000-26000 pounds)	735.8	733.1	741.0	733.8	731.3	751.8	766.6	772.5	775.9	783.1	794.3	805.9	814.8
Large (> 26000 pounds)	4008.8	4159.1	4226.1	4220.1	4287.3	4431.6	4571.2	4663.7	4718.6	4758.2	4807.0	4855.4	4883.8
Non-Highway													
Air 3/ General Aviation	2723.2	2647.0	2660.3	2712.3	2794.2	2902.8	3020.3	3119.7	3170.8	3230.4	3293.3	3358.5	3420.7
Domestic Air Carriers	163.2	157.5	157.2	156.8	164.2	169.3	174.8	179.4	181.8	184.6	187.5	190.6	193.5
International Air Carriers	1573.4	1490.6	1466.9	1469.2	1486.8	1531.8	1579.9	1617.4	1620.5	1631.7	1643.6	1658.3	1671.2
Freight Carriers	559.1	571.6	617.4	659.2	705.2	757.3	814.4	861.8	895.3	923.8	952.0	978.6	1004.2
Water 4/ Freight	427.5	427.4	418.9	427.2	438.0	444.4	451.1	461.1	473.2	490.4	510.2	531.0	551.7
Domestic Shipping	1316.3	1333.4	1393.2	1376.6	1369.2	1366.4	1360.8	1368.6	1374.5	1379.9	1387.5	1395.7	1401.1
International Shipping	1077.5	1090.7	1144.4	1128.9	1120.9	1117.0	1110.2	1115.3	1118.6	1121.3	1126.1	1131.1	1133.7
Recreational Boats	310.6	315.3	320.9	316.4	319.1	325.8	329.6	333.6	335.9	337.6	341.4	345.3	346.9
Rail	766.9	775.4	823.5	812.5	801.8	791.2	780.6	781.7	782.7	783.7	784.7	785.8	786.8
Freight	238.8	242.7	248.7	247.7	248.3	249.4	250.6	253.2	255.9	258.6	261.4	264.6	267.4
Passenger	587.0	611.4	618.0	616.2	617.1	628.4	648.3	656.2	659.9	664.6	669.7	680.6	685.8
Intercity	545.0	567.8	573.1	570.4	570.3	581.2	600.8	608.3	611.6	616.0	620.7	631.2	636.1
Transit	42.0	43.6	44.8	45.8	46.8	47.2	47.5	47.9	48.3	48.6	49.0	49.3	49.7
Commuter	13.4	14.5	15.2	16.0	15.8	15.3	14.9	14.4	14.1	13.8	13.4	13.1	12.9
Lubricants	14.7	14.9	15.2	15.4	15.7	16.1	16.4	16.7	16.9	17.2	17.4	17.7	17.9
Pipeline Fuel Natural Gas	13.9	14.2	14.4	14.5	15.2	15.8	16.3	16.8	17.3	17.6	18.1	18.5	18.9
Military Use	151.0	147.0	140.0	139.0	140.6	141.7	141.8	142.2	142.7	143.2	143.6	143.9	144.1
Aviation	601.7	592.1	631.8	617.0	634.4	640.1	643.6	650.6	647.8	650.6	656.8	661.6	661.6
Residual Fuel Oil	679.6	688.2	712.5	742.5	738.0	725.4	714.7	708.1	706.0	707.1	709.9	713.4	717.1
Distillate Fuel Oil	531.5	543.7	561.7	585.6	582.4	572.8	564.7	559.5	557.8	558.7	560.9	563.7	566.6

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	27899.9	28200.0	28528.2	28492.0	28651.7	28984.6	29316.8	29673.2	29918.1	30147.1	30372.1	30615.7	30778.2
Energy Use by Type													
Motor Gasoline	17022.0	17195.0	17315.0	17221.2	17211.0	17252.2	17281.3	17397.0	17500.2	17540.7	17460.3	17421.2	17322.3
Distillate Fuel Oil (diesel)	5990.0	6182.0	6267.0	6269.4	6353.2	6544.7	6739.6	6871.1	6959.6	7038.4	7133.4	7238.5	7318.8
Jet Fuel (kerosene & naphtha)	3219.6	3157.7	3190.0	3269.0	3343.9	3443.0	3552.4	3646.7	3696.3	3756.8	3822.0	3890.0	3955.1
Residual Fuel Oil	828.0	832.0	887.0	874.1	862.8	852.7	841.6	843.7	845.2	846.7	848.8	851.0	852.6
Aviation Gasoline	35.1	33.0	32.0	29.0	32.7	32.6	32.5	32.4	32.4	32.3	32.2	32.2	32.2
Liquefied Petroleum Gases	14.9	17.5	17.7	20.2	16.7	15.7	15.8	15.6	15.2	14.9	14.6	14.3	13.9
Lubricants	151.0	147.0	140.0	139.0	140.6	141.7	141.8	142.2	142.7	143.2	143.6	143.9	144.1
Petroleum Subtotal	27260.6	27564.2	27848.8	27821.8	27960.9	28282.6	28605.0	28948.7	29191.6	29373.0	29454.9	29591.0	29638.9
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol	1.1	1.3	1.7	3.6	2.3	2.7	3.6	4.2	4.4	45.2	178.4	277.6	389.3
Electricity	21.4	21.7	22.1	22.4	22.9	23.3	23.7	24.0	24.4	24.6	25.0	25.3	25.6
Compressed Natural Gas	15.1	20.7	23.8	27.1	31.2	35.8	40.8	45.6	49.8	53.4	56.8	59.8	62.4
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5
Pipeline Fuel Natural Gas	601.7	592.1	631.8	617.0	634.4	640.1	643.6	650.6	647.8	650.6	656.8	661.6	661.6
Total Consumption	27899.9	28200.0	28528.2	28492.0	28651.7	28984.6	29316.8	29673.2	29918.1	30147.1	30372.1	30615.8	30778.2

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Energy Use by Mode														
Highway														
Light-Duty Vehicles	17162.1	17161.4	17103.6	17112.3	17101.2	17110.8	17120.6	17107.0	17159.3	17228.1	17309.7	17407.3	17519.8	0.3%
Automobiles	7791.6	7699.6	7608.4	7543.2	7440.2	7461.7	7476.5	7496.5	7528.1	7551.2	7588.6	7640.6	7684.9	-0.2%
Light Trucks	9349.9	9441.3	9474.8	9548.7	9640.6	9628.8	9623.9	9590.5	9611.2	9656.9	9701.1	9746.6	9814.8	0.7%
Motorcycles	20.6	20.5	20.4	20.4	20.4	20.3	20.2	20.0	20.0	20.0	20.0	20.0	20.1	-0.5%
Commercial Light Trucks 1/ Buses	635.5	634.0	631.2	630.2	628.2	627.9	627.8	627.2	629.3	631.9	634.5	638.2	643.3	0.2%
Transit	271.3	271.8	272.3	273.3	274.3	275.5	276.9	278.1	279.6	281.2	282.8	284.4	286.1	0.3%
Intercity	94.3	94.5	94.6	95.0	95.3	95.8	96.2	96.7	97.2	97.7	98.3	98.9	99.4	0.3%
School	49.0	49.1	49.2	49.4	49.6	49.8	50.1	50.3	50.6	50.9	51.2	51.4	51.7	0.3%
Freight Trucks 2/ Medium (1000-26000 pounds)	128.0	128.2	128.4	128.9	129.4	130.0	130.6	131.2	131.9	132.6	133.4	134.1	134.9	0.3%
Large (> 26000 pounds)	5745.4	5794.3	5850.1	5907.2	5959.9	6017.0	6074.2	6133.5	6196.2	6260.9	6321.5	6379.1	6444.9	1.2%
Medium (1000-26000 pounds)	825.6	837.1	849.4	861.9	873.1	884.9	895.6	906.1	917.2	928.2	938.4	945.7	954.0	1.1%
Large (> 26000 pounds)	4919.8	4957.2	5000.7	5045.3	5086.8	5132.1	5178.6	5227.4	5279.0	5332.7	5383.0	5433.4	5490.9	1.2%
Non-Highway														
Air 3/	3483.8	3546.4	3609.1	3671.9	3734.7	3795.9	3856.5	3917.0	3976.6	4036.6	4096.9	4156.6	4216.3	2.0%
General Aviation	196.5	199.5	202.4	205.4	208.4	211.3	214.2	217.0	219.9	222.7	225.6	228.4	231.3	1.6%
Domestic Air Carriers	1684.1	1697.2	1710.6	1724.2	1737.7	1750.5	1762.7	1774.0	1784.8	1795.2	1805.2	1814.9	1824.1	0.8%
International Air Carriers	1029.0	1053.1	1076.3	1098.7	1119.8	1139.5	1157.7	1174.1	1189.0	1202.5	1214.5	1225.2	1234.4	3.3%
Freight Carriers	574.1	596.6	619.7	643.6	668.8	694.6	722.0	751.9	782.9	816.2	851.5	888.0	926.6	3.3%
Water 4/	1406.0	1410.9	1417.0	1423.3	1428.0	1431.8	1436.1	1439.3	1444.6	1449.5	1452.8	1456.0	1460.2	0.4%
Freight	1135.8	1137.7	1141.3	1144.5	1146.9	1147.9	1149.7	1151.0	1153.5	1155.7	1156.4	1157.0	1158.5	0.3%
Domestic Shipping	347.9	348.7	351.3	353.6	354.8	354.8	355.5	355.7	357.1	358.3	357.8	357.3	357.7	0.5%
International Shipping	787.9	788.9	790.0	791.0	792.0	793.1	794.2	795.3	796.3	797.4	798.6	799.7	800.8	0.1%
Recreational Boats	270.2	273.2	275.7	278.7	281.2	283.9	286.4	288.4	291.1	293.8	296.4	299.1	301.6	0.9%
Rail	691.6	697.9	704.3	712.3	718.5	726.4	733.9	740.4	747.1	753.8	761.3	766.8	774.1	1.0%
Freight	641.4	647.1	652.9	660.4	666.1	673.5	680.5	686.5	692.7	698.9	705.9	710.8	717.6	1.0%
Passenger	50.2	50.8	51.4	51.9	52.4	52.9	53.4	53.9	54.4	54.9	55.5	56.0	56.5	1.1%
Intercity	12.8	12.9	13.0	12.9	12.8	12.8	12.7	12.6	12.6	12.5	12.5	12.4	12.4	-0.6%
Transit	18.2	18.4	18.7	18.9	19.1	19.4	19.6	19.8	20.1	20.3	20.5	20.8	21.0	1.4%
Commuter	19.2	19.5	19.8	20.1	20.5	20.8	21.1	21.4	21.8	22.1	22.4	22.8	23.1	2.1%
Lubricants	144.4	144.6	144.9	145.3	145.6	146.1	146.5	146.9	147.4	147.9	148.3	148.7	149.2	0.1%
Pipeline Fuel Natural Gas	660.7	658.6	690.1	722.9	724.3	722.4	722.4	720.5	722.1	721.9	722.7	719.3	718.5	0.8%
Military Use														
Aviation	720.9	724.7	728.5	732.2	736.0	739.7	743.3	747.0	750.6	754.1	757.6	761.1	764.5	0.4%
Residual Fuel Oil	569.6	572.6	575.6	578.6	581.6	584.5	587.4	590.3	593.2	596.0	598.8	601.5	604.2	0.4%
Distillate Fuel Oil	16.5	16.6	16.7	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.5	0.4%
Distillate Fuel Oil	134.8	135.5	136.2	136.9	137.6	138.3	138.9	139.6	140.3	140.9	141.6	142.2	142.8	0.4%

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total	30921.7	31044.6	31151.0	31330.8	31450.8	31593.5	31738.1	31857.1	32052.9	32265.9	32488.2	32717.6	32976.8	0.7%
Energy Use by Type														
Motor Gasoline	17213.3	16902.8	16563.9	16250.0	15786.3	15805.0	15805.6	15832.0	15865.8	15854.3	15882.7	15952.9	15965.3	-0.3%
Distillate Fuel Oil (diesel)	7412.6	7514.7	7629.0	7745.8	7860.5	7986.2	8115.8	8248.0	8387.8	8533.1	8678.6	8823.3	8980.2	1.6%
Jet Fuel (kerosene & naphtha)	4021.3	4086.9	4152.6	4218.4	4284.2	4348.4	4411.9	4475.3	4537.8	4600.5	4663.6	4726.0	4788.6	1.8%
Residual Fuel Oil	853.9	855.2	857.0	858.7	860.2	861.2	862.5	863.7	865.2	866.7	867.7	868.6	869.9	0.2%
Aviation Gasoline	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	-0.1%
Liquefied Petroleum Gases	13.6	13.4	13.3	13.3	13.3	13.4	13.4	13.5	13.5	13.6	13.7	13.7	13.7	-1.0%
Lubricants	144.4	144.6	144.9	145.3	145.6	146.1	146.5	146.9	147.4	147.9	148.3	148.7	149.2	0.1%
Petroleum Subtotal	29691.1	29549.7	29392.8	29263.6	28982.2	29192.3	29387.7	29611.5	29849.6	30048.1	30286.6	30565.3	30798.9	0.5%
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol	478.5	742.3	971.6	1245.2	1642.7	1574.6	1521.6	1416.7	1370.9	1383.8	1365.1	1317.9	1343.1	33.5%
Electricity	25.9	26.2	26.5	26.8	27.1	27.8	28.1	28.3	28.6	28.9	29.2	29.5	29.8	1.3%
Compressed Natural Gas	64.7	66.9	69.0	71.0	72.9	74.7	76.3	77.8	79.2	80.4	81.5	82.3	83.1	6.0%
Liquid Hydrogen	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3	3.5	44.8%
Pipeline Fuel Natural Gas	660.7	658.6	690.1	722.9	724.3	722.4	722.4	720.5	722.1	721.9	722.7	719.3	718.5	0.8%
Total Consumption	30921.7	31044.6	31151.0	31330.8	31450.8	31593.5	31738.1	31857.1	32052.9	32265.9	32488.2	32717.6	32976.8	0.7%

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

1/ Commercial light trucks from 8,500 to 10,000 pounds.

2/ Does not include commercial bus and military use.

3/ Does not include military jet fuel use.

4/ Does not include military residual oil.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2005 and 2006 values derived using: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); EIA, State Energy Data Report 2004, DOE/EIA-0214(2004) (Washington, DC, June 2007); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 and Annual (Oak Ridge, TN, 2007); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Light-Duty Vehicle													
Motor Gasoline	15966.23	16134.44	16246.66	16176.08	16172.91	16204.86	16225.82	16336.46	16439.09	16478.04	16394.23	16349.91	16250.01
Ethanol	1.06	1.31	1.74	3.62	2.31	2.72	3.65	4.20	4.39	45.24	178.41	277.62	389.29
Compressed Natural Gas	6.88	9.87	10.62	11.20	11.49	11.86	12.11	12.21	12.24	12.20	12.04	11.85	11.69
Liquefied Petroleum Gases	5.15	7.26	6.88	8.79	4.63	2.94	2.60	2.26	1.98	1.78	1.59	1.43	1.32
Electricity	0.70	0.68	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.44	0.41	0.38	0.37
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49
Distillate Fuel Oil (diesel)	246.77	253.63	256.72	265.92	278.34	293.58	313.77	337.36	362.67	389.75	418.55	451.37	488.52
Total	16226.80	16407.19	16523.26	16466.22	16470.27	16516.54	16558.53	16693.09	16820.98	16927.62	17005.51	17092.95	17141.69
Commercial Light Trucks Gasoline 1/													
	610.08	617.92	619.93	606.07	606.75	615.86	625.14	631.15	632.68	633.53	635.09	637.53	636.81
Freight Trucks 2/													
Motor Gasoline	237.14	230.35	231.21	223.41	216.67	217.20	216.22	214.04	211.67	210.82	211.12	211.92	212.03
Distillate Fuel Oil (diesel)	4489.60	4640.85	4711.80	4703.32	4770.19	4929.51	5079.74	5175.53	5231.97	5276.14	5332.48	5388.71	5423.29
Compressed Natural Gas	8.24	10.78	13.21	15.87	19.76	23.90	28.64	33.35	37.59	41.25	44.72	47.95	50.66
Liquefied Petroleum Gases	9.70	10.26	10.86	11.36	12.03	12.75	13.20	13.30	13.24	13.11	12.98	12.82	12.58
Total	4744.68	4892.24	4967.07	4953.96	5018.63	5183.36	5337.80	5436.21	5494.47	5541.32	5601.31	5661.40	5698.56
Freight Rail 3/													
Distillate Fuel Oil (diesel)	545.03	567.82	573.15	570.41	570.29	581.23	600.76	608.29	611.62	615.96	620.72	631.25	636.07
Total	545.03	567.82	573.15	570.41	570.29	581.23	600.76	608.29	611.62	615.96	620.72	631.25	636.07
Domestic Shipping													
Distillate Fuel Oil (diesel)	219.47	223.52	223.57	221.37	224.22	229.95	233.65	236.50	238.12	239.33	241.98	244.75	245.89
Residual Oil	91.17	91.79	97.37	95.03	94.86	95.86	95.94	97.12	97.78	98.29	99.37	100.51	100.98
Total	310.64	315.31	320.94	316.40	319.08	325.80	329.60	333.62	335.90	337.62	341.36	345.26	346.88
International Shipping													
Distillate Fuel Oil (diesel)	49.82	50.91	51.18	51.19	51.20	51.23	51.26	51.34	51.40	51.46	51.53	51.60	51.67
Residual Oil	717.07	724.46	772.30	761.34	750.57	739.96	729.33	730.37	731.28	732.23	733.22	734.22	735.18
Total	766.89	775.37	823.49	812.53	801.78	791.20	780.60	781.71	782.68	783.69	784.75	785.82	786.84
Air Transportation													
Jet Fuel	2688.08	2614.02	2628.34	2683.31	2761.44	2870.22	2987.75	3087.25	3138.42	3198.13	3261.06	3326.35	3388.52
Aviation Gasoline	35.15	33.00	32.00	29.00	32.75	32.62	32.51	32.42	32.35	32.29	32.24	32.20	32.16
Total	2723.23	2647.02	2660.34	2712.31	2794.18	2902.83	3020.26	3119.67	3170.77	3230.42	3293.30	3358.55	3420.68
Miscellaneous Transportation													
Military Use													
Jet Fuel	531.48	543.69	561.68	585.65	582.44	572.79	564.68	559.50	557.84	558.70	560.92	563.67	566.59
Residual Fuel Oil	19.76	15.74	17.31	17.77	17.40	16.84	16.34	16.19	16.14	16.17	16.23	16.31	16.39
Distillate Fuel Oil	128.32	128.74	133.55	139.09	138.18	135.75	133.69	132.46	132.06	132.25	132.77	133.41	134.09
Total	679.56	688.17	712.55	742.52	738.03	725.39	714.71	708.15	706.03	707.12	709.92	713.39	717.07

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Bus Transportation													
Transit Bus (motor gasoline)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21
Transit Bus (diesel)	90.03	91.45	90.89	90.85	91.07	91.54	92.21	92.75	93.07	93.27	93.46	93.69	93.91
Intercity Bus (diesel)	46.88	47.62	47.33	47.31	47.43	47.67	48.02	48.31	48.48	48.58	48.69	48.81	48.93
School Bus (motor gasoline)	10.98	11.11	11.26	11.21	11.19	11.20	11.24	11.31	11.35	11.38	11.41	11.44	11.47
School Bus (diesel)	111.42	113.18	112.49	112.44	112.70	113.29	114.12	114.79	115.19	115.43	115.67	115.96	116.22
Total	259.50	263.55	262.18	262.01	262.59	263.90	265.79	267.37	268.29	268.86	269.43	270.11	270.73
Rail Transportation													
Intercity Rail (electricity)	1.37	1.45	1.52	1.60	1.59	1.54	1.49	1.45	1.41	1.38	1.35	1.32	1.30
Intercity Rail (diesel)	12.02	13.03	13.68	14.37	14.24	13.79	13.38	12.99	12.64	12.40	12.10	11.79	11.63
Transit Rail (electricity)	14.68	14.91	15.17	15.37	15.75	16.06	16.37	16.67	16.94	17.18	17.45	17.70	17.95
Commuter Rail (electricity)	4.63	4.68	4.77	4.83	4.98	5.15	5.29	5.42	5.54	5.64	5.76	5.87	5.97
Commuter Rail (diesel)	9.26	9.49	9.66	9.65	10.26	10.67	11.01	11.39	11.73	12.00	12.34	12.66	12.91
Total	41.96	43.56	44.81	45.82	46.81	47.21	47.55	47.92	48.25	48.61	48.99	49.35	49.75
Recreation Boats													
Gasoline	238.76	242.74	248.72	247.67	248.33	249.38	250.62	253.23	255.88	258.56	261.39	264.59	267.41
Distillate Fuel Oil (diesel)	197.38	200.98	205.74	204.19	203.27	202.85	202.66	203.85	205.24	206.72	208.24	210.14	211.77
Lubricants	41.39	41.76	42.98	43.48	45.06	46.53	47.96	49.38	50.64	51.84	53.15	54.45	55.64
Pipeline Fuel Natural Gas	151.00	147.00	140.00	139.00	140.61	141.72	141.81	142.17	142.71	143.18	143.60	143.92	144.13
Total	601.74	592.06	631.81	617.05	634.35	640.14	643.58	650.59	647.84	650.65	656.75	661.64	661.59
Total Miscellaneous	1972.51	1977.08	2040.06	2054.06	2070.73	2067.75	2064.07	2069.43	2069.01	2076.98	2090.08	2103.00	2110.68
Total Consumption	27899.85	28199.96	28528.24	28491.96	28651.71	28984.57	29316.75	29673.16	29918.12	30147.14	30372.11	30615.75	30778.21

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Light-Duty Vehicle														
Motor Gasoline	16139.73	15827.25	15488.16	15171.63	14707.44	14723.22	14721.14	14746.20	14774.31	14756.67	14779.00	14841.96	14845.51	-0.3%
Ethanol	478.54	742.26	971.55	1245.16	1642.66	1574.55	1521.61	1416.71	1370.87	1383.78	1365.13	1317.89	1343.05	33.5%
Compressed Natural Gas	11.52	11.36	11.19	11.03	10.94	10.90	10.88	10.91	10.94	10.98	11.03	11.08	11.13	0.5%
Liquefied Petroleum Gases	1.21	1.14	1.09	1.00	0.93	0.87	0.81	0.76	0.71	0.68	0.64	0.61	0.59	-9.9%
Electricity	0.35	0.33	0.31	0.29	0.26	0.65	0.58	0.55	0.50	0.45	0.41	0.38	0.35	-2.7%
Liquid Hydrogen	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%
Distillate Fuel Oil (diesel)	530.07	578.10	630.16	681.79	737.37	798.85	863.52	929.62	999.46	1072.79	1150.40	1232.06	1315.64	7.1%
Total	17162.14	17161.37	17103.59	17112.26	17101.19	17110.83	17120.60	17107.04	17159.33	17228.14	17309.65	17407.27	17519.79	0.3%
Commercial Light Trucks Gasoline 1/														
	635.49	633.99	631.20	630.25	628.24	627.94	627.77	627.22	629.34	631.86	634.52	638.18	643.25	0.2%
Freight Trucks 2/														
Motor Gasoline	212.95	214.49	216.07	217.89	219.08	220.69	222.15	223.28	225.24	227.31	229.29	231.38	233.75	0.1%
Distillate Fuel Oil (diesel)	5466.87	5512.09	5564.06	5617.06	5666.43	5720.00	5774.00	5830.65	5889.88	5951.23	6008.68	6063.46	6126.05	1.2%
Compressed Natural Gas	53.18	55.50	57.77	59.95	61.95	63.79	65.41	66.89	68.22	69.43	70.44	71.20	71.93	8.2%
Liquefied Petroleum Gases	12.37	12.26	12.24	12.30	12.40	12.52	12.61	12.71	12.82	12.94	13.05	13.08	13.14	1.0%
Total	5745.37	5794.34	5850.15	5907.21	5959.87	6017.00	6074.17	6133.52	6196.16	6260.92	6321.45	6379.12	6444.86	1.2%
Freight Rail 3/														
Distillate Fuel Oil (diesel)	641.35	647.08	652.89	660.38	666.09	673.52	680.52	686.54	692.71	698.90	705.90	710.83	717.57	1.0%
Total	641.35	647.08	652.89	660.38	666.09	673.52	680.52	686.54	692.71	698.90	705.90	710.83	717.57	1.0%
Domestic Shipping														
Distillate Fuel Oil (diesel)	246.62	247.22	249.04	250.62	251.52	251.47	251.99	252.14	253.15	253.96	253.64	253.25	253.55	0.5%
Residual Oil	101.29	101.53	102.29	102.94	103.31	103.30	103.51	103.58	104.00	104.34	104.21	104.05	104.18	0.5%
Total	347.91	348.75	351.33	353.55	354.84	354.77	355.50	355.72	357.15	358.30	357.84	357.31	357.73	0.5%
International Shipping														
Distillate Fuel Oil (diesel)	51.73	51.80	51.87	51.93	52.00	52.07	52.14	52.21	52.28	52.35	52.42	52.49	52.56	0.1%
Residual Oil	736.16	737.12	738.08	739.06	740.04	741.03	742.03	743.05	744.07	745.10	746.14	747.18	748.23	0.1%
Total	787.89	788.92	789.95	790.99	792.04	793.10	794.17	795.25	796.34	797.44	798.56	799.67	800.79	0.1%
Air Transportation														
Jet Fuel	3451.65	3514.31	3576.97	3639.82	3702.64	3763.88	3824.50	3885.01	3944.62	4004.56	4064.87	4124.54	4184.33	2.0%
Aviation Gasoline	32.14	32.11	32.09	32.08	32.06	32.05	32.04	32.04	32.03	32.02	32.02	32.02	32.01	-0.1%
Total	3483.79	3546.42	3609.07	3671.90	3734.70	3795.93	3856.54	3917.04	3976.65	4036.58	4096.89	4156.55	4216.34	2.0%
Miscellaneous Transportation														
Military Use														
Jet Fuel	569.61	572.62	575.63	578.60	581.56	584.51	587.41	590.30	593.16	595.97	598.76	601.51	604.23	0.4%
Residual Fuel Oil	16.48	16.56	16.65	16.74	16.82	16.90	16.99	17.07	17.15	17.23	17.31	17.39	17.47	0.4%
Distillate Fuel Oil	134.80	135.50	136.20	136.89	137.58	138.26	138.94	139.61	140.27	140.92	141.57	142.21	142.83	0.4%
Total	720.88	724.68	728.48	732.23	735.96	739.68	743.34	746.97	750.58	754.13	757.64	761.11	764.53	0.4%

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Bus Transportation														
Transit Bus (motor gasoline)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.4%
Transit Bus (diesel)	94.11	94.26	94.43	94.76	95.13	95.55	96.01	96.47	96.97	97.52	98.09	98.63	99.21	0.3%
Intercity Bus (diesel)	49.04	49.12	49.21	49.39	49.59	49.81	50.05	50.30	50.56	50.85	51.15	51.44	51.75	0.3%
School Bus (motor gasoline)	11.49	11.53	11.56	11.61	11.65	11.71	11.76	11.78	11.85	11.91	11.98	12.05	12.12	0.4%
School Bus (diesel)	116.47	116.66	116.87	117.28	117.74	118.26	118.82	119.39	120.02	120.69	121.39	122.07	122.78	0.3%
Total	271.32	271.78	272.28	273.25	274.32	275.54	276.86	278.15	279.61	281.18	282.83	284.42	286.07	0.3%
Rail Transportation														
Intercity Rail (electricity)	1.29	1.29	1.30	1.29	1.29	1.28	1.27	1.27	1.26	1.26	1.25	1.25	1.25	-0.6%
Intercity Rail (diesel)	11.55	11.59	11.67	11.58	11.53	11.47	11.40	11.34	11.29	11.24	11.21	11.20	11.17	-0.6%
Transit Rail (electricity)	18.19	18.42	18.65	18.89	19.12	19.35	19.59	19.82	20.07	20.31	20.55	20.79	21.04	1.4%
Commuter Rail (electricity)	6.07	6.15	6.24	6.34	6.43	6.52	6.61	6.70	6.79	6.88	6.97	7.06	7.15	1.8%
Commuter Rail (diesel)	13.14	13.33	13.53	13.81	14.03	14.26	14.51	14.75	14.99	15.23	15.46	15.70	15.94	2.2%
Total	50.23	50.78	51.39	51.91	52.38	52.89	53.38	53.88	54.39	54.91	55.45	56.00	56.55	1.1%
Recreation Boats														
Gasoline	213.42	215.29	216.67	218.40	219.68	221.21	222.54	223.33	224.83	226.30	227.72	229.14	230.48	0.6%
Distillate Fuel Oil (diesel)	56.82	57.93	59.07	60.31	61.48	62.67	63.86	65.03	66.24	67.46	68.70	69.93	71.16	2.2%
Lubricants	144.36	144.62	144.92	145.27	145.64	146.05	146.47	146.95	147.41	147.87	148.32	148.75	149.20	0.1%
Pipeline Fuel Natural Gas	660.73	658.64	690.07	722.86	724.34	722.36	722.42	720.50	722.14	721.91	722.70	719.31	718.48	0.8%
Total Miscellaneous	2117.75	2123.72	2162.87	2204.23	2213.81	2220.40	2228.85	2234.80	2245.20	2253.77	2263.36	2268.65	2276.47	0.6%
Total Consumption	30921.69	31044.59	31151.04	31330.77	31450.79	31593.49	31738.13	31857.14	32052.89	32265.92	32488.18	32717.59	32976.82	0.7%

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

1/ Commercial trucks from 8,500 to 10,000 pounds.

2/ Does not include military distillate. Does not include commercial buses.

3/ Does not include passenger rail.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2005 and 2006 compressed natural gas volumes: Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Other 2005 and 2006 values derived using: EIA, Annual Energy Review, 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); EIA, State Energy Data Report 2004, DOE/EIA-0214(2004) (Washington, DC, June 2007); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 and Annual (Oak Ridge, TN, 2007); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 37. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	15613.12	15743.84	15788.64	15643.91	15548.17	15465.04	15343.64	15287.93	15210.74	15088.97	14933.46	14761.27	14559.45
TDI Diesel ICE	246.77	253.63	256.72	265.92	278.34	293.58	313.77	337.36	362.67	389.75	418.55	451.37	488.52
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	350.69	380.41	436.17	495.67	565.40	656.14	767.86	896.80	1034.60	1189.79	1335.95	1501.81	1645.43
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Alcohol	350.69	380.41	436.17	495.67	565.40	656.14	767.86	896.80	1034.60	1189.79	1335.95	1501.81	1645.43
Natural Gas Technology													
Compressed Natural Gas ICE	2.85	3.14	3.30	3.42	3.45	3.53	3.57	3.58	3.57	3.54	3.48	3.42	3.36
Compressed Natural Gas Bi-fuel	5.86	6.75	7.32	7.78	8.04	8.33	8.54	8.64	8.69	8.67	8.58	8.47	8.37
Liquefied Petroleum Gases ICE	2.01	1.90	1.78	1.63	1.47	1.33	1.20	1.08	0.98	0.89	0.83	0.77	0.72
Liquefied Petroleum Gases Bi-fuel	10.42	10.14	9.26	8.13	7.22	6.09	5.34	4.61	3.99	3.50	3.10	2.76	2.48
Total Natural Gas Technology	21.14	21.93	21.67	20.95	20.18	19.27	18.66	17.90	17.23	16.60	15.98	15.42	14.93
Electric Technology													
Electric Vehicle	0.70	0.68	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.43	0.41	0.38	0.37
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.10
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.07	0.16	0.24	0.31	0.39	0.48
Electric-Gasoline Hybrid	11.44	25.00	41.27	60.54	81.85	106.56	136.94	173.84	215.85	261.65	315.87	376.33	443.08
Total Electricity	12.15	25.68	41.91	61.14	82.42	107.14	137.51	174.41	216.49	262.35	316.63	377.18	444.03
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49
Total Fuel Cell	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	15966.23	16134.44	16246.66	16176.08	16172.91	16204.86	16225.82	16336.46	16439.09	16478.04	16394.23	16349.91	16250.01
Distillate Fuel Oil (diesel)	246.77	253.63	256.72	265.92	278.34	293.58	313.77	337.36	362.67	389.75	418.55	451.37	488.52
Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol	1.06	1.31	1.74	3.62	2.31	2.72	3.65	4.20	4.39	45.24	178.41	277.62	389.29
Compressed Natural Gas	6.88	9.87	10.62	11.20	11.49	11.86	12.11	12.21	12.24	12.20	12.04	11.85	11.69
Liquefied Petroleum Gases	5.15	7.26	6.88	8.79	4.63	2.94	2.60	2.26	1.98	1.78	1.59	1.43	1.32
Electricity	0.70	0.68	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.44	0.41	0.38	0.37
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49

Table 37. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Light-Duty Consumption by Technology Type														
Conventional Vehicles 1/														
Gasoline ICE Vehicles	14321.61	14039.31	13725.41	13446.11	13179.44	12943.43	12730.73	12532.61	12361.13	12210.49	12079.83	11970.28	11881.56	-1.2%
TDI Diesel ICE	530.07	578.10	630.16	681.79	737.37	798.85	863.52	929.62	999.46	1072.79	1150.40	1232.06	1315.64	7.1%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	1787.58	1941.74	2060.53	2211.50	2321.09	2421.49	2493.26	2522.42	2593.82	2657.84	2712.25	2759.90	2799.89	8.7%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Alcohol	1787.58	1941.74	2060.53	2211.50	2321.09	2421.49	2493.26	2522.42	2593.82	2657.84	2712.25	2759.90	2799.89	8.7%
Natural Gas Technology														
Compressed Natural Gas ICE	3.30	3.23	3.17	3.12	3.09	3.07	3.07	3.07	3.08	3.09	3.10	3.12	3.13	0.0%
Compressed Natural Gas Bi-fuel	8.25	8.13	8.02	7.91	7.85	7.83	7.82	7.84	7.87	7.90	7.93	7.97	8.01	0.7%
Liquefied Petroleum Gases ICE	0.68	0.66	0.62	0.59	0.56	0.53	0.51	0.49	0.47	0.46	0.44	0.43	0.42	-6.1%
Liquefied Petroleum Gases Bi-fuel	2.19	1.95	1.81	1.62	1.46	1.31	1.18	1.06	0.96	0.87	0.79	0.72	0.66	-10.8%
Total Natural Gas Technology	14.42	13.98	13.63	13.25	12.95	12.74	12.58	12.46	12.38	12.31	12.26	12.23	12.22	-2.4%
Electric Technology														
Electric Vehicle	0.35	0.32	0.30	0.28	0.25	0.63	0.57	0.53	0.48	0.43	0.39	0.35	0.32	-3.1%
Plug-in Gasoline Hybrid	0.12	0.14	0.17	0.20	0.24	0.28	0.32	0.37	0.42	0.48	0.55	0.63	0.72	--
Electric-Diesel Hybrid	0.56	0.63	0.70	0.76	0.82	0.88	0.93	0.98	1.03	1.07	1.11	1.14	1.17	--
Electric-Gasoline Hybrid	516.04	595.33	677.93	762.89	847.77	933.08	1018.44	1102.58	1185.88	1267.90	1348.03	1426.24	1502.95	18.6%
Total Electricity	517.07	596.42	679.10	764.13	849.08	934.87	1020.26	1104.46	1187.81	1269.88	1350.07	1428.36	1505.16	18.5%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%
Total Fuel Cell	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%
Light-Duty Consumption by Fuel Type 1/														
Motor Gasoline	16139.73	15827.25	15488.16	15171.63	14707.44	14723.22	14721.14	14746.20	14774.31	14756.67	14779.00	14841.96	14845.51	-0.3%
Distillate Fuel Oil (diesel)	530.07	578.10	630.16	681.79	737.37	798.85	863.52	929.62	999.46	1072.79	1150.40	1232.06	1315.64	7.1%
Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol	478.54	742.26	971.55	1245.16	1642.66	1574.55	1521.61	1416.71	1370.87	1383.78	1365.13	1317.89	1343.05	33.5%
Compressed Natural Gas	11.52	11.36	11.19	11.03	10.94	10.90	10.88	10.91	10.94	10.98	11.03	11.08	11.13	0.5%
Liquefied Petroleum Gases	1.21	1.14	1.09	1.00	0.93	0.87	0.81	0.76	0.71	0.68	0.64	0.61	0.59	-9.9%
Electricity	0.35	0.33	0.31	0.29	0.26	0.65	0.58	0.55	0.50	0.45	0.41	0.38	0.35	-2.7%
Liquid Hydrogen	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%

Table 37. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (trillion Btu)

1/ Includes personal vehicles and fleet vehicles. Includes both cars and trucks.

Btu = British thermal unit.

ICE = Internal combustion engine.

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	324.4	334.0	333.2	332.5	335.2	343.8	352.0	355.0	348.8	334.1	322.9	315.0	300.9
TDI Diesel ICE	1.9	2.4	3.6	4.1	3.6	4.0	4.8	5.5	6.1	6.4	6.8	7.3	7.8
Total Conventional	326.4	336.4	336.8	336.6	338.8	347.8	356.8	360.5	354.8	340.5	329.7	322.3	308.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	5.9	6.6	12.2	12.6	16.4	18.5	21.9	24.9	27.1	34.3	35.3	33.1	38.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Electric-Gasoline Hybrid	7.6	9.0	12.5	12.1	14.2	15.7	19.3	22.5	25.0	27.2	29.8	32.3	35.3
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.4	0.4
Total Alternatives	13.6	15.8	24.9	24.9	30.9	34.4	41.3	47.7	52.5	61.9	65.7	66.1	74.7
Percent Alternative Car Sales	4.00	4.48	6.88	6.89	8.35	9.01	10.39	11.69	12.90	15.38	16.61	17.02	19.48
Total New Car Sales	340.0	352.2	361.7	361.5	369.6	382.3	398.1	408.2	407.4	402.4	395.4	388.4	383.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	341.3	323.7	290.6	256.1	263.5	275.5	281.2	281.1	275.5	249.5	245.2	251.0	229.1
TDI Diesel ICE	11.7	13.4	14.4	15.5	13.8	17.3	22.1	25.1	27.1	27.4	29.5	34.6	36.1
Total Conventional	353.0	337.1	305.1	271.6	277.2	292.9	303.3	306.2	302.6	276.8	274.7	285.6	265.2

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.1	14.0	28.7	32.7	41.5	55.1	70.4	82.6	91.9	114.5	116.2	107.6	120.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	3.7	4.7	4.8	8.9	9.1	11.7	15.3	19.4	23.3	26.0	34.2	40.5	44.7
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Total Alternatives	18.1	19.1	33.8	41.9	51.0	67.2	86.0	102.5	115.6	140.9	150.9	148.5	165.5
Percent Alternative L.T. Sales	4.88	5.35	9.99	13.37	15.53	18.66	22.10	25.08	27.64	33.73	35.46	34.21	38.43
Total New Truck Sales	371.1	356.1	338.9	313.5	328.2	360.1	389.4	408.7	418.2	417.7	425.6	434.0	430.7
Percent Total Alternative Sales	4.46	4.92	8.38	9.90	11.72	13.69	16.18	18.39	20.36	24.72	26.38	26.09	29.50
EPACT Legislative Alternative Sales	1.62	1.70	1.62	1.51	1.53	1.58	1.63	1.66	1.67	1.66	1.65	1.63	1.62
ZEVP Legislative Alternative Sales	9.16	9.19	8.81	9.31	12.36	14.00	15.89	24.22	24.24	23.86	44.92	44.20	43.06
Total Vehicles Sales	711.0	708.3	700.6	675.0	697.8	742.3	787.5	816.9	825.5	820.1	821.0	822.5	814.1

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	293.1	291.3	288.5	284.0	288.3	292.3	295.1	295.5	298.1	299.2	300.2	301.4	302.4	-0.4%
TDI Diesel ICE	8.8	10.2	11.6	11.6	12.6	13.6	14.5	15.3	16.2	17.2	18.6	19.9	21.3	9.4%
Total Conventional	301.9	301.5	300.0	295.5	300.9	305.9	309.6	310.8	314.3	316.5	318.8	321.3	323.7	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	40.4	38.7	43.6	47.7	45.4	43.4	41.8	43.3	42.5	42.5	42.5	42.3	42.8	8.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	39.5	44.0	47.2	47.7	48.7	49.7	50.6	51.2	52.1	52.8	53.6	54.4	55.2	7.9%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	85.6%
Total Alternatives	81.0	83.8	91.9	96.5	95.3	94.3	93.6	95.8	95.8	96.7	97.4	98.0	99.3	8.0%
Percent Alternative Car Sales	21.16	21.75	23.45	24.61	24.05	23.56	23.22	23.56	23.36	23.40	23.41	23.36	23.48	7.1%
Total New Car Sales	382.9	385.3	391.9	392.0	396.2	400.2	403.2	406.6	410.1	413.1	416.2	419.3	423.0	0.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	216.7	211.8	195.0	188.8	190.6	192.9	194.7	191.6	192.4	191.6	189.5	187.8	185.9	-2.3%
TDI Diesel ICE	40.6	48.5	53.0	51.4	56.6	60.8	64.8	67.1	70.7	74.4	79.2	83.8	88.0	8.2%
Total Conventional	257.3	260.3	248.0	240.2	247.2	253.7	259.5	258.7	263.1	266.0	268.7	271.6	273.8	-0.9%

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	116.8	101.8	100.8	113.5	104.4	96.8	91.7	93.8	90.4	89.4	87.4	85.0	84.6	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	49.7	56.2	60.5	61.8	62.7	63.4	64.2	64.2	65.0	65.6	65.9	66.2	66.6	11.7%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.9%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.4%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	25.1%
Total Alternatives	167.1	158.5	161.7	175.8	167.7	160.7	156.5	158.6	156.1	155.6	154.0	151.9	151.9	9.0%
Percent Alternative L.T. Sales	39.37	37.85	39.48	42.27	40.41	38.78	37.62	38.02	37.23	36.91	36.43	35.87	35.68	8.2%
Total New Truck Sales	424.4	418.8	409.7	416.0	414.9	414.5	416.1	417.3	419.3	421.7	422.7	423.5	425.8	0.7%
Percent Total Alternative Sales	30.73	30.14	31.64	33.70	32.42	31.30	30.53	30.88	30.37	30.23	29.97	29.65	29.60	7.8%
EPACT Legislative Alternative Sales	1.60	1.60	1.60	1.61	1.62	1.63	1.64	1.64	1.65	1.67	1.67	1.68	1.69	0.0%
ZEVP Legislative Alternative Sales	65.07	64.65	64.18	67.73	67.34	66.90	74.70	74.44	75.32	79.33	80.15	80.95	82.36	9.6%
Total Vehicles Sales	807.3	804.1	801.7	808.0	811.1	814.6	819.3	823.9	829.3	834.8	838.9	842.8	848.8	0.8%

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1038.5	1039.6	1013.3	991.1	979.3	994.0	1006.0	1004.5	978.4	942.7	903.3	866.7	834.7
TDI Diesel ICE	6.9	8.7	12.6	14.2	13.5	12.5	14.7	16.9	18.5	19.7	20.7	21.9	23.6
Total Conventional	1045.5	1048.4	1025.8	1005.3	992.8	1006.5	1020.7	1021.4	996.9	962.3	923.9	888.6	858.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	18.8	20.5	37.0	37.5	48.0	53.5	62.4	70.5	75.9	82.1	86.8	91.0	94.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.3	0.3	0.3	0.3
Electric-Gasoline Hybrid	24.1	28.1	38.1	36.2	42.6	45.4	55.0	63.8	70.1	76.3	82.9	88.8	97.4
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.6	0.6
Total Alternatives	43.4	49.1	75.7	74.3	91.2	99.6	118.1	135.0	147.2	159.5	171.1	181.4	192.9
Percent Alternative Car Sales	3.99	4.48	6.87	6.88	8.42	9.00	10.37	11.68	12.87	14.22	15.63	16.95	18.35
Total New Car Sales	1088.9	1097.5	1101.5	1079.7	1084.1	1106.1	1138.8	1156.4	1144.1	1121.8	1095.1	1070.0	1051.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1088.8	1002.3	878.5	757.6	759.3	793.9	801.0	792.5	769.3	729.0	703.9	686.7	652.3
TDI Diesel ICE	42.1	48.5	51.3	54.6	55.8	54.5	68.1	76.8	82.7	88.6	93.5	103.1	113.6
Total Conventional	1131.0	1050.8	929.8	812.3	815.0	848.4	869.1	869.4	851.9	817.6	797.3	789.8	765.9

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	44.8	43.3	86.7	96.6	119.3	158.6	200.2	232.5	256.2	271.5	283.8	293.7	289.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	11.9	14.6	14.6	26.6	27.2	33.9	43.7	54.9	65.4	74.3	96.6	111.1	124.9
Compressed Natural Gas ICE	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.2
Total Alternatives	57.6	59.0	102.3	124.1	147.5	193.4	244.8	288.5	322.5	346.7	381.4	405.8	415.0
Percent Alternative L.T. Sales	4.85	5.31	9.91	13.25	15.32	18.57	21.98	24.92	27.46	29.78	32.36	33.94	35.14
Total New Truck Sales	1188.6	1109.7	1032.0	936.3	962.5	1041.8	1113.9	1157.8	1174.4	1164.3	1178.7	1195.6	1180.9
Percent Total Alternative Sales	4.44	4.90	8.34	9.84	11.66	13.64	16.11	18.30	20.26	22.14	24.30	25.92	27.23
EPACT Legislative Alternative Sales	5.19	5.30	4.94	4.51	4.47	4.57	4.67	4.71	4.70	4.63	4.58	4.50	4.43
Z EVP Legislative Alternative Sales	12.98	13.18	12.79	12.36	16.85	19.43	22.45	34.77	37.71	37.09	69.59	68.26	66.46
Total Vehicles Sales	2277.5	2207.3	2133.6	2016.0	2046.6	2147.9	2252.8	2314.2	2318.5	2286.2	2273.8	2265.6	2232.1

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	811.2	797.3	780.2	772.5	781.1	790.2	796.8	801.9	805.2	807.0	808.5	810.2	812.7	-1.0%
TDI Diesel ICE	26.5	30.2	33.5	34.1	37.0	39.6	42.2	44.6	47.0	49.9	53.2	56.3	59.7	8.3%
Total Conventional	837.7	827.4	813.6	806.6	818.1	829.8	838.9	846.5	852.2	856.9	861.7	866.5	872.4	-0.8%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	97.3	99.1	120.3	123.0	117.9	112.4	107.4	105.2	105.4	105.8	106.0	106.2	106.8	7.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	--
Electric-Diesel Hybrid	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	108.6	120.0	127.6	129.3	131.7	134.1	136.2	138.3	140.1	141.9	143.7	145.6	147.7	7.2%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.1%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	1.3	1.3	1.2	1.3	1.3	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	85.9%
Total Alternatives	208.1	221.3	250.1	254.5	251.8	248.7	245.9	245.8	247.9	250.1	252.2	254.3	257.1	7.1%
Percent Alternative Car Sales	19.89	21.10	23.51	23.99	23.53	23.06	22.67	22.50	22.53	22.59	22.64	22.69	22.76	7.0%
Total New Car Sales	1045.8	1048.7	1063.7	1061.1	1069.8	1078.5	1084.8	1092.3	1100.1	1107.0	1113.9	1120.8	1129.5	0.1%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	615.9	582.8	520.7	515.3	516.2	520.2	524.7	524.6	521.8	517.7	511.3	505.7	501.2	-2.8%
TDI Diesel ICE	126.8	145.4	151.3	153.1	166.9	178.5	189.7	199.3	207.2	217.5	228.6	238.0	248.6	7.0%
Total Conventional	742.7	728.3	672.0	668.4	683.0	698.7	714.4	723.9	729.0	735.3	739.9	743.7	749.8	-1.4%

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	276.4	256.7	276.3	288.4	266.6	246.2	230.9	221.6	219.2	216.7	212.9	209.4	206.9	6.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.6%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	138.6	153.8	162.5	168.1	169.5	170.8	172.7	174.2	175.2	176.4	176.9	177.5	178.6	11.0%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.5%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-1.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.6%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	25.6%
Total Alternatives	416.3	411.7	439.9	457.6	437.3	418.2	404.9	397.1	395.8	394.5	391.2	388.3	387.0	8.2%
Percent Alternative L.T. Sales	35.92	36.11	39.56	40.64	39.03	37.44	36.18	35.42	35.19	34.92	34.59	34.30	34.04	8.0%
Total New Truck Sales	1159.0	1140.0	1111.9	1126.0	1120.4	1117.0	1119.3	1121.0	1124.8	1129.8	1131.1	1132.0	1136.8	0.1%
Percent Total Alternative Sales	28.32	28.92	31.71	32.56	31.46	30.38	29.53	29.05	28.93	28.82	28.66	28.53	28.42	7.6%
EPACT Legislative Alternative Sales	4.38	4.36	4.35	4.36	4.37	4.38	4.40	4.42	4.44	4.46	4.48	4.49	4.52	-0.7%
Z EVP Legislative Alternative Sales	100.57	100.09	99.70	105.08	104.59	104.01	116.17	115.82	117.23	123.49	124.82	126.13	128.36	9.9%
Total Vehicles Sales	2204.8	2188.7	2175.6	2187.1	2190.2	2195.4	2204.2	2213.3	2224.9	2236.7	2245.0	2252.9	2266.3	0.1%

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1192.5	1185.4	1148.7	1118.2	1099.5	1110.3	1120.5	1115.5	1084.2	1043.1	998.8	957.5	900.0
TDI Diesel ICE	8.2	9.5	13.6	15.2	15.0	14.8	16.9	19.9	22.0	23.3	24.4	25.9	26.9
Total Conventional	1200.7	1194.9	1162.3	1133.3	1114.5	1125.1	1137.4	1135.3	1106.2	1066.3	1023.2	983.4	926.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	21.5	23.4	42.0	42.3	53.9	59.8	69.5	78.3	84.1	90.7	95.9	100.4	127.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.4	0.3	0.4	0.3
Electric-Gasoline Hybrid	27.5	31.6	42.6	40.3	47.2	50.5	61.0	70.6	77.5	84.3	91.5	98.0	105.9
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	49.7	55.6	85.2	83.2	101.8	111.0	131.3	149.7	162.7	176.1	188.4	199.5	234.6
Percent Alternative Car Sales	3.98	4.45	6.83	6.84	8.37	8.98	10.35	11.65	12.83	14.17	15.55	16.87	20.20
Total New Car Sales	1250.4	1250.5	1247.4	1216.5	1216.3	1236.2	1268.7	1285.1	1268.9	1242.4	1211.6	1183.0	1161.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1249.3	1145.6	998.7	858.1	853.6	884.1	890.6	877.1	848.2	802.5	773.9	753.7	658.7
TDI Diesel ICE	49.6	51.7	54.1	57.0	61.3	65.3	78.7	91.2	99.2	105.9	111.6	123.4	121.8
Total Conventional	1298.9	1197.3	1052.8	915.1	914.8	949.3	969.3	968.2	947.4	908.4	885.5	877.1	780.5

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	51.3	49.5	98.5	109.4	134.1	176.5	222.4	256.9	282.1	298.4	311.4	321.6	391.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	13.5	16.4	16.3	29.6	30.2	37.7	48.4	60.7	72.1	81.9	106.3	122.3	131.6
Compressed Natural Gas ICE	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.7	0.8	0.7	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	66.0	67.1	115.9	139.9	165.2	215.0	271.7	318.4	355.1	381.1	418.6	444.8	524.4
Percent Alternative L.T. Sales	4.83	5.31	9.92	13.26	15.29	18.47	21.89	24.75	27.26	29.56	32.10	33.65	40.19
Total New Truck Sales	1364.9	1264.5	1168.7	1055.0	1080.0	1164.3	1241.0	1286.7	1302.5	1289.5	1304.2	1321.8	1304.9
Percent Total Alternative Sales	4.42	4.88	8.32	9.82	11.63	13.58	16.06	18.20	20.14	22.01	24.13	25.72	30.77
EPACT Legislative Alternative Sales	5.96	6.04	5.59	5.08	5.02	5.11	5.20	5.24	5.22	5.13	5.07	4.98	4.90
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	2615.3	2515.0	2416.2	2271.5	2296.3	2400.5	2509.7	2571.7	2571.4	2532.0	2515.8	2504.8	2466.4

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	873.2	865.6	852.1	843.8	848.5	859.9	868.1	867.5	873.9	876.2	878.3	881.0	882.8	-1.2%
TDI Diesel ICE	30.2	34.7	39.0	39.2	41.6	44.8	47.7	50.3	53.3	56.5	60.3	64.1	67.4	8.5%
Total Conventional	903.3	900.3	891.2	883.1	890.1	904.6	915.7	917.8	927.2	932.7	938.6	945.1	950.2	-1.0%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	132.6	125.3	141.6	145.1	146.0	138.5	132.2	136.8	133.6	133.8	133.5	132.3	134.3	7.6%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	--
Electric-Diesel Hybrid	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	117.9	130.9	139.8	141.4	143.4	146.1	148.5	150.2	152.6	154.5	156.6	158.8	161.0	7.0%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.3%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.3%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	251.5	257.1	282.4	287.5	290.4	285.6	281.8	288.1	287.3	289.4	291.2	292.3	296.6	7.2%
Percent Alternative Car Sales	21.78	22.22	24.06	24.56	24.60	24.00	23.53	23.89	23.66	23.68	23.68	23.62	23.79	7.2%
Total New Car Sales	1154.8	1157.5	1173.6	1170.5	1180.5	1190.3	1197.5	1205.9	1214.5	1222.2	1229.8	1237.4	1246.8	0.0%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	619.9	605.3	552.8	547.7	541.0	548.0	554.2	544.0	545.9	542.7	537.0	532.4	527.4	-3.2%
TDI Diesel ICE	135.4	161.6	174.0	173.1	180.7	195.3	208.4	215.1	226.9	238.1	250.8	263.4	272.1	7.2%
Total Conventional	755.3	766.9	726.8	720.8	721.7	743.3	762.7	759.1	772.8	780.8	787.8	795.7	799.5	-1.7%

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	377.9	326.1	323.5	339.1	332.5	305.5	286.6	292.3	280.7	276.9	270.6	262.7	263.0	7.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.7%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	145.7	164.3	175.5	181.4	181.2	183.1	185.5	185.3	187.3	188.7	189.4	190.3	191.5	10.8%
Compressed Natural Gas ICE	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.7%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-1.7%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.5%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3%
Total Alternatives	524.5	491.3	499.9	521.4	514.6	489.4	472.9	478.4	469.0	466.6	461.0	454.0	455.4	8.3%
Percent Alternative L.T. Sales	40.98	39.05	40.75	41.97	41.62	39.70	38.28	38.66	37.77	37.41	36.91	36.33	36.29	8.3%
Total New Truck Sales	1279.9	1258.2	1226.7	1242.2	1236.3	1232.7	1235.6	1237.5	1241.7	1247.4	1248.8	1249.7	1254.9	0.0%
Percent Total Alternative Sales	31.87	30.98	32.59	33.52	33.31	31.99	31.02	31.37	30.79	30.61	30.35	30.01	30.06	7.9%
EPACT Legislative Alternative Sales	4.84	4.81	4.80	4.81	4.82	4.84	4.86	4.88	4.90	4.93	4.94	4.96	4.99	-0.8%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	2434.7	2415.7	2400.3	2412.7	2416.8	2423.0	2433.1	2443.4	2456.3	2469.5	2478.6	2487.1	2501.7	0.0%

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	458.6	466.3	460.3	455.1	452.0	461.4	469.9	471.4	461.4	446.5	419.3	404.9	389.2
TDI Diesel ICE	3.2	3.4	4.9	5.5	6.5	6.3	7.2	8.6	9.5	10.2	10.4	11.1	12.2
Total Conventional	461.8	469.7	465.2	460.6	458.4	467.7	477.1	480.0	470.9	456.7	429.6	415.9	401.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	8.3	9.2	16.8	17.2	22.2	24.8	29.2	33.1	35.8	38.8	52.8	53.5	56.8
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.1	0.2	0.1
Electric-Gasoline Hybrid	10.5	12.3	16.9	16.2	19.4	20.9	25.5	29.8	32.9	36.0	38.7	41.7	45.8
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	19.1	21.8	34.0	33.7	41.9	46.1	55.0	63.2	69.2	75.3	91.9	95.7	103.0
Percent Alternative Car Sales	3.97	4.43	6.81	6.82	8.37	8.97	10.34	11.64	12.81	14.16	17.63	18.71	20.43
Total New Car Sales	480.9	491.4	499.2	494.3	500.3	513.8	532.2	543.2	540.1	532.0	521.6	511.6	504.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	480.3	452.6	402.2	351.7	349.8	366.9	373.0	370.1	360.4	343.0	303.0	299.8	281.8
TDI Diesel ICE	19.2	17.9	18.8	19.8	26.7	27.9	33.8	39.5	43.1	46.4	43.5	49.1	54.4
Total Conventional	499.5	470.4	421.0	371.5	376.5	394.8	406.8	409.6	403.6	389.4	346.5	348.9	336.2

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	19.7	19.6	39.7	44.9	54.9	73.2	93.1	108.4	119.8	127.5	171.1	171.9	173.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	5.2	6.4	6.5	12.0	12.4	15.6	20.3	25.6	30.6	35.0	43.5	50.5	56.6
Compressed Natural Gas ICE	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	25.3	26.5	46.6	57.2	67.7	89.2	113.7	134.3	150.8	162.8	214.9	222.8	230.4
Percent Alternative L.T. Sales	4.83	5.33	9.97	13.34	15.24	18.43	21.85	24.69	27.20	29.48	38.28	38.97	40.67
Total New Truck Sales	524.9	496.9	467.7	428.7	444.2	484.0	520.5	543.9	554.4	552.2	561.4	571.7	566.6
Percent Total Alternative Sales	4.42	4.88	8.34	9.85	11.60	13.56	16.03	18.17	20.10	21.96	28.34	29.40	31.14
EPACT Legislative Alternative Sales	2.29	2.37	2.24	2.06	2.07	2.12	2.18	2.21	2.22	2.20	2.18	2.15	2.13
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1005.7	988.3	966.8	923.0	944.5	997.8	1052.7	1087.1	1094.5	1084.2	1083.0	1083.4	1070.9

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	378.9	377.1	371.7	370.8	373.9	379.0	383.5	383.9	387.6	389.4	391.0	392.8	394.2	-0.7%
TDI Diesel ICE	13.7	15.8	17.8	18.0	19.2	20.6	22.0	23.3	24.7	26.3	28.1	29.9	31.5	9.7%
Total Conventional	392.5	392.9	389.5	388.9	393.0	399.6	405.5	407.2	412.4	415.6	419.1	422.7	425.7	-0.4%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	59.1	55.8	63.9	63.6	64.2	62.0	59.3	61.6	60.2	60.4	60.4	60.0	61.0	8.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	51.2	57.0	61.0	62.1	63.1	64.4	65.6	66.5	67.7	68.7	69.7	70.8	71.9	7.6%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2%
Compressed Natural Gas Bi-fuel	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	110.7	113.3	125.3	126.1	127.8	126.9	125.4	128.6	128.4	129.6	130.6	131.4	133.5	7.8%
Percent Alternative Car Sales	22.00	22.38	24.34	24.49	24.53	24.10	23.62	24.00	23.74	23.77	23.76	23.71	23.87	7.3%
Total New Car Sales	503.3	506.2	514.8	515.0	520.8	526.4	530.9	535.8	540.8	545.2	549.7	554.0	559.2	0.5%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	266.0	261.0	238.0	239.5	237.2	239.3	242.5	238.4	239.8	238.8	236.7	234.9	233.0	-2.7%
TDI Diesel ICE	60.8	73.0	78.3	79.5	83.2	89.4	95.6	98.8	104.4	109.7	115.8	121.7	126.0	8.5%
Total Conventional	326.8	334.0	316.4	319.1	320.4	328.7	338.1	337.2	344.2	348.5	352.4	356.6	359.0	-1.1%

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	167.7	144.7	145.3	147.7	145.1	135.9	127.8	130.7	125.6	124.1	121.4	118.2	118.4	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	62.9	71.2	76.1	79.4	79.5	80.3	81.5	81.6	82.7	83.4	83.9	84.4	85.0	11.4%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-1.1%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.2%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.2%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0%
Total Alternatives	231.0	216.2	221.8	227.5	225.0	216.6	209.7	212.7	208.7	208.0	205.7	203.0	203.8	8.9%
Percent Alternative L.T. Sales	41.41	39.30	41.21	41.62	41.26	39.72	38.28	38.68	37.74	37.37	36.86	36.27	36.22	8.3%
Total New Truck Sales	557.8	550.2	538.2	546.5	545.4	545.2	547.8	549.9	552.9	556.5	558.2	559.6	562.8	0.5%
Percent Total Alternative Sales	32.20	31.19	32.96	33.31	33.09	32.04	31.07	31.43	30.82	30.64	30.36	30.02	30.06	7.9%
EPACT Legislative Alternative Sales	2.11	2.10	2.10	2.12	2.13	2.14	2.15	2.17	2.18	2.20	2.21	2.22	2.24	-0.2%
Z EVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	1061.0	1056.4	1053.0	1061.5	1066.2	1071.7	1078.7	1085.6	1093.6	1101.7	1107.8	1113.6	1122.0	0.5%

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1499.9	1498.5	1460.6	1424.3	1414.9	1435.2	1461.5	1468.5	1439.5	1396.6	1348.8	1304.6	1267.6
TDI Diesel ICE	9.4	11.4	16.3	18.1	18.7	19.2	20.4	24.2	27.0	28.9	30.7	32.9	35.8
Total Conventional	1509.3	1509.8	1476.9	1442.4	1433.6	1454.4	1481.9	1492.7	1466.5	1425.4	1379.5	1337.6	1303.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	27.1	29.5	53.3	60.7	69.4	79.0	92.9	103.3	111.7	121.6	129.7	137.1	142.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.5	0.5	0.4	0.5	0.4
Electric-Gasoline Hybrid	34.0	39.4	53.4	50.6	60.2	65.0	78.3	91.5	101.3	111.1	121.8	131.7	145.8
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	61.9	69.8	107.6	112.1	130.4	145.0	172.2	195.8	214.4	234.1	252.8	270.2	290.1
Percent Alternative Car Sales	3.94	4.42	6.79	7.21	8.34	9.07	10.41	11.60	12.76	14.11	15.49	16.81	18.20
Total New Car Sales	1571.2	1579.6	1584.5	1554.5	1564.0	1599.4	1654.1	1688.5	1680.9	1659.6	1632.2	1607.8	1593.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1576.5	1451.3	1273.2	1079.7	1100.4	1138.1	1162.6	1160.7	1132.8	1081.1	1051.7	1034.0	991.0
TDI Diesel ICE	55.7	61.2	63.9	65.4	75.7	84.5	92.3	109.1	119.8	129.5	138.4	154.8	172.3
Total Conventional	1632.2	1512.5	1337.1	1145.0	1176.2	1222.6	1254.9	1269.8	1252.6	1210.6	1190.1	1188.8	1163.3

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	64.8	62.7	125.6	165.1	172.9	234.4	299.8	341.1	377.2	402.5	423.8	441.9	438.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	16.7	20.5	20.5	36.9	38.4	48.4	62.1	78.6	94.4	108.2	141.8	164.7	186.9
Compressed Natural Gas ICE	0.4	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Compressed Natural Gas Bi-fuel	0.9	1.0	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	82.9	84.7	147.4	203.1	212.5	283.9	363.1	420.8	472.8	511.9	566.8	607.8	626.9
Percent Alternative L.T. Sales	4.83	5.30	9.93	15.06	15.30	18.84	22.44	24.89	27.40	29.72	32.26	33.83	35.02
Total New Truck Sales	1715.1	1597.2	1484.5	1348.1	1388.7	1506.5	1617.9	1690.6	1725.4	1722.5	1757.0	1796.6	1790.2
Percent Total Alternative Sales	4.40	4.86	8.31	10.86	11.61	13.81	16.36	18.25	20.18	22.06	24.18	25.79	27.10
EPACT Legislative Alternative Sales	7.49	7.63	7.10	6.49	6.46	6.61	6.79	6.88	6.91	6.85	6.83	6.77	6.72
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	3286.2	3176.9	3069.0	2902.7	2952.7	3105.9	3272.0	3379.2	3406.4	3382.0	3389.2	3404.3	3383.7

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1244.1	1234.3	1240.0	1218.2	1246.3	1284.8	1302.5	1319.9	1338.7	1355.5	1371.6	1387.9	1406.4	-0.3%
TDI Diesel ICE	40.7	46.8	53.9	53.5	57.8	63.5	67.8	72.5	77.3	82.7	89.0	95.4	101.5	9.5%
Total Conventional	1284.8	1281.1	1294.0	1271.7	1304.1	1348.3	1370.3	1392.4	1416.0	1438.2	1460.6	1483.3	1507.9	0.0%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	149.2	153.3	163.5	195.8	188.7	168.8	170.0	172.9	175.0	177.4	179.6	181.7	184.6	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Plug-in Gasoline Hybrid	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	--
Electric-Diesel Hybrid	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	--
Electric-Gasoline Hybrid	164.2	183.3	198.9	201.0	206.8	213.9	218.7	224.0	229.4	234.6	240.0	245.6	251.7	8.0%
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	314.7	337.9	363.8	398.3	396.9	384.1	390.3	398.5	406.0	413.6	421.3	429.1	438.2	8.0%
Percent Alternative Car Sales	19.68	20.87	21.94	23.85	23.33	22.17	22.17	22.25	22.28	22.34	22.39	22.44	22.52	7.0%
Total New Car Sales	1599.5	1619.0	1657.7	1670.0	1701.0	1732.4	1760.5	1790.9	1822.0	1851.8	1882.0	1912.4	1946.1	0.9%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	944.2	902.1	853.7	811.3	826.1	861.6	865.9	866.2	870.1	872.9	870.8	869.0	871.8	-2.1%
TDI Diesel ICE	194.7	225.1	254.0	238.6	258.5	289.7	305.2	322.4	339.1	358.8	381.0	402.0	421.0	8.4%
Total Conventional	1138.9	1127.3	1107.8	1049.8	1084.7	1151.3	1171.1	1188.6	1209.2	1231.7	1251.7	1271.0	1292.7	-0.7%

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	423.2	396.8	367.1	460.3	429.4	367.2	365.8	365.7	365.3	365.1	362.3	359.6	359.8	7.6%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	209.4	234.6	256.8	260.8	266.0	274.4	278.3	282.3	286.9	291.8	295.6	299.4	304.7	11.9%
Compressed Natural Gas ICE	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.8%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	-0.8%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	-1.6%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7%
Total Alternatives	633.8	632.7	625.1	722.3	696.7	642.9	645.4	649.3	653.6	658.3	659.3	660.5	666.0	9.0%
Percent Alternative L.T. Sales	35.75	35.95	36.07	40.76	39.11	35.83	35.53	35.33	35.09	34.83	34.50	34.19	34.00	8.0%
Total New Truck Sales	1772.8	1759.9	1732.9	1772.2	1781.4	1794.2	1816.5	1837.9	1862.8	1890.0	1911.1	1931.5	1958.8	0.9%
Percent Total Alternative Sales	28.13	28.72	29.16	32.55	31.40	29.12	28.95	28.87	28.76	28.65	28.49	28.34	28.28	7.6%
EPACT Legislative Alternative Sales	6.70	6.72	6.78	6.86	6.95	7.04	7.14	7.24	7.35	7.46	7.57	7.67	7.79	0.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	3372.3	3379.0	3390.6	3442.1	3482.4	3526.6	3577.1	3628.8	3684.8	3741.8	3793.1	3843.9	3904.9	0.9%

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	383.9	390.6	386.0	382.1	380.8	388.7	397.4	399.5	391.8	379.9	366.3	353.4	342.0
TDI Diesel ICE	2.6	3.0	4.3	4.9	5.0	5.2	5.5	6.5	7.2	7.8	8.2	8.8	9.8
Total Conventional	386.4	393.5	390.4	387.0	385.8	393.9	402.8	406.0	399.0	387.6	374.5	362.2	351.8
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	6.9	7.7	14.1	14.4	18.7	20.9	24.7	28.1	30.4	33.1	35.2	37.1	38.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Electric-Gasoline Hybrid	8.7	10.3	14.1	13.5	16.2	17.6	21.3	24.9	27.5	30.2	33.1	35.7	39.3
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	15.9	18.2	28.4	28.2	35.1	38.8	46.2	53.2	58.3	63.7	68.6	73.2	78.2
Percent Alternative Car Sales	3.94	4.41	6.78	6.79	8.34	8.96	10.29	11.59	12.76	14.11	15.49	16.81	18.19
Total New Car Sales	402.3	411.7	418.8	415.2	420.9	432.7	449.0	459.2	457.4	451.3	443.1	435.4	430.1
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	402.6	378.2	336.5	294.3	296.5	309.6	317.9	316.3	308.7	294.4	286.0	280.5	267.4
TDI Diesel ICE	15.3	16.0	16.9	18.0	19.9	22.7	24.6	29.0	31.9	34.5	36.9	41.2	46.7
Total Conventional	417.9	394.2	353.4	312.3	316.5	332.3	342.5	345.3	340.6	329.0	322.9	321.7	314.1

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	16.5	16.3	33.2	37.5	46.6	61.8	79.5	92.8	102.8	109.7	115.3	119.9	118.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	4.3	5.3	5.4	10.0	10.3	13.1	16.9	21.4	25.7	29.4	38.5	44.6	50.4
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	21.2	22.1	39.0	47.8	57.3	75.2	96.7	114.5	128.8	139.4	154.1	164.9	169.1
Percent Alternative L.T. Sales	4.82	5.30	9.93	13.27	15.32	18.46	22.01	24.90	27.45	29.77	32.31	33.88	35.00
Total New Truck Sales	439.1	416.3	392.3	360.1	373.7	407.5	439.2	459.8	469.5	468.4	477.0	486.5	483.2
Percent Total Alternative Sales	4.40	4.86	8.30	9.80	11.62	13.57	16.09	18.25	20.20	22.08	24.21	25.82	27.08
EPACT Legislative Alternative Sales	1.92	1.99	1.88	1.73	1.74	1.79	1.84	1.87	1.88	1.86	1.85	1.83	1.81
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	841.4	828.0	811.1	775.3	794.6	840.2	888.2	919.0	926.8	919.6	920.1	922.0	913.2

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	334.2	330.0	329.8	320.3	326.1	331.2	335.3	336.7	340.2	342.2	344.0	346.0	347.7	-0.5%
TDI Diesel ICE	11.1	12.7	14.6	14.3	15.3	16.5	17.7	18.7	19.9	21.1	22.6	24.1	25.4	9.3%
Total Conventional	345.3	342.8	344.4	334.5	341.4	347.7	352.9	355.4	360.1	363.3	366.6	370.1	373.1	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	40.1	41.0	43.5	54.1	51.6	49.5	47.6	49.0	48.0	48.2	48.2	48.0	48.9	8.0%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Plug-in Gasoline Hybrid	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	44.1	49.0	52.9	53.0	54.2	55.4	56.5	57.4	58.5	59.4	60.4	61.4	62.4	7.8%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	84.5	90.3	96.7	107.5	106.2	105.3	104.5	106.7	106.9	108.0	109.0	109.8	111.8	7.9%
Percent Alternative Car Sales	19.67	20.86	21.93	24.31	23.72	23.24	22.84	23.10	22.90	22.92	22.92	22.88	23.05	7.1%
Total New Car Sales	429.9	433.1	441.2	442.0	447.6	453.0	457.4	462.2	467.0	471.3	475.7	479.9	484.8	0.7%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	253.6	241.1	227.0	210.7	214.0	216.7	219.5	217.0	218.2	217.7	216.0	214.8	213.3	-2.4%
TDI Diesel ICE	52.7	60.6	68.0	61.9	67.0	72.2	77.1	80.3	84.8	89.2	94.3	99.2	102.8	8.1%
Total Conventional	306.2	301.7	295.0	272.6	281.0	288.9	296.6	297.3	303.0	306.9	310.4	314.0	316.1	-0.9%

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	113.6	106.0	97.6	127.8	118.0	109.7	103.7	105.1	101.4	100.4	98.4	95.8	96.4	7.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	56.2	62.7	68.3	68.3	69.4	70.2	71.3	71.6	72.6	73.4	73.9	74.5	75.1	11.7%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.0%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.3%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7%
Total Alternatives	170.2	169.0	166.2	196.4	187.7	180.3	175.3	177.0	174.4	174.1	172.6	170.7	171.9	8.9%
Percent Alternative L.T. Sales	35.72	35.91	36.03	41.87	40.05	38.42	37.15	37.33	36.53	36.19	35.74	35.21	35.22	8.2%
Total New Truck Sales	476.4	470.8	461.2	469.0	468.7	469.2	471.9	474.3	477.4	481.1	483.0	484.7	488.0	0.7%
Percent Total Alternative Sales	28.10	28.70	29.13	33.35	32.07	30.97	30.11	30.30	29.79	29.62	29.38	29.08	29.16	7.8%
EPACT Legislative Alternative Sales	1.80	1.80	1.80	1.82	1.83	1.84	1.86	1.87	1.88	1.90	1.91	1.92	1.94	-0.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	906.3	903.9	902.4	911.0	916.3	922.2	929.3	936.5	944.4	952.4	958.7	964.6	972.8	0.7%

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	800.1	809.7	798.1	788.8	785.4	802.0	819.0	825.2	811.4	788.9	764.0	740.0	719.5
TDI Diesel ICE	5.1	6.1	8.7	9.8	10.2	10.6	11.2	13.3	14.8	15.9	17.0	18.3	19.9
Total Conventional	805.2	815.8	806.8	798.6	795.6	812.6	830.1	838.4	826.2	804.9	781.0	758.3	739.5
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.4	16.0	29.1	29.8	38.5	43.2	52.8	59.6	64.3	70.0	73.6	77.8	81.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.2	0.3	0.2
Electric-Gasoline Hybrid	18.1	21.2	29.0	27.8	33.3	36.1	43.7	51.2	56.8	62.5	68.7	74.4	82.4
Compressed Natural Gas ICE	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	32.9	37.6	58.6	58.1	72.3	79.9	97.0	111.3	121.9	133.2	143.0	153.0	164.3
Percent Alternative Car Sales	3.93	4.41	6.77	6.78	8.33	8.95	10.46	11.72	12.86	14.20	15.48	16.79	18.18
Total New Car Sales	838.1	853.4	865.4	856.7	867.9	892.5	927.1	949.8	948.2	938.1	924.0	911.3	903.8
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	840.5	784.9	696.4	608.4	611.6	639.3	650.9	649.9	637.0	609.5	596.8	587.9	564.1
TDI Diesel ICE	30.2	32.2	33.9	35.8	41.0	46.1	49.7	58.7	64.9	70.3	75.9	85.2	95.0
Total Conventional	870.7	817.1	730.3	644.2	652.6	685.4	700.6	708.7	701.8	679.9	672.7	673.1	659.0

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	34.5	33.9	68.7	77.6	96.1	127.6	171.0	197.8	217.9	232.3	241.2	251.4	249.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	8.8	11.0	11.1	20.5	21.2	27.0	34.6	43.9	52.9	60.7	80.0	93.0	105.7
Compressed Natural Gas ICE	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Liquefied Petroleum Gases ICE	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	44.2	45.8	80.6	98.7	118.0	155.2	206.2	242.3	271.4	293.8	321.9	345.2	356.3
Percent Alternative L.T. Sales	4.83	5.30	9.94	13.29	15.31	18.46	22.74	25.48	27.89	30.17	32.36	33.90	35.09
Total New Truck Sales	914.9	862.9	810.9	742.9	770.6	840.6	906.8	951.0	973.2	973.6	994.6	1018.3	1015.4
Percent Total Alternative Sales	4.40	4.86	8.30	9.80	11.61	13.56	16.53	18.61	20.47	22.34	24.23	25.82	27.13
EPACT Legislative Alternative Sales	3.99	4.12	3.88	3.58	3.58	3.69	3.80	3.87	3.90	3.87	3.87	3.83	3.81
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1753.0	1716.2	1676.3	1599.6	1638.5	1733.1	1833.9	1900.7	1921.4	1911.7	1918.7	1929.5	1919.2

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	695.4	701.6	692.6	708.2	704.9	720.5	734.5	742.0	754.8	764.3	773.7	783.7	793.1	-0.1%
TDI Diesel ICE	22.2	26.2	29.4	30.8	32.1	34.9	37.5	40.0	42.8	45.8	49.3	52.9	56.2	9.7%
Total Conventional	717.6	727.8	722.0	739.1	737.0	755.4	772.0	782.0	797.6	810.1	823.0	836.6	849.3	0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	97.4	87.2	107.5	93.8	112.3	108.4	104.6	109.0	107.7	109.0	109.8	109.9	112.6	8.5%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	--
Electric-Diesel Hybrid	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	92.0	103.8	111.5	115.4	116.8	120.2	123.3	126.1	129.3	132.2	135.3	138.5	141.8	8.2%
Compressed Natural Gas ICE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	190.2	191.7	219.8	210.0	229.9	229.4	228.8	236.0	237.9	242.1	246.1	249.4	255.5	8.3%
Percent Alternative Car Sales	20.95	20.85	23.34	22.13	23.77	23.29	22.86	23.18	22.98	23.01	23.02	22.97	23.13	7.2%
Total New Car Sales	907.8	919.5	941.8	949.1	966.9	984.8	1000.8	1018.0	1035.5	1052.2	1069.1	1086.0	1104.8	1.1%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	509.8	514.6	462.7	493.6	463.7	472.7	482.6	479.2	485.4	487.5	487.2	488.0	488.3	-2.0%
TDI Diesel ICE	100.3	124.6	131.4	144.1	140.4	152.6	164.2	171.8	182.8	193.6	206.2	218.6	228.0	8.5%
Total Conventional	610.1	639.2	594.1	637.7	604.1	625.2	646.8	650.9	668.2	681.1	693.4	706.5	716.4	-0.5%

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	280.0	226.6	248.0	215.7	258.1	241.5	229.1	235.5	228.9	228.4	225.5	221.2	223.7	8.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	115.3	133.0	141.7	153.0	149.6	152.4	155.9	157.5	160.8	163.6	165.9	168.3	171.1	12.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.6%
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	-0.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.9%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9%
Total Alternatives	396.0	360.3	390.4	369.5	408.4	394.7	385.8	393.8	390.5	392.8	392.2	390.4	395.6	9.4%
Percent Alternative L.T. Sales	39.36	36.05	39.66	36.68	40.34	38.70	37.36	37.69	36.89	36.58	36.13	35.59	35.58	8.3%
Total New Truck Sales	1006.1	999.5	984.5	1007.1	1012.5	1019.9	1032.6	1044.7	1058.7	1073.9	1085.6	1096.9	1112.0	1.1%
Percent Total Alternative Sales	30.63	28.76	31.68	29.62	32.25	31.13	30.22	30.53	30.01	29.86	29.62	29.31	29.37	7.8%
EPACT Legislative Alternative Sales	3.80	3.82	3.85	3.90	3.95	4.00	4.06	4.12	4.18	4.24	4.30	4.35	4.42	0.3%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	1913.9	1918.9	1926.3	1956.2	1979.4	2004.7	2033.5	2062.7	2094.2	2126.1	2154.7	2182.9	2216.8	1.1%

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	431.8	446.6	447.8	447.5	453.9	469.1	485.3	493.4	489.2	479.3	466.9	455.0	444.6
TDI Diesel ICE	3.0	3.3	4.8	5.5	6.0	6.3	6.7	8.0	9.0	9.8	10.5	11.3	12.7
Total Conventional	434.7	449.8	452.6	452.9	459.8	475.4	492.0	501.5	498.2	489.0	477.3	466.3	457.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	7.8	8.8	16.4	18.9	22.3	25.2	30.1	34.6	38.0	41.7	44.9	47.8	50.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.1	0.2	0.1
Electric-Gasoline Hybrid	10.1	12.0	16.7	16.3	19.5	21.4	26.2	31.0	34.7	38.4	42.5	46.3	51.5
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	18.1	21.1	33.4	35.5	42.0	47.0	56.7	66.0	73.2	80.6	87.8	94.6	102.1
Percent Alternative Car Sales	4.01	4.47	6.87	7.26	8.37	9.00	10.33	11.63	12.81	14.16	15.54	16.86	18.25
Total New Car Sales	452.9	470.9	486.0	488.4	501.9	522.4	548.6	567.5	571.4	569.7	565.1	560.9	559.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	452.2	433.2	391.1	340.4	353.3	373.6	388.3	390.6	385.5	371.6	364.6	361.1	347.5
TDI Diesel ICE	18.1	17.4	18.7	19.5	23.9	27.5	30.1	35.8	39.8	43.4	46.8	52.8	60.6
Total Conventional	470.4	450.7	409.8	359.9	377.2	401.1	418.3	426.5	425.3	415.0	411.4	413.9	408.1

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	18.6	18.7	38.6	51.4	55.5	74.6	97.1	114.6	128.4	138.4	147.0	154.5	153.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	5.0	6.3	6.5	11.9	12.5	16.0	20.8	26.7	32.4	37.5	49.5	57.9	66.1
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	24.0	25.5	45.5	63.6	68.4	91.0	118.3	141.7	161.2	176.3	196.9	212.8	220.4
Percent Alternative L.T. Sales	4.85	5.35	9.99	15.03	15.34	18.49	22.05	24.94	27.49	29.82	32.37	33.95	35.07
Total New Truck Sales	494.3	476.1	455.3	423.5	445.6	492.1	536.6	568.2	586.5	591.3	608.3	626.7	628.5
Percent Total Alternative Sales	4.45	4.91	8.38	10.87	11.65	13.60	16.13	18.29	20.24	22.13	24.26	25.88	27.15
EPACT Legislative Alternative Sales	2.16	2.27	2.18	2.04	2.07	2.16	2.25	2.31	2.35	2.35	2.36	2.36	2.36
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	947.2	947.0	941.3	911.9	947.4	1014.5	1085.3	1135.6	1157.8	1160.9	1173.5	1187.6	1187.9

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	438.9	437.7	441.7	437.1	449.5	463.9	472.8	482.0	491.0	499.8	508.5	516.9	526.8	0.7%
TDI Diesel ICE	14.6	16.8	19.5	19.1	20.7	23.0	23.0	22.9	24.4	24.5	26.1	27.9	27.8	9.3%
Total Conventional	453.4	454.5	461.2	456.2	470.2	486.9	495.8	504.9	515.4	524.3	534.6	544.8	554.6	0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	52.6	54.3	58.2	69.4	66.8	60.9	61.7	63.2	64.3	65.5	66.7	67.8	69.3	9.0%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	58.3	65.4	71.3	72.3	74.7	77.6	80.6	83.7	86.0	89.3	91.6	94.1	97.8	9.1%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	111.4	120.2	130.0	142.2	142.1	139.1	142.8	147.5	150.9	155.4	159.0	162.5	167.9	9.0%
Percent Alternative Car Sales	19.72	20.92	21.99	23.77	23.21	22.21	22.37	22.61	22.64	22.86	22.92	22.98	23.24	7.1%
Total New Car Sales	564.8	574.7	591.2	598.4	612.3	626.0	638.7	652.4	666.2	679.8	693.5	707.3	722.4	1.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	333.0	319.8	304.0	292.8	300.2	311.7	317.9	323.6	326.9	333.1	335.7	337.7	344.3	-1.0%
TDI Diesel ICE	68.8	79.9	90.8	84.0	91.4	103.5	102.7	101.3	106.6	106.5	111.6	117.5	116.2	8.2%
Total Conventional	401.8	399.8	394.8	376.8	391.7	415.2	420.6	424.9	433.6	439.6	447.4	455.2	460.5	0.1%

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	149.3	140.7	130.7	163.6	152.5	132.9	134.8	137.6	138.3	140.9	141.5	141.7	144.8	8.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	74.4	83.8	92.1	94.1	96.6	99.7	103.0	106.5	108.7	112.8	114.8	116.9	121.3	13.1%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.2%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.5%
Total Alternatives	224.1	224.9	223.3	258.2	249.5	233.1	238.3	244.6	247.6	254.2	256.9	259.2	266.6	10.3%
Percent Alternative L.T. Sales	35.81	36.00	36.13	40.66	38.92	35.95	36.17	36.54	36.35	36.64	36.48	36.28	36.67	8.3%
Total New Truck Sales	626.0	624.7	618.0	635.1	641.2	648.3	659.0	669.5	681.2	693.8	704.2	714.4	727.1	1.8%
Percent Total Alternative Sales	28.18	28.78	29.22	32.47	31.24	29.20	29.38	29.66	29.57	29.82	29.75	29.66	29.97	7.8%
EPACT Legislative Alternative Sales	2.37	2.39	2.42	2.46	2.50	2.54	2.59	2.64	2.69	2.74	2.79	2.84	2.89	1.0%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	1190.8	1199.4	1209.2	1233.5	1253.4	1274.3	1297.6	1321.8	1347.4	1373.6	1397.7	1421.7	1449.6	1.8%

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1213.8	1220.8	1194.9	1169.7	1168.3	1187.4	1203.0	1207.1	1181.6	1120.9	1082.1	1047.2	1027.5
TDI Diesel ICE	8.8	10.0	14.5	16.3	15.8	17.3	22.4	24.2	25.4	27.1	28.7	29.5	33.7
Total Conventional	1222.6	1230.9	1209.4	1186.0	1184.2	1204.6	1225.4	1231.3	1207.0	1148.0	1110.8	1076.7	1061.2
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	22.0	24.1	43.7	49.2	57.3	63.9	74.5	84.6	91.6	123.2	125.2	127.9	115.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.5	0.4	0.3	0.4	0.4
Electric-Gasoline Hybrid	29.1	33.2	45.2	43.1	50.1	54.8	68.2	79.5	87.8	94.9	103.7	111.6	124.2
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	1.1	1.3	1.2
Total Alternatives	51.7	58.0	89.6	93.0	108.1	119.6	143.6	165.0	181.1	219.6	231.1	241.9	242.0
Percent Alternative Car Sales	4.06	4.50	6.90	7.27	8.37	9.03	10.49	11.82	13.04	16.06	17.22	18.35	18.57
Total New Car Sales	1274.3	1288.8	1299.0	1279.0	1292.3	1324.2	1369.0	1396.3	1388.1	1367.6	1341.9	1318.6	1303.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1268.4	1178.4	1037.3	883.6	906.7	939.1	939.3	938.8	920.5	808.8	796.1	791.1	791.3
TDI Diesel ICE	54.8	55.3	58.7	60.9	65.0	78.8	111.0	115.1	115.8	115.7	124.4	133.7	164.1
Total Conventional	1323.2	1233.7	1096.1	944.5	971.7	1017.8	1050.3	1053.9	1036.3	924.5	920.6	924.8	955.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	52.2	50.9	102.4	132.2	142.5	187.3	233.6	274.4	305.7	404.4	405.0	410.8	349.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	14.3	17.3	17.4	31.5	32.0	40.9	53.8	68.1	81.6	89.3	117.3	136.4	158.1
Compressed Natural Gas ICE	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.7	0.2	0.2	0.5	0.4	0.4
Total Alternatives	67.8	69.5	121.0	164.7	175.7	229.4	288.7	344.2	388.5	494.9	523.9	548.6	508.6
Percent Alternative L.T. Sales	4.87	5.33	9.94	14.84	15.31	18.40	21.56	24.62	27.26	34.87	36.27	37.23	34.74
Total New Truck Sales	1390.9	1303.2	1217.0	1109.2	1147.4	1247.3	1339.0	1398.0	1424.8	1419.5	1444.4	1473.4	1464.0
Percent Total Alternative Sales	4.48	4.92	8.37	10.79	11.63	13.57	15.97	18.22	20.25	25.64	27.10	28.31	27.12
EPACT Legislative Alternative Sales	6.07	6.22	5.82	5.34	5.33	5.47	5.62	5.69	5.71	5.64	5.61	5.55	5.49
Z EVP Legislative Alternative Sales	38.05	38.16	36.59	34.95	43.94	47.46	51.68	75.85	78.45	77.26	145.59	143.44	139.76
Total Vehicles Sales	2665.2	2592.0	2516.0	2388.2	2439.7	2571.5	2708.0	2794.4	2812.9	2787.1	2786.3	2792.1	2767.2

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1004.1	984.8	979.8	970.3	996.0	1016.7	1037.9	1051.9	1070.2	1084.5	1100.0	1115.6	1132.7	-0.3%
TDI Diesel ICE	37.3	40.4	45.2	44.4	48.0	51.0	51.0	50.7	53.7	57.1	61.0	64.9	65.7	8.1%
Total Conventional	1041.4	1025.1	1025.0	1014.7	1044.0	1067.8	1088.8	1102.6	1124.0	1141.7	1161.0	1180.5	1198.4	-0.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	120.1	135.1	152.3	167.9	156.9	151.7	145.2	149.3	147.5	148.6	148.6	148.4	150.1	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	--
Electric-Diesel Hybrid	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	139.3	153.5	165.3	167.5	172.5	177.2	183.7	189.9	194.8	199.2	203.8	208.6	216.1	8.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5%
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	2.7	2.7	2.6	2.7	2.6	2.6	2.9	2.8	2.8	2.9	2.9	2.9	3.0	83.3%
Total Alternatives	263.2	292.4	321.3	339.2	333.1	332.7	333.1	343.3	346.4	352.1	356.7	361.4	370.7	8.0%
Percent Alternative Car Sales	20.17	22.19	23.87	25.06	24.19	23.76	23.43	23.74	23.56	23.57	23.50	23.44	23.63	7.2%
Total New Car Sales	1304.5	1317.5	1346.3	1354.0	1377.1	1400.5	1422.0	1445.9	1470.4	1493.8	1517.7	1541.9	1569.1	0.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	752.1	698.6	647.9	633.3	653.2	665.0	688.1	694.4	705.1	710.6	714.9	719.3	729.3	-2.0%
TDI Diesel ICE	179.2	187.6	201.7	190.7	209.0	223.2	224.3	220.3	232.1	244.4	258.2	271.6	273.4	6.9%
Total Conventional	931.3	886.2	849.6	824.0	862.2	888.2	912.4	914.7	937.2	955.0	973.1	990.9	1002.7	-0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	336.1	350.4	346.5	395.7	357.2	335.5	319.3	327.3	318.9	317.6	312.1	306.1	307.9	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	--

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	176.5	193.8	209.4	215.3	220.9	224.8	233.5	239.7	245.0	249.7	253.6	257.8	266.2	12.1%
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.8%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	-0.9%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-2.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.8	0.7	0.7	0.8	0.8	0.8	1.0	1.0	1.1	1.2	1.2	1.2	1.3	23.8%
Total Alternatives	514.5	546.0	557.7	612.8	580.0	562.2	554.8	569.1	566.1	569.6	568.1	566.4	576.6	9.2%
Percent Alternative L.T. Sales	35.58	38.12	39.63	42.65	40.22	38.76	37.81	38.36	37.66	37.36	36.86	36.37	36.51	8.3%
Total New Truck Sales	1445.8	1432.2	1407.3	1436.8	1442.2	1450.4	1467.2	1483.9	1503.3	1524.6	1541.2	1557.3	1579.3	0.8%
Percent Total Alternative Sales	28.27	30.49	31.92	34.11	32.39	31.39	30.73	31.14	30.69	30.54	30.23	29.94	30.09	7.8%
EPACT Legislative Alternative Sales	5.46	5.47	5.50	5.56	5.63	5.69	5.77	5.85	5.93	6.02	6.10	6.18	6.28	0.0%
Z EVP Legislative Alternative Sales	211.13	209.64	207.84	219.46	218.08	216.59	241.80	240.91	243.74	256.70	259.31	261.88	266.39	8.4%
Total Vehicles Sales	2750.4	2749.7	2753.6	2790.8	2819.3	2850.9	2889.1	2929.8	2973.6	3018.3	3058.9	3099.1	3148.4	0.8%

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	7343.5	7391.4	7242.8	7109.3	7069.3	7192.0	7314.6	7340.2	7186.3	6931.9	6672.2	6444.3	6225.9
TDI Diesel ICE	49.1	57.8	83.4	93.5	94.2	96.1	109.6	127.0	139.4	148.9	157.4	167.1	182.6
Total Conventional	7392.6	7449.3	7326.2	7202.8	7163.5	7288.2	7424.2	7467.1	7325.8	7080.8	6829.6	6611.4	6408.5
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	132.7	145.7	264.6	282.6	346.7	388.9	458.0	517.0	558.9	635.5	679.4	705.7	745.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.3	0.9	0.8
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	2.7	2.4	2.0	2.4	2.1
Electric-Gasoline Hybrid	169.6	197.0	268.5	256.3	302.8	327.5	398.5	464.8	513.7	561.0	612.6	660.5	727.7
Compressed Natural Gas ICE	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3
Compressed Natural Gas Bi-fuel	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.5	2.4	2.4	2.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	2.0	2.2	2.2
Total Alternatives	306.3	346.9	537.2	543.1	653.7	721.3	861.5	987.1	1080.6	1204.1	1300.5	1375.7	1481.9
Percent Alternative Car Sales	3.98	4.45	6.83	7.01	8.36	9.01	10.40	11.68	12.86	14.53	16.00	17.22	18.78
Total New Car Sales	7698.9	7796.1	7863.4	7745.9	7817.3	8009.5	8285.7	8454.3	8406.4	8284.9	8130.1	7987.0	7890.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	7700.1	7150.2	6304.5	5430.0	5494.7	5720.0	5804.8	5777.3	5637.9	5289.4	5121.1	5045.9	4783.2
TDI Diesel ICE	296.7	313.6	330.8	346.4	383.0	424.5	510.3	580.2	624.3	661.7	700.6	777.8	864.5
Total Conventional	7996.8	7463.8	6635.3	5776.4	5877.7	6144.5	6315.1	6357.5	6262.2	5951.1	5821.8	5823.7	5647.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	316.6	308.9	622.1	747.3	863.7	1149.1	1467.1	1701.0	1881.9	2099.2	2214.9	2273.2	2284.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4
Electric-Gasoline Hybrid	83.3	102.4	103.1	187.9	193.4	244.3	315.9	399.2	478.4	542.3	707.6	821.0	925.0
Compressed Natural Gas ICE	2.1	2.4	2.0	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Compressed Natural Gas Bi-fuel	4.3	4.9	4.2	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7
Liquefied Petroleum Gases ICE	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases Bi-fuel	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.4	0.4	0.5	1.2	0.3	0.3	0.9	0.8	0.7
Total Alternatives	407.0	419.2	732.1	941.0	1063.1	1399.6	1789.3	2107.2	2366.6	2647.9	2929.5	3101.0	3216.6
Percent Alternative L.T. Sales	4.84	5.32	9.94	14.01	15.32	18.55	22.08	24.89	27.43	30.79	33.48	34.75	36.29
Total New Truck Sales	8403.8	7883.0	7367.4	6717.4	6940.8	7544.1	8104.4	8464.7	8628.8	8599.0	8751.3	8924.7	8864.3
Percent Total Alternative Sales	4.43	4.89	8.33	10.26	11.63	13.64	16.17	18.29	20.24	22.81	25.06	26.47	28.04
EPACT Legislative Alternative Sales	36.69	37.64	35.25	32.33	32.27	33.11	33.99	34.45	34.56	34.18	34.01	33.61	33.25
Z EVP Legislative Alternative Sales	60.18	60.53	58.19	56.61	73.14	80.89	90.02	134.85	140.41	138.21	260.10	255.91	249.28
Total Vehicles Sales	16102.7	15679.1	15230.8	14463.2	14758.1	15553.6	16390.1	16919.0	17035.2	16883.9	16881.4	16911.8	16754.6

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	6072.9	6019.6	5976.4	5925.3	6014.5	6138.6	6226.4	6281.4	6359.7	6418.2	6475.9	6535.4	6598.7	-0.5%
TDI Diesel ICE	205.1	233.8	264.5	265.0	284.3	307.5	323.2	338.3	359.3	381.1	408.1	435.4	456.5	9.0%
Total Conventional	6278.0	6253.4	6240.9	6190.2	6298.8	6446.0	6549.6	6619.7	6719.0	6799.3	6883.9	6970.8	7055.2	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	788.8	789.9	894.5	960.5	949.8	895.6	870.0	890.4	884.3	891.2	895.3	896.6	910.4	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%
Plug-in Gasoline Hybrid	0.8	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.6	3.1	--
Electric-Diesel Hybrid	1.9	1.7	1.7	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	--
Electric-Gasoline Hybrid	815.1	906.9	975.6	989.7	1012.0	1038.6	1063.7	1087.3	1110.4	1132.6	1154.8	1177.7	1205.7	7.8%
Compressed Natural Gas ICE	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	0.4%
Compressed Natural Gas Bi-fuel	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.7	0.4%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Liquefied Petroleum Gases Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	4.8	4.7	4.7	4.9	4.7	4.6	5.3	5.1	5.1	5.3	5.3	5.3	5.3	84.3%
Total Alternatives	1615.3	1708.0	1881.4	1961.8	1973.3	1946.0	1946.2	1990.2	2007.5	2037.1	2063.6	2088.3	2130.6	7.9%
Percent Alternative Car Sales	20.46	21.45	23.16	24.06	23.86	23.19	22.91	23.12	23.00	23.05	23.06	23.05	23.19	7.1%
Total New Car Sales	7893.3	7961.4	8122.3	8152.0	8272.2	8392.0	8495.9	8609.9	8726.5	8836.3	8947.5	9059.1	9185.9	0.7%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	4511.3	4337.3	4001.9	3932.9	3942.2	4028.0	4090.2	4078.9	4105.6	4112.6	4099.2	4089.5	4094.5	-2.3%
TDI Diesel ICE	959.4	1106.3	1202.5	1176.6	1253.7	1365.3	1432.1	1476.4	1554.7	1632.2	1725.6	1815.8	1876.2	7.7%
Total Conventional	5470.7	5443.6	5204.5	5109.5	5195.9	5393.3	5522.3	5555.2	5660.3	5744.8	5824.8	5905.3	5970.6	-0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	2241.0	2049.8	2035.7	2251.7	2163.7	1971.2	1889.6	1909.4	1868.9	1859.6	1832.0	1799.7	1805.4	7.6%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-1.0%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	--

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--
Electric-Gasoline Hybrid	1028.8	1153.4	1242.9	1282.2	1295.4	1319.0	1345.9	1362.9	1384.3	1405.4	1420.1	1435.4	1460.2	11.7%
Compressed Natural Gas ICE	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	-1.0%
Compressed Natural Gas Bi-fuel	3.6	3.6	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.8	3.8	3.8	3.9	-1.0%
Liquefied Petroleum Gases ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-2.1%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	1.5	1.3	1.3	1.4	1.4	1.4	1.7	1.8	1.9	2.1	2.2	2.2	2.3	24.5%
Total Alternatives	3277.5	3210.6	3286.0	3541.5	3466.9	3298.1	3243.8	3280.7	3261.7	3273.7	3261.0	3244.2	3274.9	8.9%
Percent Alternative L.T. Sales	37.47	37.10	38.70	40.94	40.02	37.95	37.00	37.13	36.56	36.30	35.89	35.46	35.42	8.2%
Total New Truck Sales	8748.2	8654.2	8490.5	8651.0	8662.9	8691.4	8766.0	8835.9	8922.0	9018.6	9085.8	9149.5	9245.5	0.7%
Percent Total Alternative Sales	29.40	29.60	31.10	32.75	32.12	30.70	30.07	30.21	29.86	29.74	29.53	29.29	29.33	7.8%
EPACT Legislative Alternative Sales	33.06	33.07	33.20	33.50	33.79	34.11	34.46	34.82	35.22	35.61	35.97	36.32	36.75	-0.1%
Z EVP Legislative Alternative Sales	376.77	374.38	371.71	392.27	390.01	387.50	432.66	431.17	436.29	459.51	464.27	468.97	477.10	9.0%
Total Vehicles Sales	16641.4	16615.7	16612.7	16803.0	16935.0	17083.4	17261.9	17445.8	17648.5	17854.9	18033.4	18208.6	18431.4	0.7%

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Light-Duty Car Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	132.58	132.84	132.79	132.46	131.97	131.51	131.16	130.82	130.33	129.59	128.61	127.43	126.06
TDI Diesel ICE	0.51	0.53	0.58	0.64	0.70	0.76	0.84	0.94	1.05	1.17	1.29	1.42	1.56
Total Conventional	133.09	133.37	133.36	133.10	132.67	132.27	132.00	131.77	131.38	130.76	129.90	128.85	127.63
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	0.49	0.63	0.89	1.16	1.49	1.86	2.30	2.79	3.31	3.89	4.51	5.13	5.77
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Compressed Natural Gas Bi-fuel	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Technology													
Electric Vehicle	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Electric-Gasoline Hybrid	0.26	0.46	0.73	0.98	1.28	1.60	1.99	2.43	2.92	3.44	4.00	4.60	5.24
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total Alternatives	0.82	1.15	1.68	2.20	2.83	3.52	4.35	5.29	6.30	7.41	8.58	9.81	11.10
Total Car Stock	133.91	134.52	135.04	135.30	135.50	135.79	136.35	137.05	137.68	138.16	138.48	138.66	138.72
Light-Duty Truck Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	81.27	84.75	87.22	88.65	89.96	91.33	92.58	93.66	94.49	94.85	94.93	94.83	94.37
TDI Diesel ICE	3.10	3.29	3.50	3.71	3.95	4.23	4.57	4.98	5.42	5.89	6.38	6.93	7.55
Total Conventional	84.37	88.04	90.72	92.36	93.91	95.55	97.15	98.64	99.91	100.74	101.31	101.76	101.93
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	3.85	4.12	4.67	5.32	6.06	7.07	8.37	9.87	11.52	13.36	15.26	17.17	19.03
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Compressed Natural Gas Bi-fuel	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Liquefied Petroleum Gases ICE	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases Bi-fuel	0.09	0.08	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02
Electric Technology													
Electric Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.02	0.12	0.22	0.41	0.61	0.85	1.16	1.55	2.02	2.54	3.23	4.01	4.88
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total Alternatives	4.04	4.40	5.05	5.88	6.81	8.05	9.66	11.55	13.67	16.02	18.60	21.29	24.02
Total Truck Stock	88.41	92.44	95.77	98.24	100.72	103.60	106.81	110.20	113.58	116.76	119.91	123.05	125.95
Total Vehicle Stock	222.32	226.96	230.80	233.54	236.22	239.40	243.16	247.25	251.26	254.92	258.40	261.71	264.67

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Light-Duty Car Stock 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	124.58	123.09	121.60	120.11	118.77	117.62	116.62	115.75	115.03	114.44	113.98	113.63	113.41	-0.7%
TDI Diesel ICE	1.72	1.90	2.11	2.31	2.53	2.76	3.00	3.24	3.50	3.76	4.05	4.34	4.65	9.5%
Total Conventional	126.30	124.99	123.71	122.42	121.30	120.38	119.62	119.00	118.53	118.20	118.02	117.98	118.06	-0.5%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	6.44	7.08	7.80	8.55	9.26	9.88	10.44	10.99	11.49	11.96	12.39	12.79	13.17	13.5%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	1.9%
Compressed Natural Gas Bi-fuel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	3.5%
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.2%
Liquefied Petroleum Gases Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.7%
Electric Technology														
Electric Vehicle	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-8.3%
Plug-in Gasoline Hybrid	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	--
Electric-Diesel Hybrid	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	--
Electric-Gasoline Hybrid	5.95	6.73	7.55	8.35	9.15	9.94	10.73	11.49	12.24	12.96	13.67	14.35	15.02	15.7%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	--
Total Alternatives	12.48	13.90	15.45	17.01	18.53	19.95	21.30	22.62	23.88	25.08	26.22	27.31	28.36	14.3%
Total Car Stock	138.78	138.90	139.16	139.44	139.83	140.33	140.92	141.62	142.41	143.28	144.24	145.28	146.42	0.4%
Light-Duty Truck Stock 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	93.57	92.53	91.11	89.59	88.08	86.66	85.32	84.02	82.80	81.65	80.55	79.52	78.56	-0.3%
TDI Diesel ICE	8.25	9.07	9.97	10.81	11.70	12.68	13.68	14.68	15.73	16.81	17.93	19.09	20.26	7.9%
Total Conventional	101.82	101.60	101.07	100.40	99.78	99.33	99.00	98.71	98.53	98.45	98.48	98.61	98.82	0.5%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	20.77	22.24	23.62	25.12	26.44	27.47	28.34	29.13	29.79	30.35	30.81	31.15	31.43	8.8%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.5%
Compressed Natural Gas Bi-fuel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.8%
Liquefied Petroleum Gases ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-4.4%
Liquefied Petroleum Gases Bi-fuel	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	-11.1%
Electric Technology														
Electric Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.6%
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	5.84	6.90	8.02	9.16	10.27	11.36	12.43	13.47	14.47	15.44	16.36	17.24	18.08	23.2%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	37.1%
Total Alternatives	26.72	29.25	31.75	34.38	36.81	38.94	40.88	42.71	44.37	45.90	47.28	48.51	49.63	10.6%
Total Truck Stock	128.54	130.85	132.83	134.79	136.59	138.27	139.88	141.42	142.90	144.36	145.76	147.11	148.45	2.0%
Total Vehicle Stock	267.32	269.75	271.98	274.22	276.42	278.60	280.80	283.03	285.31	287.64	290.00	292.39	294.87	1.1%

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; Oak Ridge National Laboratory, Transportation Energy Data Book: 26 and Annual (Oak Ridge, TN, 2007); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	29.91	30.77	30.62	30.54	30.69	31.04	31.58	31.68	31.76	32.93	34.05	35.56	36.78
TDI Diesel ICE	42.11	42.84	41.74	41.40	41.01	41.07	41.55	41.60	41.62	43.35	44.74	46.47	47.72
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	29.05	30.24	30.04	29.91	30.49	30.90	31.44	31.53	31.58	32.79	33.91	35.40	36.56
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	32.41	33.53	33.28	33.09	33.21	33.50	34.02	34.11	34.19	35.52	36.78	38.35	39.53
Compressed Natural Gas Bi-fuel	29.26	30.57	30.35	30.23	30.37	30.64	31.14	31.22	31.29	32.40	33.48	34.79	35.70
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	29.95	30.89	30.69	30.55	30.82	31.18	31.69	31.78	31.86	33.07	34.25	35.78	36.89
Electric Technology													
Electric Vehicle	85.70	91.91	93.11	92.20	91.64	92.53	94.16	95.58	96.89	98.75	99.30	100.29	101.43
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.50	65.42	66.51	67.62	66.47	67.89
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	53.20	53.12	53.05	50.44	50.70	51.50	52.55	53.46
Electric-Gasoline Hybrid	44.15	45.12	44.95	44.56	43.31	43.13	43.66	43.76	43.79	45.46	46.84	48.56	49.84
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	39.44	39.15	39.07	39.41	39.38	39.35	39.77	40.25	40.59	40.76
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	61.25	62.11	59.02	58.45	58.17	58.03	58.28	58.28	51.37	51.76	52.08	51.67	51.96
Average New Car MPG	30.16	31.08	31.02	30.94	31.13	31.49	32.10	32.28	32.42	33.70	34.92	36.54	37.88
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	22.17	22.96	22.87	22.82	22.99	23.19	23.81	24.54	25.23	25.76	26.62	26.95	27.57
TDI Diesel ICE	28.91	30.21	29.83	29.64	29.77	30.07	30.95	31.80	32.53	33.05	33.89	34.25	34.85

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	21.28	21.72	23.06	22.92	23.08	23.24	23.83	24.54	25.26	25.82	26.73	27.10	27.76
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	22.60	24.21	24.13	24.07	24.17	24.26	24.87	25.59	26.30	26.88	27.68	28.08	28.72
Compressed Natural Gas Bi-fuel	20.71	22.31	22.24	22.20	22.27	22.35	22.92	23.56	24.20	24.73	25.46	25.84	26.40
Liquefied Petroleum Gases ICE	23.38	24.29	24.25	24.23	24.35	24.48	25.02	25.86	26.74	27.41	28.28	28.62	29.29
Liquefied Petroleum Gases Bi-fuel	20.62	22.24	22.18	22.15	22.22	22.32	22.92	23.60	24.28	24.87	25.65	26.05	26.65
Electric Technology													
Electric Vehicle	70.53	73.32	73.29	72.60	72.64	73.89	75.90	77.94	79.66	80.86	81.35	81.37	81.51
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.39	56.57	57.01	58.04
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	45.14	39.84
Electric-Gasoline Hybrid	30.30	30.28	30.00	33.00	33.22	33.45	34.14	34.75	35.20	35.52	36.51	36.74	37.26
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.53	37.87	38.24	38.47	38.47	38.54
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	44.74	45.01	43.49	43.07	43.10	43.25	43.82	44.37	44.72	44.69	44.96	44.96	45.03
Average New Truck MPG	22.37	23.21	23.20	23.31	23.50	23.74	24.46	25.29	26.07	26.69	27.73	28.21	29.00
Fleet Average Stock Car MPG 2/	22.90	23.21	23.15	23.20	23.19	23.28	23.49	23.74	23.95	24.23	24.59	25.00	25.46
Fleet Average Stock Truck MPG 2/	16.53	17.20	17.19	17.26	17.27	17.37	17.58	17.85	18.14	18.47	18.84	19.23	19.65
Fleet Average Stock Vehicle MPG 2/	19.86	20.32	20.24	20.26	20.23	20.30	20.47	20.69	20.92	21.20	21.54	21.91	22.32

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Automobiles 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	38.23	39.23	40.38	40.46	40.46	40.43	40.40	40.38	40.36	40.33	40.31	40.29	40.26	1.1%
TDI Diesel ICE	49.18	50.29	51.35	51.40	51.40	51.35	51.30	51.26	51.21	51.17	51.13	51.09	51.04	0.7%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	38.06	39.34	40.71	40.84	40.84	40.79	40.74	40.73	40.69	40.67	40.64	40.60	40.57	1.2%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	41.16	42.22	43.48	43.62	43.60	43.55	43.51	43.48	43.45	43.41	43.38	43.35	43.31	1.1%
Compressed Natural Gas Bi-fuel	36.90	37.77	38.74	38.86	38.83	38.79	38.76	38.73	38.71	38.68	38.65	38.62	38.60	1.0%
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases Bi-fuel	38.36	39.37	40.47	40.60	40.57	40.54	40.51	40.48	40.45	40.42	40.40	40.37	40.34	1.1%
Electric Technology														
Electric Vehicle	102.53	103.26	104.11	104.08	103.98	103.87	103.77	103.66	103.57	103.47	103.37	103.29	103.20	0.5%
Plug-in Gasoline Hybrid	70.06	72.06	73.15	73.44	73.43	73.36	73.29	73.24	73.19	73.13	73.09	73.02	72.93	--
Electric-Diesel Hybrid	54.72	55.84	57.48	57.79	57.76	57.70	57.65	57.60	57.55	57.50	57.46	57.41	57.36	--
Electric-Gasoline Hybrid	51.42	52.66	53.93	54.02	54.02	53.97	53.92	53.88	53.84	53.79	53.76	53.71	53.66	0.7%
Fuel Cell Technology														
Fuel Cell Gasoline	41.09	41.43	41.85	41.85	41.80	41.76	41.72	41.68	41.64	41.60	41.56	41.53	41.49	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	52.53	53.19	53.70	53.57	53.45	53.35	53.25	53.16	53.08	53.00	52.93	52.85	52.78	-0.7%
Average New Car MPG	39.50	40.70	41.99	42.09	42.12	42.12	42.11	42.12	42.11	42.12	42.12	42.13	42.13	1.3%
Light-Duty Trucks 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	28.20	28.48	29.24	29.36	29.46	29.59	29.69	29.80	29.84	29.83	29.82	29.82	29.81	1.1%
TDI Diesel ICE	35.49	35.76	36.54	36.69	36.79	36.90	37.00	37.09	37.11	37.08	37.05	37.03	37.01	0.8%

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	28.44	28.73	29.53	29.65	29.77	29.92	30.04	30.16	30.21	30.20	30.20	30.20	30.20	1.4%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	29.34	29.63	30.36	30.51	30.61	30.72	30.82	30.91	30.92	30.90	30.87	30.86	30.84	1.0%
Compressed Natural Gas Bi-fuel	26.92	27.16	27.71	27.82	27.91	28.01	28.11	28.20	28.21	28.19	28.17	28.16	28.14	1.0%
Liquefied Petroleum Gases ICE	29.93	30.18	31.19	31.30	31.39	31.50	31.61	31.71	31.74	31.73	31.72	31.72	31.72	1.1%
Liquefied Petroleum Gases Bi-fuel	27.22	27.49	28.09	28.24	28.33	28.45	28.55	28.65	28.66	28.64	28.62	28.61	28.59	1.1%
Electric Technology														
Electric Vehicle	81.79	81.84	82.43	82.36	82.31	82.33	82.34	82.30	82.25	82.15	82.06	81.97	81.88	0.5%
Plug-in Gasoline Hybrid	59.22	59.82	62.69	63.22	56.12	56.29	56.42	56.56	56.57	56.49	56.67	56.60	56.54	--
Electric-Diesel Hybrid	40.12	40.24	44.74	44.88	45.01	45.18	45.34	45.49	45.54	45.51	45.48	45.46	45.44	--
Electric-Gasoline Hybrid	37.84	38.10	39.08	39.28	39.38	39.49	39.59	39.66	39.66	39.62	39.59	39.56	39.53	1.1%
Fuel Cell Technology														
Fuel Cell Gasoline	38.67	38.69	38.96	38.93	38.91	38.92	38.93	38.91	38.89	38.84	38.80	38.76	38.72	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	45.17	45.19	45.50	45.46	45.42	45.42	45.41	44.62	44.52	44.39	44.25	44.12	43.99	-0.1%
Average New Truck MPG	29.83	30.36	31.36	31.48	31.65	31.88	32.04	32.18	32.27	32.30	32.35	32.41	32.44	1.4%
Fleet Average Stock Car MPG 2/	25.98	26.55	27.16	27.76	28.37	28.96	29.53	30.06	30.57	31.05	31.49	31.90	32.25	1.4%
Fleet Average Stock Truck MPG 2/	20.08	20.52	20.98	21.44	21.88	22.31	22.72	23.10	23.47	23.81	24.13	24.42	24.68	1.5%
Fleet Average Stock Vehicle MPG 2/	22.76	23.24	23.75	24.25	24.75	25.23	25.69	26.13	26.55	26.94	27.30	27.64	27.93	1.3%

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.

2/ Stock values are on-road efficiencies. Includes personal vehicles, fleet vehicles, and freight light trucks.

MPG = Miles per Gallon.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 derived using: National Highway Traffic and Safety Administration, Final Fuel Economy Reports from Auto Manufacturers; Federal Highway Administration, Highway Statistics 2006 (Washington, DC, 2007); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey", EC97TV (Washington, DC, October 1999); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 50. Light-Duty Vehicle Miles Traveled by Technology Type (billion miles, unless otherwise noted)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Conventional Vehicles 1/													
Gasoline ICE Vehicles	2584.4	2581.3	2546.2	2553.9	2569.2	2588.7	2606.0	2622.1	2636.6	2646.9	2656.1	2665.0	2670.9
TDI Diesel ICE	43.2	44.5	45.9	48.6	51.9	55.7	60.7	66.6	73.0	80.1	87.7	96.5	106.5
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	52.7	56.6	64.4	74.5	86.5	102.2	122.0	144.7	169.8	198.2	228.5	260.0	292.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas Technology													
Compressed Natural Gas ICE	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
Compressed Natural Gas Bi-fuel	0.8	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5
Liquefied Petroleum Gases ICE	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases Bi-fuel	1.4	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3
Electric Technology													
Electric Vehicle	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
Electric-Gasoline Hybrid	3.4	6.8	10.7	15.6	21.0	27.3	35.3	44.8	55.8	67.9	82.7	99.4	118.2
Fuel Cell Technology													
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
VMT Equation Components													
Total VMT (billion miles)	2687.1	2692.6	2670.6	2695.9	2731.9	2777.1	2827.1	2881.3	2938.2	2996.1	3058.1	3123.9	3190.8
VMT/Driving Population (thousand miles)	13.4	13.2	13.0	12.9	13.0	13.1	13.2	13.3	13.5	13.6	13.8	14.0	14.2
Driving Population (million)	232.2	235.0	237.7	240.2	242.6	244.9	247.1	249.2	251.3	253.3	255.3	257.3	259.5
Price Effects													
Motor Gasoline Price (1987 \$/million Btu)	12.11	13.31	14.14	15.39	14.27	13.33	12.99	12.60	12.25	12.18	11.80	11.50	11.56
Fleet Miles per Gallon	20.06	20.08	20.23	20.38	20.53	20.70	20.90	21.14	21.40	21.70	22.05	22.43	22.84
Real Cost of Driving per Mile (1987 cents)	10.309	11.322	11.946	12.907	11.875	11.005	10.617	10.186	9.782	9.589	9.144	8.764	8.645
Point Price Elasticity	-0.024	-0.027	-0.029	-0.032	-0.029	-0.027	-0.026	-0.024	-0.023	-0.022	-0.021	-0.020	-0.019
Income Effects													
Disposable Income (billion 1987 dollars)	8148.0	8397.0	8656.5	8852.2	9137.5	9471.9	9818.9	10140.6	10439.9	10737.8	11054.7	11373.6	11684.1
Point Income Elasticity	187.252	192.999	200.603	203.210	207.000	211.084	214.941	217.809	219.895	221.802	223.714	225.319	226.620
Demographic Driving Population Effect													
Percentage Female Driving Population	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Point Demographic Elasticity	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830

Table 50. Light-Duty Vehicle Miles Traveled by Technology Type (billion miles, unless otherwise noted)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Conventional Vehicles 1/														
Gasoline ICE Vehicles	2672.3	2666.7	2656.7	2650.7	2645.7	2643.8	2644.5	2646.1	2649.6	2654.4	2660.2	2667.1	2675.3	0.1%
TDI Diesel ICE	117.9	131.1	145.8	160.4	176.1	193.3	211.4	229.9	249.4	269.8	291.3	313.8	336.8	8.8%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	324.0	352.5	381.3	413.6	443.8	470.0	493.7	516.7	537.7	557.1	574.7	590.4	604.8	10.4%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Natural Gas Technology														
Compressed Natural Gas ICE	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5%
Compressed Natural Gas Bi-fuel	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-5.2%
Liquefied Petroleum Gases Bi-fuel	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-9.8%
Electric Technology														
Electric Vehicle	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-6.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	--
Electric-Diesel Hybrid	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	--
Electric-Gasoline Hybrid	139.3	162.7	187.9	214.0	240.2	266.8	293.5	320.1	346.5	372.6	398.1	423.1	447.6	19.1%
Fuel Cell Technology														
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	45.7%
VMT Equation Components														
Total VMT (billion miles)	3256.8	3316.3	3375.1	3442.1	3509.4	3577.5	3646.9	3716.8	3787.2	3858.0	3928.6	3998.8	4069.0	1.7%
VMT/Driving Population (thousand miles)	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.2	0.9%
Driving Population (million)	261.7	263.9	266.0	268.2	270.5	272.7	275.0	277.3	279.7	282.1	284.5	286.9	289.3	0.9%
Price Effects														
Motor Gasoline Price (1987 \$/million Btu)	11.70	12.03	12.35	12.15	12.26	12.30	12.29	12.36	12.41	12.48	12.60	12.71	12.80	-0.2%
Fleet Miles per Gallon	23.29	23.77	24.30	24.82	25.33	25.83	26.32	26.80	27.24	27.66	28.05	28.40	28.72	1.5%
Real Cost of Driving per Mile (1987 cents)	8.580	8.647	8.684	8.367	8.269	8.133	7.975	7.880	7.782	7.708	7.672	7.647	7.611	-1.6%
Point Price Elasticity	-0.019	-0.019	-0.019	-0.018	-0.018	-0.017	-0.017	-0.016	-0.016	-0.016	-0.015	-0.015	-0.015	-2.5%
Income Effects														
Disposable Income (billion 1987 dollars)	12003.8	12323.0	12653.8	12986.5	13320.0	13658.3	13999.7	14349.1	14713.0	15085.4	15466.4	15852.5	16246.1	2.8%
Point Income Elasticity	228.104	229.964	232.027	233.490	234.896	236.273	237.570	238.926	240.428	241.989	243.644	245.340	247.097	1.0%
Demographic Driving Population Effect														
Percentage Female Driving Population	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	--
Point Demographic Elasticity	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	--

Table 50. Light-Duty Vehicle Miles Traveled by Technology Type (billion miles, unless otherwise noted)

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.

VMT = Vehicle miles traveled.

ICE = Internal combustion engine.

MmBtu = Million British thermal units.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Federal Highway Administration, Highway Statistics 2006 (Washington, DC, 2007); Oak Ridge National Laboratory, Transportation Energy Data Book: 26 and Annual (Oak Ridge, TN, 2007); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	28.4	28.9	28.9	29.1	29.5	30.0	30.4	30.6	30.7	31.5	32.3	33.3	34.7
Subcompact	29.4	31.2	31.0	31.0	31.3	31.7	32.4	32.5	32.6	33.7	34.8	36.4	37.9
Compact	33.0	33.3	33.1	33.0	33.5	33.9	34.5	34.6	34.7	36.0	37.2	38.9	40.5
Midsize	29.5	30.5	30.2	30.1	30.4	30.7	31.1	31.2	31.3	32.5	33.7	35.3	36.3
Large	27.1	29.0	28.8	28.6	28.7	29.0	29.4	29.5	29.6	30.7	31.9	33.1	33.9
Two Seater	24.5	25.8	25.6	25.6	25.7	25.9	26.3	26.4	26.5	27.1	27.8	29.0	30.2
Average New Car	29.9	30.7	30.6	30.5	30.6	31.0	31.5	31.6	31.7	32.9	34.0	35.5	36.7
Average New Car On-Road MPG	24.3	25.0	24.9	24.9	25.0	25.3	25.8	25.9	26.0	27.0	27.9	29.2	30.2
Conventional Light Trucks													
Small Pickup	23.4	23.1	23.2	23.2	23.5	23.7	24.4	25.2	25.9	26.6	27.7	28.1	28.8
Large Pickup	19.3	21.4	21.3	21.2	21.3	21.4	22.0	22.6	23.2	23.8	24.5	24.9	25.5
Small Van	25.0	25.3	25.2	25.2	25.3	25.6	26.1	26.9	27.6	28.0	29.0	29.1	29.8
Large Van	23.1	23.8	23.8	23.7	23.9	24.0	24.5	25.4	26.3	27.0	28.0	28.3	29.0
Small Utility	24.7	25.7	25.7	25.7	26.0	26.3	27.1	28.0	28.9	29.5	30.5	30.8	31.4
Large Utility	20.9	20.9	20.9	20.9	21.0	21.2	21.8	22.4	22.9	23.4	24.2	24.5	25.1
Average New Light Truck	22.2	23.0	22.9	22.9	23.0	23.2	23.9	24.6	25.3	25.9	26.7	27.1	27.7
Average New LT On-Road MPG	17.8	18.5	18.5	18.4	18.6	18.8	19.3	19.9	20.5	21.0	21.7	22.0	22.6
Degradation Factors 1/													
Cars	0.813	0.814	0.815	0.816	0.817	0.818	0.819	0.820	0.821	0.822	0.823	0.824	0.825
Light Trucks	0.803	0.804	0.805	0.806	0.807	0.808	0.809	0.810	0.811	0.812	0.813	0.814	0.815
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	--	--	--	--	--	--	--	--	--	--	31.9	32.4	33.0
Subcompact	61.2	62.1	59.0	58.4	58.2	58.0	38.5	38.4	38.5	38.7	39.3	40.7	42.2
Compact	47.9	48.3	47.9	47.5	39.6	38.0	38.8	39.1	39.3	40.6	41.6	43.4	45.3
Midsize	36.0	37.9	36.2	35.6	35.5	35.8	36.3	36.4	36.6	38.0	39.5	41.4	42.6
Large	27.3	29.3	29.1	28.9	33.6	34.1	34.4	34.4	34.4	35.5	36.8	38.3	39.3
Two Seater	35.6	37.3	37.0	36.7	36.7	36.8	37.0	37.1	31.6	31.8	32.3	33.1	34.0
Average New Alternative Cars	36.7	37.9	36.4	35.7	35.6	35.7	36.3	36.5	36.6	37.9	39.2	40.9	42.2
Alternative-Fuel Light Trucks													
Small Pickup	23.6	23.4	23.4	23.4	23.7	24.0	24.7	25.4	26.2	26.9	28.0	28.4	29.2
Large Pickup	19.5	21.6	21.5	21.5	21.5	21.6	22.2	23.2	24.1	24.7	25.5	26.1	26.8
Small Van	25.3	25.6	25.4	25.4	25.6	28.2	29.0	29.7	30.4	30.6	31.8	32.1	33.0
Large Van	23.4	24.0	24.0	24.0	24.1	24.3	24.8	25.6	26.6	27.3	30.8	31.6	32.5
Small Utility	44.7	45.0	25.7	27.9	27.9	28.1	28.9	29.8	30.7	31.4	32.6	33.2	34.2
Large Utility	23.3	23.7	23.2	22.8	22.7	22.8	23.4	24.1	24.7	25.2	26.1	26.6	27.3
Average New Alt. Light Trucks	22.8	23.5	23.9	24.5	24.5	24.6	25.2	26.0	26.8	27.4	28.6	29.2	30.0
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	29.8	31.0	30.8	30.7	31.0	31.3	31.8	32.0	32.0	33.2	34.3	35.9	37.1
Light Trucks	21.9	22.7	22.6	22.6	22.7	22.9	23.5	24.2	24.9	25.4	26.3	26.6	27.2

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average On-Road MPG													
Cars	23.2	23.9	24.4	24.7	25.0	25.2	25.5	25.8	26.0	26.4	26.9	27.7	28.7
Light Trucks	16.5	17.1	17.5	17.8	18.0	18.3	18.5	18.8	19.2	19.6	20.2	20.7	21.2
New Vehicle Sales Shares (%)													
Conventional Cars													
Minicompact	1.402	1.667	1.742	1.783	1.546	1.557	1.616	1.611	1.617	1.658	1.611	1.622	1.666
Subcompact	8.885	10.921	11.361	11.619	10.137	10.192	10.560	10.558	10.590	10.749	10.514	10.528	10.827
Compact	32.348	25.492	26.592	27.007	24.089	24.264	25.062	24.997	25.023	25.288	24.827	24.873	25.498
Midsize	39.109	38.016	37.226	36.956	38.861	38.754	38.255	38.292	38.283	38.119	38.421	38.363	37.953
Large	16.125	21.590	20.772	20.332	23.033	22.900	22.184	22.227	22.171	21.848	22.280	22.259	21.717
Two Seater	2.132	2.314	2.307	2.303	2.335	2.333	2.322	2.316	2.316	2.338	2.347	2.354	2.339
Conventional Light Trucks													
Small Pickup	6.916	7.905	7.507	7.396	8.236	8.184	7.954	7.983	7.971	7.876	7.933	7.986	7.777
Large Pickup	20.161	19.601	19.420	19.518	19.283	19.262	19.302	19.328	19.357	19.389	19.324	19.385	19.408
Small Van	7.720	6.263	6.523	6.627	5.901	5.932	6.126	6.064	6.093	6.216	6.033	6.152	6.226
Large Van	9.335	8.836	8.694	8.736	8.684	8.670	8.690	8.644	8.635	8.692	8.622	8.722	8.684
Small Utility	27.206	28.401	28.499	28.380	28.801	28.815	28.701	28.743	28.724	28.620	28.792	28.622	28.633
Large Utility	28.662	28.994	29.356	29.342	29.095	29.136	29.228	29.238	29.220	29.207	29.295	29.132	29.273
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	193	204	207	208	210	212	212	213	213	213	214	216	218
Subcompact	174	162	164	166	169	172	174	175	176	177	179	183	186
Compact	146	160	161	163	166	168	168	169	169	170	172	173	173
Midsize	190	193	195	197	199	202	203	204	204	209	213	217	219
Large	217	237	239	241	245	247	246	247	248	250	252	254	256
Two Seater	298	284	287	290	293	296	296	297	299	299	301	302	301
Average New Car	181	193	194	196	201	203	203	204	205	207	210	213	213
Conventional Light Trucks													
Small Pickup	204	214	217	220	223	225	225	227	229	229	231	231	231
Large Pickup	281	279	283	285	290	294	293	294	295	296	296	297	298
Small Van	195	197	200	202	205	207	208	210	211	212	213	214	216
Large Van	220	226	229	232	234	236	236	236	237	238	239	238	238
Small Utility	196	190	193	195	197	197	196	196	197	198	200	200	201
Large Utility	269	262	266	268	272	278	279	281	281	280	280	279	279
Average New Light Truck	237	234	237	240	243	246	246	247	248	248	248	249	249
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3133	3151	3179	3198	3200	3202	3182	3180	3181	3152	3127	3103	3066
Subcompact	2986	2943	2972	3002	3016	3023	3010	3010	3012	2981	2958	2927	2897
Compact	2863	2978	3008	3037	3044	3050	3036	3037	3039	3009	2990	2961	2933
Midsize	3338	3346	3378	3406	3416	3425	3411	3413	3415	3389	3369	3340	3321
Large	3700	3731	3766	3801	3830	3837	3805	3807	3810	3770	3725	3693	3678
Two Seater	3261	3145	3176	3207	3227	3239	3227	3224	3226	3210	3193	3161	3126
Average New Car	3207	3283	3306	3332	3373	3380	3354	3356	3358	3324	3303	3273	3245
Conventional Light Trucks													
Small Pickup	4206	4191	4235	4279	4308	4326	4295	4277	4261	4259	4235	4233	4229
Large Pickup	5328	5419	5474	5529	5568	5593	5546	5537	5530	5517	5496	5500	5499
Small Van	4379	4438	4483	4526	4541	4544	4513	4450	4420	4418	4369	4374	4373
Large Van	4827	4809	4858	4904	4933	4952	4929	4876	4823	4802	4768	4762	4742
Small Utility	4017	3993	4034	4073	4070	4056	4004	3954	3923	3921	3897	3896	3890
Large Utility	5235	5154	5206	5257	5296	5330	5318	5284	5240	5207	5146	5130	5101
Average New Light Truck	4747	4725	4774	4822	4838	4852	4820	4784	4754	4740	4702	4698	4687
Average Weight for the Stock													
Conventional Cars	3304	3381	3376	3374	3375	3374	3372	3370	3369	3367	3363	3358	3352
Conventional Light Trucks	4328	4372	4410	4447	4483	4520	4554	4583	4606	4626	4642	4654	4664

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Personal Vehicles														
EPA Rated New Vehicle Fuel Efficiency														
Conventional Cars (MPG)														
Minicompact	35.5	36.1	37.2	37.2	37.1	37.1	37.1	37.1	37.0	37.0	37.0	37.0	37.0	1.0%
Subcompact	39.4	40.2	41.7	41.8	41.8	41.7	41.7	41.7	41.6	41.6	41.6	41.5	41.5	1.2%
Compact	42.5	43.6	45.0	45.2	45.1	45.1	45.1	45.0	45.0	45.0	45.0	44.9	44.9	1.2%
Midsize	37.7	38.7	39.6	39.7	39.7	39.7	39.7	39.6	39.6	39.6	39.6	39.5	39.5	1.1%
Large	35.1	36.1	37.2	37.4	37.4	37.3	37.3	37.3	37.3	37.3	37.2	37.2	37.2	1.0%
Two Seater	31.3	31.9	32.8	32.9	32.9	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	1.0%
Average New Car	38.1	39.1	40.3	40.3	40.3	40.3	40.3	40.3	40.2	40.2	40.2	40.2	40.1	1.1%
Average New Car On-Road MPG	31.5	32.3	33.3	33.4	33.5	33.5	33.5	33.5	33.5	33.6	33.6	33.6	33.6	1.2%
Conventional Light Trucks														
Small Pickup	29.7	30.0	31.0	31.1	31.3	31.4	31.5	31.6	31.7	31.7	31.6	31.6	31.6	1.3%
Large Pickup	26.0	26.3	26.7	26.8	26.9	27.0	27.2	27.2	27.3	27.2	27.2	27.2	27.2	1.0%
Small Van	30.6	30.9	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	1.0%
Large Van	29.7	30.0	31.2	31.3	31.4	31.5	31.6	31.7	31.7	31.7	31.7	31.8	31.8	1.2%
Small Utility	32.2	32.5	33.8	33.9	34.0	34.2	34.3	34.5	34.5	34.5	34.5	34.5	34.5	1.2%
Large Utility	25.6	25.8	26.3	26.4	26.5	26.6	26.8	26.9	26.9	26.9	26.9	26.9	26.9	1.0%
Average New Light Truck	28.3	28.6	29.4	29.5	29.6	29.8	29.9	30.0	30.0	30.0	30.0	30.0	30.0	1.1%
Average New LT On-Road MPG	23.1	23.4	24.0	24.2	24.3	24.4	24.5	24.7	24.7	24.8	24.8	24.8	24.8	1.2%
Degradation Factors 1/														
Cars	0.826	0.827	0.828	0.829	0.830	0.831	0.832	0.833	0.834	0.835	0.836	0.837	0.838	0.1%
Light Trucks	0.816	0.817	0.818	0.819	0.820	0.821	0.822	0.823	0.824	0.825	0.826	0.827	0.828	0.1%
New Fuel Efficiency by Size Class 2/														
Alternative-Fuel Cars														
Minicompact	33.5	34.2	35.7	35.7	35.7	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	--
Subcompact	43.9	46.0	47.9	47.7	47.9	48.4	48.7	48.6	48.7	48.8	48.8	48.9	48.9	-1.0%
Compact	47.5	49.6	51.1	51.0	51.1	51.4	51.6	51.5	51.6	51.6	51.6	51.7	51.7	0.3%
Midsize	44.2	45.6	46.5	46.5	46.6	46.8	46.9	46.8	46.9	46.9	46.9	46.9	47.0	0.9%
Large	40.8	42.3	43.4	43.5	43.5	43.7	43.8	43.8	43.9	43.9	43.9	43.9	43.9	1.7%
Two Seater	34.9	36.3	37.3	36.9	37.2	37.9	38.2	38.2	38.4	38.5	38.5	38.7	38.7	0.2%
Average New Alternative Cars	44.0	45.6	46.8	46.7	46.8	47.1	47.2	47.2	47.2	47.2	47.2	47.3	47.3	0.9%
Alternative-Fuel Light Trucks														
Small Pickup	30.1	30.4	32.9	33.6	33.9	34.6	34.9	35.0	35.2	35.3	35.4	35.5	35.5	1.8%
Large Pickup	27.5	28.1	28.6	28.6	28.8	29.1	29.3	29.4	29.5	29.6	29.6	29.6	29.6	1.3%
Small Van	34.1	35.0	36.3	35.9	36.1	36.5	36.8	36.8	36.9	36.9	36.9	37.0	37.0	1.6%
Large Van	33.5	34.1	35.4	35.3	35.5	35.9	36.1	36.2	36.3	36.3	36.4	36.4	36.5	1.7%
Small Utility	35.4	36.2	37.8	37.8	38.1	38.4	38.6	38.7	38.8	38.9	38.9	38.9	38.9	-0.6%
Large Utility	28.0	28.6	29.3	29.3	29.4	29.7	30.0	30.1	30.2	30.2	30.2	30.3	30.3	1.0%
Average New Alt. Light Trucks	30.9	31.6	32.6	32.6	32.8	33.2	33.4	33.6	33.7	33.7	33.7	33.8	33.8	1.5%
Fleet Vehicles														
EPA Rated New Vehicle Fuel Efficiency														
Cars	38.6	39.6	40.8	40.9	40.8	40.8	40.8	40.8	40.7	40.7	40.7	40.7	40.6	1.1%
Light Trucks	27.8	28.1	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.3	29.3	29.3	29.3	1.1%

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average On-Road MPG														
Cars	29.8	30.9	32.0	32.8	33.4	33.7	33.9	33.9	33.9	33.9	34.0	34.0	34.0	1.5%
Light Trucks	21.7	22.2	22.6	23.0	23.4	23.6	23.8	24.0	24.1	24.1	24.2	24.3	24.3	1.5%
New Vehicle Sales Shares (%)														
Conventional Cars														
Minicompact	1.677	1.701	1.703	1.634	1.671	1.663	1.658	1.667	1.665	1.667	1.672	1.673	1.669	0.0%
Subcompact	10.890	11.106	11.038	10.712	10.942	10.894	10.861	10.921	10.904	10.919	10.953	10.955	10.929	0.0%
Compact	25.472	25.967	25.962	25.203	25.682	25.580	25.510	25.627	25.596	25.625	25.690	25.692	25.638	0.0%
Midsize	38.026	37.702	37.663	38.194	37.859	37.928	37.973	37.897	37.918	37.899	37.855	37.856	37.894	0.0%
Large	21.590	21.196	21.299	21.940	21.537	21.625	21.686	21.578	21.607	21.581	21.521	21.516	21.562	0.0%
Two Seater	2.345	2.328	2.335	2.316	2.309	2.310	2.311	2.310	2.310	2.309	2.309	2.308	2.309	0.0%
Conventional Light Trucks														
Small Pickup	7.739	7.707	7.666	7.946	7.821	7.860	7.890	7.851	7.874	7.871	7.853	7.851	7.867	0.0%
Large Pickup	19.427	19.489	19.506	19.467	19.521	19.515	19.509	19.530	19.512	19.516	19.523	19.525	19.524	0.0%
Small Van	6.240	6.375	6.240	6.200	6.313	6.284	6.269	6.295	6.291	6.298	6.315	6.315	6.301	0.0%
Large Van	8.672	8.750	8.633	8.764	8.774	8.772	8.772	8.775	8.780	8.792	8.794	8.793	8.794	0.0%
Small Utility	28.616	28.467	28.591	28.540	28.464	28.478	28.484	28.464	28.469	28.460	28.449	28.449	28.455	0.0%
Large Utility	29.307	29.212	29.365	29.083	29.107	29.096	29.076	29.085	29.075	29.063	29.066	29.066	29.061	0.0%
New Vehicle Average Horsepower														
Conventional Cars														
Minicompact	218	218	217	217	217	218	218	218	219	219	220	220	220	0.3%
Subcompact	186	186	188	189	189	189	190	190	190	191	191	191	192	0.7%
Compact	173	174	172	172	173	173	173	173	173	174	174	174	174	0.4%
Midsize	220	219	218	219	219	219	220	220	220	221	221	221	221	0.6%
Large	260	262	260	261	262	262	262	263	263	264	264	264	265	0.5%
Two Seater	301	301	299	300	301	301	302	303	303	304	305	306	307	0.3%
Average New Car	215	215	214	215	215	215	216	216	216	216	217	217	217	0.5%
Conventional Light Trucks														
Small Pickup	230	230	229	229	229	229	230	230	230	230	231	231	231	0.3%
Large Pickup	299	299	300	300	300	300	301	301	302	303	304	305	306	0.4%
Small Van	218	219	221	222	222	223	223	224	224	225	225	226	226	0.6%
Large Van	239	240	239	240	240	240	240	240	241	241	241	242	242	0.3%
Small Utility	202	202	203	203	203	203	203	204	204	205	205	205	206	0.3%
Large Utility	280	280	282	283	283	283	283	284	285	285	286	286	287	0.4%
Average New Light Truck	250	250	251	252	252	252	252	252	253	254	254	255	255	0.4%
New Vehicle Average Weight														
Conventional Cars														
Minicompact	3040	3018	2969	2972	2975	2978	2981	2984	2987	2990	2993	2996	2999	-0.2%
Subcompact	2855	2834	2805	2806	2809	2812	2815	2817	2820	2823	2826	2829	2831	-0.2%
Compact	2892	2878	2847	2846	2849	2852	2855	2858	2861	2863	2866	2869	2872	-0.2%
Midsize	3285	3244	3215	3216	3219	3222	3226	3229	3232	3235	3239	3242	3245	-0.1%
Large	3648	3619	3583	3583	3586	3590	3593	3597	3600	3604	3607	3610	3613	-0.1%
Two Seater	3092	3070	3045	3046	3049	3052	3055	3058	3061	3064	3067	3069	3072	-0.1%
Average New Car	3208	3175	3144	3152	3150	3154	3158	3160	3164	3166	3169	3172	3175	-0.1%
Conventional Light Trucks														
Small Pickup	4215	4211	4190	4191	4192	4196	4198	4201	4205	4211	4217	4223	4229	0.0%
Large Pickup	5498	5499	5495	5498	5503	5504	5507	5511	5518	5525	5533	5541	5549	0.1%
Small Van	4354	4357	4318	4323	4328	4333	4338	4342	4347	4352	4357	4361	4365	-0.1%
Large Van	4728	4732	4716	4721	4725	4728	4730	4732	4735	4741	4746	4751	4757	0.0%
Small Utility	3876	3874	3846	3849	3852	3851	3851	3852	3855	3859	3864	3868	3872	-0.1%
Large Utility	5084	5086	5072	5077	5082	5084	5085	5085	5089	5095	5101	5107	5113	0.0%
Average New Light Truck	4675	4677	4659	4660	4665	4667	4668	4670	4674	4680	4686	4692	4697	0.0%
Average Weight for the Stock														
Conventional Cars	3344	3333	3322	3310	3298	3286	3275	3264	3254	3245	3236	3228	3222	-0.2%
Conventional Light Trucks	4671	4677	4680	4682	4683	4682	4684	4683	4682	4682	4682	4683	4683	0.3%

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

1/ Conversion factor used to convert Environmental Protection Agency rated to "on road" miles per gallon.

2/ Environmental Protection Agency rated miles per gallon.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: National Highway Traffic and Safety Administration, Final Fuel Economy Reports from Auto Manufacturers; Federal Highway Administration, Highway Statistics 2006 (Washington, DC, 2007); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 52. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	337.34	409.41	480.63	531.90	578.04	576.12	583.19	588.86	592.86	588.20	574.50	551.32	523.93
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	5.30	6.42	7.65	8.57	9.40	10.27	10.36	10.39	10.43	10.40	10.23	9.90	9.48
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.74	0.76	0.78	0.79	0.82	0.85	0.86	0.87	0.87	0.86	0.84	0.81	0.78
Compressed Natural Gas Bi-fuel	1.08	1.27	1.44	1.61	1.78	1.93	2.05	2.14	2.19	2.19	2.16	2.13	2.09
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.41	0.34	0.21	0.18	0.17	0.15	0.15	0.14	0.11	0.11	0.10	0.10	0.10
Electric	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	344.93	418.27	490.77	543.10	590.24	589.35	596.63	602.42	606.49	601.77	587.85	564.29	536.39
Light Trucks 1/													
Conventional Gasoline	462.30	570.62	663.37	707.55	739.47	759.88	676.89	645.87	639.01	632.14	620.73	608.96	597.01
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	18.38	21.98	24.43	24.90	24.90	24.54	23.17	21.94	21.47	21.24	20.96	20.59	20.20
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	2.11	2.35	2.45	2.53	2.41	2.39	2.39	2.35	2.31	2.27	2.17	2.08	2.02
Compressed Natural Gas Bi-fuel	4.77	5.45	5.74	6.00	5.78	5.81	5.85	5.80	5.75	5.66	5.44	5.21	5.06
Liquefied Petroleum Gases	1.50	1.31	1.12	0.90	0.70	0.49	0.35	0.22	0.13	0.08	0.07	0.07	0.07
Liquefied Petroleum Gases Bi-fuel	7.70	6.87	5.96	4.74	3.65	2.37	1.63	0.92	0.42	0.15	0.10	0.09	0.08
Electric	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	496.82	608.65	703.13	746.68	776.96	795.54	710.33	677.15	669.14	661.58	649.49	637.04	624.46
Total Fleet Vehicles	841.75	1026.92	1193.91	1289.78	1367.21	1384.89	1306.96	1279.57	1275.63	1263.35	1237.34	1201.33	1160.85
Commercial Light Trucks 2/	610.08	617.92	619.93	606.07	606.75	615.86	625.14	631.15	632.68	633.53	635.09	637.53	636.81

Table 52. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	497.84	476.31	461.20	451.81	448.62	449.16	452.41	457.32	462.55	467.84	473.15	478.41	483.80	0.7%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	9.01	8.63	8.33	8.14	8.06	8.02	8.05	8.12	8.21	8.30	8.39	8.48	8.57	1.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	0.75	0.73	0.71	0.69	0.68	0.67	0.67	0.68	0.68	0.69	0.69	0.70	0.70	-0.3%
Compressed Natural Gas Bi-fuel	2.05	2.01	1.97	1.93	1.90	1.89	1.88	1.89	1.90	1.91	1.92	1.93	1.95	1.8%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases Bi-fuel	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-5.3%
Electric	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-4.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	509.77	487.79	472.31	462.68	459.35	459.85	463.12	468.11	473.45	478.84	484.26	489.62	495.13	0.7%
Light Trucks 1/														
Conventional Gasoline	582.35	568.55	551.99	538.85	528.95	522.86	519.50	521.06	522.19	524.61	527.91	531.42	535.60	-0.3%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	19.73	19.30	18.78	18.37	18.07	17.81	17.66	17.64	17.67	17.74	17.84	17.95	18.08	-0.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	1.96	1.90	1.85	1.80	1.76	1.74	1.73	1.73	1.73	1.73	1.73	1.74	1.74	-1.2%
Compressed Natural Gas Bi-fuel	4.92	4.77	4.64	4.50	4.42	4.38	4.35	4.34	4.33	4.33	4.34	4.35	4.36	-0.9%
Liquefied Petroleum Gases	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-11.6%
Liquefied Petroleum Gases Bi-fuel	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-18.5%
Electric	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-3.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Trucks	609.12	594.68	577.41	563.67	553.35	546.93	543.39	544.91	546.06	548.56	551.96	555.60	559.94	-0.3%
Total Fleet Vehicles	1118.89	1082.46	1049.73	1026.34	1012.70	1006.78	1006.51	1013.03	1019.51	1027.39	1036.22	1045.22	1055.07	0.1%
Commercial Light Trucks 2/	635.49	633.99	631.20	630.25	628.24	627.94	627.77	627.22	629.34	631.86	634.52	638.18	643.25	0.2%

Table 52. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (trillion Btu)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 53. Transportation Fleet Car and Truck Sales by Type and Technology (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	1492.37	1410.00	1420.61	1397.82	1409.15	1442.20	1490.28	1518.91	1508.64	1485.18	1455.80	1428.60	1409.73
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	22.42	21.18	21.34	21.00	21.17	21.66	22.39	22.82	22.66	22.31	21.87	21.46	21.18
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	1.15	1.09	1.10	1.08	1.09	1.11	1.15	1.17	1.17	1.15	1.13	1.10	1.09
Compressed Natural Gas Bi-fuel	2.16	2.04	2.06	2.03	2.04	2.09	2.16	2.20	2.19	2.15	2.11	2.07	2.04
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.17	0.16	0.17	0.16	0.16	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.16
Electric	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	1518.36	1434.56	1445.35	1422.17	1433.69	1467.32	1516.24	1545.37	1534.92	1511.05	1481.16	1453.48	1434.29
Light Trucks 1/													
Conventional Gasoline	1222.13	1386.14	1188.93	986.88	969.52	999.23	1014.84	1019.15	1038.90	1035.31	1053.65	1052.58	1045.45
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	38.90	44.12	37.84	31.41	30.86	31.80	32.30	32.44	33.07	32.95	33.54	33.50	33.28
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	2.04	2.31	1.98	1.65	1.62	1.67	1.69	1.70	1.73	1.73	1.76	1.75	1.74
Compressed Natural Gas Bi-fuel	4.28	4.85	4.16	3.46	3.40	3.50	3.55	3.57	3.64	3.63	3.69	3.69	3.66
Liquefied Petroleum Gases	0.06	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Liquefied Petroleum Gases Bi-fuel	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Electric	0.08	0.10	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	1267.54	1437.64	1233.10	1023.54	1005.54	1036.35	1052.54	1057.01	1077.50	1073.78	1092.80	1091.69	1084.30
Total Fleet Vehicles	2785.90	2872.20	2678.45	2445.71	2439.23	2503.67	2568.78	2602.38	2612.42	2584.83	2573.96	2545.18	2518.58
Commercial Light Trucks 2/	663.61	632.03	610.83	571.82	591.65	616.17	650.00	661.06	663.46	655.69	655.64	656.89	650.58

Table 53. Transportation Fleet Car and Truck Sales by Type and Technology (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	1408.68	1419.26	1446.31	1449.98	1469.70	1489.32	1506.05	1524.55	1543.46	1561.12	1578.98	1596.86	1617.37	0.6%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	21.16	21.32	21.73	21.78	22.08	22.37	22.62	22.90	23.19	23.45	23.72	23.99	24.30	0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	1.09	1.10	1.12	1.12	1.14	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.25	0.6%
Compressed Natural Gas Bi-fuel	2.04	2.06	2.10	2.10	2.13	2.16	2.18	2.21	2.24	2.26	2.29	2.32	2.35	0.6%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Liquefied Petroleum Gases Bi-fuel	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.6%
Electric	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	1433.22	1443.98	1471.50	1475.24	1495.30	1515.26	1532.28	1551.11	1570.34	1588.31	1606.48	1624.68	1645.54	0.6%
Light Trucks 1/														
Conventional Gasoline	1031.76	1020.68	1001.37	1020.30	1021.70	1025.07	1033.87	1042.11	1052.26	1063.65	1071.59	1079.09	1090.42	-1.0%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	32.84	32.49	31.87	32.47	32.52	32.63	32.91	33.17	33.49	33.85	34.11	34.35	34.71	-1.0%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	1.72	1.70	1.67	1.70	1.70	1.71	1.72	1.74	1.75	1.77	1.79	1.80	1.82	-1.0%
Compressed Natural Gas Bi-fuel	3.61	3.57	3.51	3.57	3.58	3.59	3.62	3.65	3.68	3.72	3.75	3.78	3.82	-1.0%
Liquefied Petroleum Gases	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-1.0%
Liquefied Petroleum Gases Bi-fuel	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.0%
Electric	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-1.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Trucks	1070.09	1058.60	1038.57	1058.21	1059.66	1063.15	1072.28	1080.83	1091.36	1103.17	1111.40	1119.19	1130.93	-1.0%
Total Fleet Vehicles	2503.31	2502.58	2510.07	2533.45	2554.96	2578.41	2604.56	2631.94	2661.70	2691.48	2717.88	2743.86	2776.47	-0.1%
Commercial Light Trucks 2/	646.17	645.13	645.11	652.48	657.61	663.44	670.35	677.54	685.40	693.45	700.38	707.22	715.87	0.5%

Table 53. Transportation Fleet Car and Truck Sales by Type and Technology (thousands)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 54. Transportation Fleet Car and Truck Stock by Type and Technology (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	4302.50	4820.95	5301.25	5712.80	6060.95	5933.31	6025.41	6141.45	6235.94	6282.16	6259.21	6182.11	6087.88
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	64.70	73.04	81.51	88.70	95.59	103.01	104.17	105.70	107.32	108.38	108.48	107.50	105.90
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	10.18	9.83	9.55	9.34	9.28	9.34	9.46	9.62	9.68	9.65	9.60	9.58	9.53
Compressed Natural Gas Bi-fuel	14.71	15.58	16.47	17.35	18.30	19.33	20.34	21.32	21.97	22.27	22.42	22.66	22.80
Liquefied Petroleum Gases	3.04	2.22	1.12	0.77	0.56	0.38	0.29	0.20	0.05	0.02	0.01	0.01	0.00
Liquefied Petroleum Gases Bi-fuel	5.45	4.20	2.44	1.98	1.76	1.57	1.51	1.43	1.19	1.16	1.14	1.15	1.15
Electric	2.30	2.06	1.75	1.43	1.16	0.98	0.87	0.80	0.80	0.79	0.76	0.72	0.59
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	4402.88	4927.89	5414.10	5832.37	6187.60	6067.93	6162.05	6280.53	6376.96	6424.43	6401.61	6323.73	6227.85
Light Trucks 1/													
Conventional Gasoline	4197.04	4822.44	5269.79	5467.82	5587.93	5664.25	5070.27	4908.93	4955.88	5018.68	5072.46	5109.69	5134.69
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	178.74	190.31	196.05	193.42	188.53	183.14	174.09	167.13	166.71	168.54	170.53	171.86	172.69
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	19.20	20.22	20.38	20.53	19.11	18.69	18.56	18.47	18.51	18.53	18.25	17.97	17.88
Compressed Natural Gas Bi-fuel	40.32	42.98	43.80	44.62	42.14	41.74	41.89	42.02	42.37	42.61	42.02	41.36	41.14
Liquefied Petroleum Gases	13.29	10.80	8.98	7.01	5.48	3.74	2.69	1.69	1.00	0.61	0.58	0.60	0.61
Liquefied Petroleum Gases Bi-fuel	66.27	53.55	44.18	34.12	26.30	17.42	11.99	6.84	3.20	1.13	0.79	0.74	0.63
Electric	1.78	1.68	1.56	1.43	1.34	1.27	1.22	1.17	1.03	0.90	0.80	0.73	0.65
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	4516.64	5141.99	5584.75	5768.95	5870.82	5930.26	5320.72	5146.26	5188.70	5251.01	5305.42	5342.96	5368.29
Total Fleet Vehicles	8919.52	10069.88	10998.85	11601.32	12058.43	11998.19	11482.77	11426.79	11565.65	11675.44	11707.03	11666.68	11596.15
Commercial Light Trucks 2/													
	7792.46	7621.97	7566.94	7554.70	7607.39	7706.56	7845.18	7992.32	8134.61	8259.24	8372.55	8475.53	8560.97

Table 54. Transportation Fleet Car and Truck Stock by Type and Technology (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	6008.89	5966.48	5976.70	6009.47	6066.24	6135.82	6200.87	6277.44	6353.18	6429.19	6505.65	6581.46	6659.25	1.4%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	104.45	103.53	103.45	103.81	104.70	105.88	107.13	108.29	109.65	110.97	112.28	113.60	114.95	1.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	9.55	9.55	9.58	9.58	9.60	9.65	9.70	9.77	9.84	9.91	9.99	10.08	10.18	0.1%
Compressed Natural Gas Bi-fuel	23.16	23.42	23.72	23.74	23.78	23.88	23.98	24.10	24.21	24.32	24.47	24.65	24.87	2.0%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-33.5%
Liquefied Petroleum Gases Bi-fuel	1.16	1.16	1.17	1.17	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.26	-4.9%
Electric	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.63	0.63	-4.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	6147.80	6104.73	6115.21	6148.36	6206.08	6277.00	6343.46	6421.40	6498.69	6576.23	6654.25	6731.66	6811.15	1.4%
Light Trucks 1/														
Conventional Gasoline	5127.76	5112.00	5060.68	5029.47	5006.94	5000.98	5014.56	5053.45	5085.55	5126.91	5172.52	5216.94	5264.31	0.4%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	172.65	172.12	170.66	169.66	168.88	168.56	168.89	169.94	171.14	172.47	173.95	175.44	177.03	-0.3%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	17.79	17.61	17.46	17.24	17.14	17.15	17.19	17.23	17.27	17.34	17.41	17.49	17.57	-0.6%
Compressed Natural Gas Bi-fuel	40.88	40.42	40.05	39.50	39.25	39.29	39.38	39.47	39.57	39.70	39.84	40.01	40.18	-0.3%
Liquefied Petroleum Gases	0.62	0.63	0.65	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	-11.0%
Liquefied Petroleum Gases Bi-fuel	0.55	0.50	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.49	-17.8%
Electric	0.65	0.67	0.69	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	-3.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Trucks	5360.91	5343.94	5290.68	5257.67	5234.00	5227.78	5241.82	5281.88	5315.34	5358.23	5405.53	5451.70	5500.92	0.3%
Total Fleet Vehicles	11508.71	11448.67	11405.88	11406.02	11440.08	11504.77	11585.28	11703.28	11814.03	11934.46	12059.78	12183.36	12312.07	0.8%
Commercial Light Trucks 2/	8632.43	8693.86	8746.79	8799.16	8849.26	8898.09	8947.00	8995.41	9045.35	9098.06	9153.29	9212.00	9277.00	0.8%

Table 54. Transportation Fleet Car and Truck Stock by Type and Technology (thousands)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 55. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (billion miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	65.07	79.94	93.55	105.72	116.95	118.27	121.68	124.13	126.12	127.03	126.49	124.85	122.90
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	0.98	1.21	1.44	1.64	1.84	2.05	2.10	2.14	2.17	2.19	2.19	2.17	2.14
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.20	0.20	0.19	0.19	0.19
Compressed Natural Gas Bi-fuel	0.22	0.26	0.29	0.32	0.35	0.39	0.41	0.43	0.44	0.45	0.45	0.46	0.46
Liquefied Petroleum Gases	0.05	0.04	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.08	0.07	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
Electric	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	66.59	81.71	95.55	107.93	119.40	120.95	124.44	126.95	128.97	129.91	129.37	127.71	125.73
Light Trucks 1/													
Conventional Gasoline	63.47	79.96	93.00	101.19	107.83	112.90	102.39	99.22	100.23	101.48	102.51	103.19	103.66
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	2.70	3.16	3.46	3.58	3.64	3.65	3.52	3.38	3.37	3.41	3.45	3.47	3.49
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.29	0.34	0.36	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36
Compressed Natural Gas Bi-fuel	0.61	0.71	0.77	0.83	0.81	0.83	0.85	0.85	0.86	0.86	0.85	0.84	0.83
Liquefied Petroleum Gases	0.20	0.18	0.16	0.13	0.11	0.07	0.05	0.03	0.02	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases Bi-fuel	1.00	0.89	0.78	0.63	0.51	0.35	0.24	0.14	0.06	0.02	0.02	0.01	0.01
Electric	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Truck	68.31	85.26	98.56	106.76	113.28	118.21	107.45	104.02	104.94	106.18	107.21	107.90	108.37
Total Fleet Vehicles	134.89	166.97	194.10	214.69	232.68	239.16	231.88	230.97	233.91	236.08	236.58	235.61	234.10
Commercial Light Trucks 2/	68.60	70.50	71.62	70.68	71.43	73.13	74.96	76.58	77.85	79.10	80.64	82.27	83.67

Table 55. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (billion miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	121.29	120.45	120.69	121.40	122.58	124.01	125.33	126.89	128.43	129.97	131.52	133.05	134.62	2.2%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	2.11	2.09	2.09	2.10	2.12	2.14	2.17	2.19	2.22	2.24	2.27	2.30	2.32	2.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.21	1.0%
Compressed Natural Gas Bi-fuel	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	2.8%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-32.9%
Liquefied Petroleum Gases Bi-fuel	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	-4.1%
Electric	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-4.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	124.10	123.25	123.49	124.21	125.41	126.87	128.21	129.80	131.37	132.94	134.52	136.09	137.69	2.2%
Light Trucks 1/														
Conventional Gasoline	103.51	103.20	102.20	101.60	101.18	101.08	101.35	102.15	102.80	103.64	104.57	105.46	106.42	1.2%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	3.49	3.47	3.45	3.43	3.41	3.41	3.41	3.44	3.46	3.49	3.52	3.55	3.58	0.5%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.2%
Compressed Natural Gas Bi-fuel	0.83	0.82	0.81	0.80	0.79	0.79	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.5%
Liquefied Petroleum Gases	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10.3%
Liquefied Petroleum Gases Bi-fuel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-17.1%
Electric	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Truck	108.21	107.89	106.84	106.21	105.77	105.66	105.95	106.77	107.45	108.32	109.28	110.21	111.21	1.1%
Total Fleet Vehicles	232.31	231.13	230.33	230.42	231.17	232.52	234.16	236.57	238.82	241.26	243.80	246.30	248.90	1.7%
Commercial Light Trucks 2/	85.02	86.19	87.41	88.73	90.02	91.38	92.77	94.27	95.75	97.19	98.54	99.90	101.39	1.5%

Table 55. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (billion miles)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 56. Air Travel Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cost (1987 dollars per million Btu)	8.4	9.3	9.4	9.9	10.2	9.9	9.7	9.2	8.8	8.6	8.3	8.0	8.0
Yield-domestic (ticket price) 1/	10.2	10.5	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.7	10.7
Yield-international (1996 dollars) 1/	9.3	9.6	9.7	9.7	9.6	9.6	9.6	9.6	9.6	9.6	9.7	9.7	9.7
Yield-Non U.S. (1996 dollars) 1/ 4/	9.3	9.6	9.7	9.7	9.6	9.6	9.6	9.6	9.6	9.6	9.7	9.7	9.7
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	584.0	568.5	566.7	575.5	588.7	611.5	635.3	651.6	658.3	667.6	677.4	688.2	698.6
Load Factor, Domestic 2/	0.77	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81
Revenue Passenger Miles, International	210.7	217.9	238.2	257.7	278.5	301.4	326.2	347.4	364.0	378.3	392.7	406.5	420.2
Load Factor, International 2/	0.78	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Revenue Passenger Miles, Non U.S.	1702.0	1833.8	1830.9	1880.1	1952.9	2036.3	2132.1	2233.6	2337.5	2442.7	2548.5	2663.9	2783.8
Load Factor, Non U.S. 2/	0.78	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Revenue Ton Miles, Freight US (billion)	37.5	37.4	36.8	37.9	39.1	39.9	40.7	41.8	43.2	45.0	47.1	49.3	51.6
Revenue Ton Miles, Freight Non US (billion)	37.5	37.5	41.2	42.8	44.5	45.8	47.2	48.9	51.0	53.6	56.6	59.8	63.1
Revenue Ton Miles, Freight World (billion)	0.0	0.0	78.1	80.7	83.7	85.7	87.8	90.6	94.1	98.6	103.7	109.1	114.7
Seat Miles Demanded (billion)													
Narrow Body Aircraft - US	628.5	608.2	607.6	619.0	635.7	662.5	690.9	714.7	725.2	737.8	750.8	764.7	778.1
Wide Body Aircraft - US	284.7	277.4	293.8	311.1	330.2	352.4	376.7	397.1	411.8	424.6	437.6	450.2	462.7
Regional Jets - US	115.4	108.2	106.9	108.2	110.6	115.0	119.7	123.7	125.3	127.5	129.8	132.3	134.8
US Total Seat Miles Demanded	1028.6	993.8	1008.3	1038.3	1076.5	1130.0	1187.2	1235.5	1262.3	1289.9	1318.2	1347.2	1375.6
Narrow Body Aircraft - Non US	1435.6	1522.1	1482.3	1500.6	1543.1	1596.5	1661.1	1730.9	1803.1	1876.6	1950.8	2032.5	2117.5
Wide Body Aircraft - Non US	614.8	649.5	644.4	658.4	680.8	706.9	737.1	769.2	801.9	834.9	867.8	903.9	941.1
Regional Jets - Non US	258.8	256.9	253.6	259.7	269.9	282.1	296.4	311.8	327.8	344.4	361.3	379.8	399.3
Non US Total Seat Miles Demanded	2309.2	2428.5	2380.3	2418.6	2493.8	2585.5	2694.6	2811.9	2932.9	3055.8	3179.9	3316.1	3457.9
Narrow Body Aircraft - World	2064.1	2130.3	2090.0	2119.6	2178.8	2259.1	2352.0	2445.6	2528.4	2614.4	2701.5	2797.1	2895.6
Wide Body Aircraft - World	899.5	926.9	938.2	969.5	1011.0	1059.3	1113.8	1166.3	1213.7	1259.5	1305.5	1354.1	1403.8
Regional Jets - World	374.2	365.0	360.5	367.9	380.5	397.1	416.0	435.4	453.2	471.9	491.1	512.2	534.1
World Total Seat Miles Demanded	3337.8	3422.2	3388.7	3457.0	3570.3	3715.4	3881.8	4047.3	4195.3	4345.7	4498.1	4663.3	4833.5
Aircraft Sales													
Narrow Body Aircraft - US	120.0	136.0	142.8	144.2	144.5	153.4	156.4	149.7	142.4	137.3	135.3	135.1	131.4
Wide Body Aircraft - US	10.0	17.0	37.8	38.5	38.9	41.7	42.8	41.3	39.7	38.5	38.3	38.5	37.8
Regional Jets - US	192.0	94.0	105.0	105.7	105.6	111.8	113.6	108.4	102.8	98.7	97.0	96.5	93.6
US Total Aircraft Sales	322.0	247.0	285.5	288.4	289.0	306.9	312.8	299.5	284.8	274.5	270.7	270.1	262.9
Narrow Body Aircraft - Non US	383.0	506.0	390.9	366.0	355.8	324.0	314.6	305.9	295.7	300.3	303.6	323.8	346.7
Wide Body Aircraft - Non US	142.0	171.0	103.4	97.7	95.8	88.0	86.2	84.5	82.3	84.3	86.0	92.4	99.7
Regional Jets - Non US	92.0	123.0	287.5	268.3	260.0	236.0	228.4	221.5	213.4	216.0	217.7	231.4	246.9
Non US Total Aircraft Sales	617.0	800.0	781.8	731.9	711.7	648.0	629.2	611.9	591.4	600.5	607.3	647.6	693.3
Narrow Body Aircraft - World	503.0	642.0	533.7	510.2	500.3	477.5	471.0	455.7	438.1	437.5	439.0	458.9	478.1
Wide Body Aircraft - World	152.0	188.0	141.2	136.2	134.7	129.6	129.0	125.8	122.0	122.8	124.3	131.0	137.5
Regional Jets - World	284.0	217.0	392.4	374.0	365.6	347.8	342.0	329.8	316.1	314.7	314.7	327.9	340.6
World Total Aircraft Sales	939.0	1047.0	1067.3	1020.4	1000.7	954.9	942.0	911.3	876.3	875.1	878.0	917.7	956.2

Table 56. Air Travel Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Aircraft Stock													
Narrow Body Aircraft - US	4707.0	4537.0	4562.2	4615.5	4673.3	4751.3	4834.3	4909.0	4966.0	5019.5	5054.1	5096.3	5165.6
Wide Body Aircraft - US	1371.0	1378.0	1391.6	1402.0	1408.9	1414.8	1419.0	1427.3	1437.2	1443.6	1451.7	1459.4	1466.5
Regional Jets - US	2009.0	2047.0	2101.0	2172.4	2248.9	2338.7	2429.2	2510.0	2571.8	2629.3	2684.2	2736.5	2783.1
US Total Aircraft Stock	8087.0	7962.0	8054.8	8189.9	8331.0	8504.8	8682.5	8846.3	8974.9	9092.4	9190.1	9292.2	9415.2
Narrow Body Aircraft - Non US	6756.0	7299.0	7642.6	7938.1	8205.8	8422.1	8621.4	8812.7	9005.8	9193.1	9378.3	9566.9	9754.2
Wide Body Aircraft - Non US	3077.0	3187.0	3263.2	3328.6	3386.5	3431.1	3468.7	3492.5	3505.3	3517.2	3523.1	3529.8	3538.0
Regional Jets - Non US	1469.0	1594.0	1887.0	2146.0	2388.1	2594.3	2788.0	2972.3	3153.8	3327.2	3498.7	3678.2	3866.1
Non US Total Aircraft Stock	11302.0	12080.0	12792.9	13412.8	13980.4	14447.5	14878.2	15277.5	15664.9	16037.5	16400.1	16774.9	17158.3
Narrow Body Aircraft - World	11463.0	11836.0	12204.8	12553.7	12879.1	13173.4	13455.7	13721.7	13971.8	14212.6	14432.5	14663.2	14919.8
Wide Body Aircraft - World	4448.0	4565.0	4654.8	4730.6	4795.4	4845.9	4887.7	4919.8	4942.4	4960.9	4974.8	4989.2	5004.5
Regional Jets - World	3478.0	3641.0	3988.0	4318.4	4636.9	4933.0	5217.2	5482.3	5725.6	5956.5	6182.9	6414.7	6649.2
World Total Aircraft Stock	19389.0	20042.0	20847.7	21602.7	22311.4	22952.2	23560.7	24123.8	24639.9	25130.0	25590.2	26067.1	26573.5
Aircraft Active Stock													
Narrow Body Aircraft - US	3941.0	3969.0	4007.6	4085.3	4179.5	4324.8	4482.9	4622.6	4696.2	4788.2	4890.3	5002.1	5104.3
Wide Body Aircraft - US	1114.0	1184.0	1221.5	1255.2	1287.1	1320.7	1354.6	1380.2	1393.6	1402.3	1411.1	1419.1	1426.5
Regional Jets - US	1898.0	1929.0	1892.1	1900.9	1928.4	1989.3	2053.9	2106.2	2118.0	2138.4	2160.3	2185.7	2209.8
US Total Aircraft Active Stock	6953.0	7082.0	7121.2	7241.4	7395.0	7634.8	7891.3	8108.9	8207.7	8328.9	8461.7	8607.0	8740.6
Narrow Body Aircraft - Non US	6334.0	6902.0	7373.9	7722.3	8020.9	8278.0	8509.7	8710.6	8908.0	9109.7	9316.0	9519.9	9717.2
Wide Body Aircraft - Non US	2915.0	3056.0	3167.0	3265.7	3346.8	3403.1	3445.3	3470.5	3485.6	3497.7	3504.7	3514.5	3525.7
Regional Jets - Non US	1273.0	1418.0	1677.3	1915.3	2142.3	2342.2	2531.1	2709.5	2876.5	3042.7	3207.5	3382.9	3570.4
Non US Total Aircraft Active Stock	10522.0	11376.0	12218.3	12903.4	13510.0	14023.4	14486.1	14890.6	15270.1	15650.2	16028.1	16417.3	16813.4
Narrow Body Aircraft - World	10275.0	10871.0	11381.5	11807.6	12200.4	12602.8	12992.6	13333.3	13604.2	13897.8	14206.3	14522.0	14821.5
Wide Body Aircraft - World	4029.0	4240.0	4388.5	4520.9	4634.0	4723.8	4799.9	4850.7	4879.2	4900.0	4915.8	4933.6	4952.3
Regional Jets - World	3171.0	3347.0	3569.5	3816.2	4070.7	4331.5	4584.9	4815.6	4994.5	5181.1	5367.8	5568.6	5780.2
World Total Aircraft Active Stock	17475.0	18458.0	19339.4	20144.8	20905.1	21658.2	22377.4	22999.5	23477.8	23979.0	24489.9	25024.2	25553.9
Aircraft Parked Stock													
Narrow Body Aircraft - US	766.0	568.0	554.6	530.2	493.8	426.5	351.4	286.3	269.8	231.3	163.8	94.2	61.3
Wide Body Aircraft - US	257.0	194.0	170.1	146.7	121.7	94.0	64.4	47.1	43.6	41.3	40.6	40.3	40.0
Regional Jets - US	111.0	118.0	208.9	271.5	320.5	349.4	375.3	403.9	453.8	490.9	523.9	550.8	573.3
US Total Aircraft Parked Stock	1134.0	880.0	933.6	948.5	935.9	870.0	791.2	737.3	767.2	763.6	728.3	685.3	674.6
Narrow Body Aircraft - Non US	422.0	397.0	268.7	215.8	184.9	144.0	111.7	102.1	97.8	83.4	62.3	47.0	37.0
Wide Body Aircraft - Non US	162.0	131.0	96.2	62.9	39.7	28.0	23.4	22.0	19.7	19.5	18.4	15.3	12.3
Regional Jets - Non US	196.0	176.0	209.6	230.7	245.8	252.1	256.9	262.8	277.3	284.4	291.2	295.3	295.7
Non US Total Aircraft Parked Stock	780.0	704.0	574.6	509.4	470.4	424.1	392.1	386.9	394.8	387.4	372.0	357.6	344.9
Narrow Body Aircraft - World	1188.0	965.0	823.3	746.0	678.7	570.6	463.1	388.4	367.6	314.8	226.2	141.2	98.3
Wide Body Aircraft - World	419.0	325.0	266.3	209.7	161.4	122.0	87.8	69.1	63.2	60.8	59.0	55.6	52.3
Regional Jets - World	307.0	294.0	418.5	502.2	566.2	601.5	632.3	666.7	731.1	775.3	815.1	846.1	869.0
World Total Aircraft Parked Stock	1914.0	1584.0	1508.2	1457.9	1406.3	1294.0	1183.2	1124.2	1162.0	1151.0	1100.3	1042.9	1019.6
Aircraft Cargo Stock													
Narrow Body Aircraft - US	626.0	574.0	642.2	681.5	708.4	730.5	757.0	792.3	837.1	881.8	920.4	961.5	1002.2
Wide Body Aircraft - US	604.0	651.0	655.7	655.0	648.8	638.1	623.7	608.9	593.8	577.9	561.7	545.8	529.5
Regional Jets - US	1.0	1.0	1.4	1.3	1.2	1.2	1.1	1.1	1.3	1.4	1.6	2.0	2.4
US Total Aircraft Cargo Stock	1231.0	1226.0	1299.3	1337.8	1358.4	1369.8	1381.8	1402.4	1432.1	1461.1	1483.7	1509.3	1534.1
Narrow Body Aircraft - Non US	379.0	398.0	538.1	643.7	721.4	779.4	819.5	851.0	883.1	926.8	985.2	1061.5	1153.7
Wide Body Aircraft - Non US	382.0	409.0	436.1	459.6	478.7	494.1	505.5	514.9	524.7	538.5	556.3	578.0	605.1
Regional Jets - Non US	34.0	33.0	36.8	40.0	42.4	44.1	45.2	45.9	46.3	46.4	46.7	47.2	48.2
Non US Total Aircraft Cargo Stock	795.0	840.0	1010.9	1143.3	1242.5	1317.6	1370.2	1411.8	1454.2	1511.7	1588.2	1686.7	1807.0
Narrow Body Aircraft - World	1005.0	972.0	1180.3	1325.2	1429.7	1509.9	1576.5	1643.3	1720.2	1808.6	1905.6	2023.0	2155.9
Wide Body Aircraft - World	986.0	1060.0	1091.7	1114.6	1127.5	1132.2	1129.1	1123.8	1118.5	1116.4	1118.0	1123.8	1134.6
Regional Jets - World	35.0	34.0	38.2	41.3	43.6	45.3	46.4	47.0	47.6	47.8	48.3	49.2	50.6
World Total Aircraft Cargo Stock	2026.0	2066.0	2310.3	2481.1	2600.9	2687.4	2752.0	2814.2	2886.2	2972.8	3071.9	3196.0	3341.1

Table 56. Air Travel Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.62	0.79	0.87	0.93	0.95	0.97	0.98	0.99	0.99	1.00
Propfan	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weight Reducing Materials	0.00	0.00	0.01	0.02	0.04	0.08	0.14	0.25	0.40	0.57	0.73	0.85	0.92
New Aircraft Efficiency 3/ 5/													
Narrow Body Aircraft	65.4	66.1	66.6	66.8	67.0	67.2	67.4	67.6	67.8	68.0	68.2	68.5	68.7
Wide Body Aircraft	63.6	64.2	64.1	64.3	64.4	64.6	64.8	65.0	65.2	65.4	65.6	65.8	66.0
Regional Jets	43.1	43.5	43.8	43.9	44.0	44.2	44.3	44.4	44.6	44.7	44.8	45.0	45.1
Average Aircraft	62.4	63.1	62.4	62.6	62.9	63.1	63.3	63.5	63.7	63.9	64.1	64.3	64.5
Aircraft Stock Efficiency 3/ 5/													
Narrow Body Aircraft	64.5	65.8	66.5	67.1	67.5	67.9	68.2	68.5	69.0	69.3	69.7	70.1	70.6
Wide Body Aircraft	60.1	61.4	61.8	62.3	62.7	63.1	63.3	63.7	64.3	64.8	65.3	65.8	66.3
Regional Jets	44.1	44.3	44.5	44.7	44.9	45.0	45.2	45.3	45.4	45.6	45.7	45.8	45.9
Average Aircraft	60.9	62.2	62.2	62.7	63.1	63.5	63.7	64.1	64.5	64.9	65.3	65.7	66.1
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel - US	2688.1	2614.0	2628.3	2683.3	2761.4	2870.2	2987.7	3087.2	3138.4	3198.1	3261.1	3326.4	3388.5
Jet Fuel - Non US	5358.4	5593.6	5658.4	5711.9	5855.4	6036.0	6255.6	6491.0	6723.9	6969.8	7218.1	7491.4	7770.3
Jet Fuel - World	8046.5	8207.6	8286.8	8395.3	8616.8	8906.2	9243.3	9578.2	9862.3	10168.0	10479.1	10817.8	11158.8
Aviation Gasoline - US	35.1	33.0	32.0	29.0	32.7	32.6	32.5	32.4	32.4	32.3	32.2	32.2	32.2
Military													
Jet Fuel - US	531.5	543.7	561.7	585.6	582.4	572.8	564.7	559.5	557.8	558.7	560.9	563.7	566.6

Table 56. Air Travel Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cost (1987 dollars per million Btu)	8.1	8.2	8.3	8.4	8.5	8.6	8.8	8.9	9.0	9.2	9.4	9.5	9.6	0.1%
Yield-domestic (ticket price) 1/	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.8	0.1%
Yield-international (1996 dollars) 1/	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	0.1%
Yield-Non U.S. (1996 dollars) 1/ 4/	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	0.1%
Travel Demand (billion miles)														
Revenue Passenger Miles, Domestic	708.8	718.8	728.7	738.4	748.0	757.3	766.3	775.1	783.6	791.7	799.4	806.8	813.6	1.5%
Load Factor, Domestic 2/	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.1%
Revenue Passenger Miles, International	433.5	446.5	459.0	471.0	482.5	493.5	503.8	513.5	522.5	530.8	538.4	545.2	551.2	3.9%
Load Factor, International 2/	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.1%
Revenue Passenger Miles, Non U.S.	2905.6	3028.3	3151.3	3286.3	3426.6	3569.4	3713.3	3857.8	4012.7	4176.1	4347.4	4526.3	4713.0	4.0%
Load Factor, Non U.S. 2/	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.1%
Revenue Ton Miles, Freight US (billion)	54.0	56.4	58.9	61.5	64.2	66.9	69.9	73.1	76.4	80.0	83.8	87.7	91.7	3.8%
Revenue Ton Miles, Freight Non US (billion)	66.6	70.3	74.0	77.9	82.0	86.3	91.0	96.0	101.3	107.0	113.0	119.3	126.0	5.2%
Revenue Ton Miles, Freight World (billion)	120.6	126.7	132.9	139.4	146.2	153.3	160.8	169.1	177.7	187.0	196.8	207.0	217.7	--
Seat Miles Demanded (billion)														
Narrow Body Aircraft - US	791.3	804.1	816.7	829.0	840.9	852.5	863.6	874.3	884.5	894.2	903.2	911.7	919.5	1.7%
Wide Body Aircraft - US	474.9	486.7	498.1	509.1	519.6	529.6	539.1	547.9	556.1	563.7	570.5	576.5	581.8	3.1%
Regional Jets - US	137.2	139.7	142.1	144.5	146.9	149.2	151.5	153.8	156.0	158.1	160.2	162.2	164.1	1.8%
US Total Seat Miles Demanded	1403.4	1430.5	1456.9	1482.6	1507.4	1531.4	1554.3	1576.1	1596.7	1616.0	1633.9	1650.4	1665.4	2.2%
Narrow Body Aircraft - Non US	2204.0	2291.2	2378.6	2475.0	2575.2	2677.2	2779.9	2882.9	2993.5	3110.4	3232.9	3360.9	3494.5	3.5%
Wide Body Aircraft - Non US	978.8	1016.5	1054.1	1095.4	1138.2	1181.5	1224.9	1268.2	1314.6	1363.5	1414.5	1467.8	1523.1	3.6%
Regional Jets - Non US	419.4	439.9	460.8	483.7	507.7	532.5	557.8	583.6	611.3	640.8	671.8	704.5	738.9	4.5%
Non US Total Seat Miles Demanded	3602.2	3747.6	3893.5	4054.0	4221.2	4391.3	4562.7	4734.7	4919.5	5114.6	5319.2	5533.2	5756.5	3.7%
Narrow Body Aircraft - World	2995.3	3095.4	3195.3	3303.9	3416.2	3529.7	3643.6	3757.2	3878.1	4004.5	4136.1	4272.6	4414.0	3.1%
Wide Body Aircraft - World	1453.6	1503.2	1552.2	1604.5	1657.8	1711.2	1764.0	1816.1	1870.7	1927.1	1985.0	2044.3	2104.9	3.5%
Regional Jets - World	556.6	579.6	602.9	628.2	654.6	681.8	709.4	737.4	767.3	798.9	832.0	866.8	903.1	3.8%
World Total Seat Miles Demanded	5005.6	5178.1	5350.4	5536.6	5728.6	5922.6	6117.0	6310.7	6516.1	6730.6	6953.1	7183.7	7422.0	3.3%
Aircraft Sales														
Narrow Body Aircraft - US	127.5	122.5	117.8	112.7	108.2	102.6	98.6	97.0	96.2	96.7	98.1	101.3	108.6	-0.9%
Wide Body Aircraft - US	37.0	35.8	34.7	33.5	32.4	30.9	30.0	29.7	29.7	30.1	30.7	32.0	34.8	3.0%
Regional Jets - US	90.5	86.7	83.1	79.2	75.8	71.6	68.6	67.3	66.5	66.7	67.4	69.4	73.9	-1.0%
US Total Aircraft Sales	254.9	245.0	235.6	225.3	216.4	205.1	197.2	194.1	192.4	193.4	196.2	202.7	217.3	-0.5%
Narrow Body Aircraft - Non US	371.4	397.5	425.0	451.9	481.7	513.4	546.6	581.0	615.8	653.0	692.3	733.8	777.4	1.8%
Wide Body Aircraft - Non US	107.7	116.2	125.2	134.2	144.1	154.8	166.1	177.9	190.0	202.9	216.7	231.4	248.8	1.6%
Regional Jets - Non US	263.7	281.3	299.8	317.7	337.5	358.6	380.5	403.1	425.9	450.1	475.6	502.4	528.6	6.3%
Non US Total Aircraft Sales	742.7	795.1	849.9	903.7	963.3	1026.8	1093.2	1162.0	1231.6	1306.0	1384.6	1467.6	1554.8	2.8%
Narrow Body Aircraft - World	498.8	520.0	542.7	564.5	589.9	616.0	645.2	678.0	712.0	749.7	790.4	835.1	886.1	1.4%
Wide Body Aircraft - World	144.7	152.0	159.9	167.6	176.5	185.7	196.0	207.6	219.6	233.0	247.5	263.4	283.5	1.7%
Regional Jets - World	354.2	368.0	382.8	396.9	413.4	430.2	449.2	470.5	492.4	516.7	543.0	571.7	602.5	4.3%
World Total Aircraft Sales	997.7	1040.1	1085.5	1129.1	1179.7	1231.9	1290.4	1356.1	1424.0	1499.4	1580.9	1670.2	1772.1	2.2%

Table 56. Air Travel Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Aircraft Stock														
Narrow Body Aircraft - US	5242.9	5308.5	5362.7	5403.2	5441.4	5483.3	5527.7	5581.0	5626.4	5661.0	5685.2	5697.2	5699.5	1.0%
Wide Body Aircraft - US	1467.1	1467.0	1462.4	1460.0	1455.6	1452.6	1452.5	1457.4	1459.0	1457.4	1450.1	1440.8	1430.8	0.2%
Regional Jets - US	2823.9	2858.4	2886.8	2908.5	2922.1	2925.5	2919.6	2905.1	2881.9	2850.2	2810.2	2762.1	2708.1	1.2%
US Total Aircraft Stock	9533.9	9634.0	9711.9	9771.7	9819.1	9861.4	9899.8	9943.5	9967.3	9968.6	9945.5	9900.1	9838.4	0.9%
Narrow Body Aircraft - Non US	9961.5	10188.8	10440.6	10713.5	10998.7	11291.6	11595.0	11909.1	12245.8	12614.8	13015.2	13453.7	13932.2	2.7%
Wide Body Aircraft - Non US	3551.2	3569.3	3591.9	3620.5	3654.4	3690.2	3729.8	3773.5	3822.9	3881.1	3950.3	4036.8	4145.6	1.1%
Regional Jets - Non US	4063.4	4269.4	4484.7	4708.4	4944.7	5192.3	5453.7	5732.3	6024.5	6331.7	6653.4	6992.1	7348.9	6.6%
Non US Total Aircraft Stock	17576.1	18027.4	18517.3	19042.4	19597.7	20174.1	20778.6	21414.9	22093.2	22827.5	23619.0	24482.6	25426.7	3.1%
Narrow Body Aircraft - World	15204.5	15497.3	15803.3	16116.7	16440.1	16774.8	17122.7	17490.1	17872.2	18275.8	18700.4	19150.9	19631.8	2.1%
Wide Body Aircraft - World	5018.3	5036.3	5054.3	5080.5	5110.0	5142.8	5182.3	5231.0	5281.9	5338.5	5400.4	5477.6	5576.4	0.8%
Regional Jets - World	6887.3	7127.8	7371.5	7616.9	7866.7	8117.8	8373.3	8637.4	8906.5	9181.9	9463.6	9754.2	10057.0	4.3%
World Total Aircraft Stock	27110.0	27661.4	28229.2	28814.1	29416.9	30035.5	30678.4	31358.4	32060.5	32796.1	33564.4	34382.7	35265.1	2.4%
Aircraft Active Stock														
Narrow Body Aircraft - US	5194.7	5270.6	5330.9	5376.0	5417.2	5461.5	5509.3	5563.8	5613.4	5651.8	5679.4	5694.0	5697.5	1.5%
Wide Body Aircraft - US	1430.3	1431.4	1430.1	1427.8	1425.4	1425.4	1428.5	1433.4	1438.0	1440.4	1439.1	1433.8	1424.8	0.8%
Regional Jets - US	2233.1	2255.9	2278.3	2300.8	2323.8	2348.1	2374.4	2403.4	2435.1	2468.8	2503.3	2536.6	2566.3	1.2%
US Total Aircraft Active Stock	8858.1	8957.9	9039.2	9104.5	9166.5	9235.1	9312.2	9400.6	9486.5	9561.0	9621.8	9664.3	9688.6	1.3%
Narrow Body Aircraft - Non US	9927.5	10158.8	10414.6	10693.5	10981.7	11276.6	11582.0	11896.1	12232.8	12601.8	13005.2	13446.7	13929.2	3.0%
Wide Body Aircraft - Non US	3543.0	3561.1	3585.9	3614.5	3650.4	3687.2	3726.8	3770.5	3819.9	3878.1	3948.3	4035.8	4144.6	1.3%
Regional Jets - Non US	3770.5	3982.8	4207.3	4441.8	4688.7	4949.4	5225.4	5517.6	5825.2	6149.1	6488.6	6843.4	7213.8	7.0%
Non US Total Aircraft Active Stock	17241.0	17702.7	18207.8	18749.8	19320.7	19913.2	20534.2	21184.2	21877.9	22629.0	23442.1	24326.0	25287.6	3.4%
Narrow Body Aircraft - World	15122.3	15429.4	15745.5	16069.5	16398.9	16738.1	17091.4	17459.9	17846.2	18253.6	18684.6	19140.7	19626.7	2.5%
Wide Body Aircraft - World	4973.3	4992.5	5016.0	5042.2	5075.9	5112.6	5155.3	5203.9	5257.9	5318.5	5387.4	5469.6	5569.4	1.1%
Regional Jets - World	6003.5	6238.6	6485.5	6742.6	7012.5	7297.5	7599.8	7921.0	8260.3	8617.9	8991.9	9380.1	9780.1	4.6%
World Total Aircraft Active Stock	26099.1	26660.6	27247.0	27854.4	28487.2	29148.3	29846.4	30584.8	31364.3	32190.0	33063.9	33990.3	34976.3	2.7%
Aircraft Parked Stock														
Narrow Body Aircraft - US	48.2	37.9	31.9	27.2	24.2	21.7	18.4	17.2	13.0	9.2	5.8	3.3	2.0	-20.9%
Wide Body Aircraft - US	36.8	35.6	32.3	32.2	30.2	27.2	24.1	24.0	21.0	17.0	11.0	7.0	6.0	-13.5%
Regional Jets - US	590.8	602.6	608.5	607.7	598.3	577.5	545.2	501.8	446.9	381.5	306.9	225.5	141.8	0.8%
US Total Aircraft Parked Stock	675.8	676.1	672.7	667.2	652.7	626.3	587.6	543.0	480.9	407.7	323.7	235.8	149.8	-7.1%
Narrow Body Aircraft - Non US	34.0	30.0	26.0	20.0	17.0	15.0	13.0	13.0	13.0	13.0	10.0	7.0	3.0	-18.4%
Wide Body Aircraft - Non US	8.2	8.2	6.0	6.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	1.0	1.0	-18.4%
Regional Jets - Non US	292.9	286.6	277.4	266.6	256.0	242.9	228.3	214.7	199.3	182.5	164.8	148.7	135.1	-1.1%
Non US Total Aircraft Parked Stock	335.1	324.8	309.4	292.6	277.0	260.9	244.3	230.7	215.3	198.5	176.8	156.7	139.1	-6.5%
Narrow Body Aircraft - World	82.2	67.9	57.9	47.2	41.2	36.7	31.4	30.2	26.0	22.2	15.8	10.3	5.0	-19.7%
Wide Body Aircraft - World	45.0	43.7	38.3	38.2	34.2	30.2	27.1	27.0	24.0	20.0	13.0	8.0	7.0	-14.8%
Regional Jets - World	883.7	889.2	886.0	874.3	854.3	820.3	773.5	716.4	646.2	564.0	471.7	374.1	276.8	-0.3%
World Total Aircraft Parked Stock	1010.9	1000.8	982.1	959.7	929.7	887.2	832.0	773.7	696.2	606.2	500.5	392.4	288.9	-6.8%
Aircraft Cargo Stock														
Narrow Body Aircraft - US	1048.6	1083.8	1108.6	1121.6	1133.0	1150.2	1172.6	1206.5	1235.7	1256.8	1270.5	1275.5	1274.0	3.4%
Wide Body Aircraft - US	507.4	485.3	459.6	437.0	413.3	392.1	375.0	364.2	351.3	336.7	317.9	298.4	280.0	-3.5%
Regional Jets - US	3.0	3.7	4.7	6.6	9.9	15.3	23.8	36.1	52.4	72.0	93.9	116.0	136.1	22.7%
US Total Aircraft Cargo Stock	1559.0	1572.8	1572.9	1565.2	1556.2	1557.5	1571.4	1606.8	1639.4	1665.6	1682.2	1689.9	1690.1	1.3%
Narrow Body Aircraft - Non US	1245.8	1330.2	1406.0	1478.7	1554.9	1642.4	1735.6	1834.0	1936.0	2036.9	2130.3	2220.4	2314.1	7.6%
Wide Body Aircraft - Non US	634.6	664.5	693.3	724.3	758.1	790.7	818.3	839.5	852.8	857.4	852.2	841.9	830.0	3.0%
Regional Jets - Non US	49.8	51.7	53.8	55.8	57.8	60.1	63.3	68.2	74.3	80.8	86.7	91.4	95.2	4.5%
Non US Total Aircraft Cargo Stock	1930.1	2046.4	2153.1	2258.8	2370.9	2493.1	2617.2	2741.8	2863.1	2975.1	3069.2	3153.7	3239.3	5.8%
Narrow Body Aircraft - World	2294.4	2414.0	2514.5	2600.2	2688.0	2792.5	2908.2	3040.5	3171.7	3293.8	3400.7	3495.8	3588.0	5.6%
Wide Body Aircraft - World	1142.0	1149.8	1153.0	1161.3	1171.4	1182.8	1193.3	1203.7	1204.1	1194.1	1170.1	1140.4	1110.0	0.2%
Regional Jets - World	52.7	55.4	58.6	62.4	67.7	75.4	87.1	104.4	126.7	152.8	180.5	207.4	231.3	8.3%
World Total Aircraft Cargo Stock	3489.1	3619.2	3726.1	3824.0	3927.1	4050.7	4188.6	4348.6	4502.5	4640.6	4751.4	4843.6	4929.4	3.7%

Table 56. Air Travel Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Advanced Technology Penetration														
Ultra-high Bypass	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	28.4%
Propfan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9%
Thermodynamics	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.09	0.19	0.35	0.56	25.3%
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Weight Reducing Materials	0.96	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	24.7%
New Aircraft Efficiency 3/ 5/														
Narrow Body Aircraft	68.9	69.1	69.3	69.5	69.7	69.9	70.1	70.3	70.5	70.8	71.0	71.2	71.4	0.3%
Wide Body Aircraft	66.1	66.3	66.5	66.7	66.9	67.1	67.3	67.5	67.7	67.9	68.1	68.3	68.5	0.3%
Regional Jets	45.2	45.4	45.5	45.6	45.8	45.9	46.0	46.2	46.3	46.5	46.6	46.7	46.9	0.3%
Average Aircraft	64.7	64.9	65.0	65.2	65.4	65.6	65.8	66.0	66.2	66.4	66.6	66.8	67.0	0.2%
Aircraft Stock Efficiency 3/ 5/														
Narrow Body Aircraft	71.0	71.5	71.9	72.2	72.6	73.0	73.3	73.7	74.1	74.5	74.8	75.1	75.4	0.6%
Wide Body Aircraft	66.8	67.2	67.5	67.9	68.2	68.5	68.9	69.2	69.5	69.8	70.0	70.3	70.5	0.6%
Regional Jets	46.1	46.2	46.3	46.4	46.4	46.5	46.6	46.6	46.7	46.7	46.8	46.8	46.9	0.2%
Average Aircraft	66.5	66.9	67.2	67.5	67.8	68.1	68.4	68.7	69.0	69.3	69.6	69.8	70.0	0.5%
Fuel Consumption (trillion Btu)														
Commercial														
Jet Fuel - US	3451.7	3514.3	3577.0	3639.8	3702.6	3763.9	3824.5	3885.0	3944.6	4004.6	4064.9	4124.5	4184.3	2.0%
Jet Fuel - Non US	8056.5	8345.8	8637.7	8961.5	9299.9	9642.8	9988.4	10336.2	10710.3	11108.2	11528.8	11971.1	12436.4	3.4%
Jet Fuel - World	11508.2	11860.1	12214.7	12601.3	13002.5	13406.7	13812.9	14221.2	14654.9	15112.7	15593.7	16095.6	16620.8	3.0%
Aviation Gasoline - US	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	-0.1%
Military														
Jet Fuel - US	569.6	572.6	575.6	578.6	581.6	584.5	587.4	590.3	593.2	596.0	598.8	601.5	604.2	0.4%

Table 56. Air Travel Energy Use

1/ 1992 cents per passenger mile.

2/ Fraction of seats filled.

3/ Seat miles per gallon.

4/ Assumed to be the same as International US.

5/ Non US Efficiency assumed equal to US Efficiency.

Btu = British thermal unit.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 (Oak Ridge, TN, 2007); U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 2005/2006 (Washington, DC, 2005); Energy Information Administration (EIA), State Energy Data Report 2004, DOE/EIA-0214(2004) (Washington, DC, June 2007); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 2005; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 57. Freights Transportation Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	34.66	34.96	35.42	35.35	35.51	36.74	37.71	38.19	38.52	39.03	39.72	40.44	41.02
Motor Gasoline	14.12	13.65	13.67	13.18	12.73	12.73	12.63	12.46	12.28	12.21	12.21	12.23	12.23
Liquefied Petroleum Gases	0.35	0.37	0.39	0.42	0.45	0.48	0.51	0.52	0.52	0.52	0.53	0.53	0.53
Compressed Natural Gas	0.25	0.32	0.41	0.50	0.63	0.78	0.94	1.10	1.25	1.39	1.54	1.67	1.79
Medium Subtotal	49.38	49.30	49.90	49.45	49.32	50.74	51.79	52.27	52.58	53.15	54.00	54.87	55.56
Heavy													
Diesel	176.79	183.60	186.64	186.47	189.60	196.30	203.21	208.53	212.68	216.48	220.96	225.56	229.35
Motor Gasoline	1.80	1.84	1.90	1.88	1.88	1.93	1.98	2.03	2.06	2.10	2.15	2.21	2.26
Liquefied Petroleum Gases	0.18	0.21	0.22	0.23	0.25	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.24
Compressed Natural Gas	0.24	0.32	0.38	0.45	0.56	0.67	0.80	0.93	1.04	1.12	1.19	1.26	1.31
Heavy Subtotal	179.01	185.97	189.14	189.03	192.30	199.16	206.26	211.75	216.06	219.97	224.56	229.28	233.16
Total Vehicle Miles Traveled	228.39	235.27	239.04	238.48	241.62	249.89	258.05	264.02	268.63	273.12	278.56	284.15	288.73
Consumption (trillion Btu)													
Medium													
Diesel	519.48	522.80	529.05	527.49	529.41	547.28	560.97	567.31	571.29	577.80	587.28	597.00	604.77
Motor Gasoline	205.95	198.62	198.61	191.10	184.17	183.83	181.94	178.97	175.96	174.42	174.01	173.77	173.14
Liquefied Petroleum Gases	6.35	6.48	6.82	7.16	7.56	8.09	8.41	8.49	8.48	8.47	8.47	8.42	8.33
Compressed Natural Gas	4.06	5.20	6.51	7.99	9.99	12.31	14.85	17.34	19.68	21.91	24.13	26.25	28.11
Medium Subtotal	735.84	733.10	740.98	733.73	731.12	751.50	766.17	772.11	775.41	782.60	793.89	805.44	814.36
Heavy													
Diesel	3970.12	4118.05	4182.75	4176.27	4241.49	4383.04	4519.72	4609.40	4662.17	4700.17	4747.39	4794.28	4821.50
Motor Gasoline	31.18	31.73	32.60	32.15	32.19	32.93	33.70	34.40	34.97	35.56	36.33	37.20	38.00
Liquefied Petroleum Gases	3.35	3.78	4.04	4.21	4.47	4.67	4.79	4.81	4.75	4.64	4.51	4.39	4.25
Compressed Natural Gas	4.18	5.58	6.71	7.88	9.77	11.59	13.79	16.00	17.90	19.34	20.59	21.70	22.55
Heavy Subtotal	4008.83	4159.14	4226.09	4220.51	4287.92	4432.23	4572.00	4664.61	4719.80	4759.70	4808.82	4857.57	4886.30
Medium and Heavy Total													
Diesel	4489.60	4640.85	4711.80	4703.75	4770.90	4930.32	5080.69	5176.71	5233.46	5277.97	5334.67	5391.28	5426.28
Motor Gasoline	237.14	230.35	231.21	223.24	216.36	216.76	215.64	213.37	210.93	209.97	210.34	210.96	211.14
Liquefied Petroleum Gases	9.70	10.26	10.86	11.36	12.03	12.75	13.20	13.30	13.24	13.11	12.98	12.82	12.58
Compressed Natural Gas	8.24	10.78	13.21	15.87	19.76	23.90	28.64	33.35	37.59	41.25	44.72	47.95	50.66
Total	4744.68	4892.24	4967.07	4954.23	5019.04	5183.72	5338.16	5436.72	5495.21	5542.30	5602.71	5663.01	5700.66

Table 57. Freights Transportation Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.37	8.39	8.40	8.41	8.42	8.43	8.45	8.46	8.48	8.50	8.51	8.53	8.54
Motor Gasoline	8.56	8.58	8.59	8.61	8.63	8.65	8.67	8.69	8.72	8.74	8.76	8.79	8.82
Liquefied Petroleum Gases	6.93	7.06	7.17	7.26	7.35	7.42	7.49	7.55	7.60	7.66	7.71	7.76	7.80
Compressed Natural Gas	7.72	7.77	7.82	7.85	7.88	7.90	7.92	7.94	7.95	7.96	7.96	7.97	7.98
Medium Average	8.41	8.43	8.44	8.45	8.46	8.47	8.49	8.50	8.52	8.54	8.55	8.57	8.58
Heavy													
Diesel	5.57	5.58	5.58	5.58	5.59	5.60	5.62	5.66	5.71	5.76	5.82	5.88	5.95
Motor Gasoline	7.23	7.26	7.28	7.30	7.31	7.33	7.35	7.36	7.38	7.39	7.41	7.42	7.43
Liquefied Petroleum Gases	6.69	6.82	6.88	6.93	6.99	7.02	7.06	7.09	7.12	7.14	7.16	7.18	7.20
Compressed Natural Gas	7.08	7.14	7.17	7.20	7.22	7.23	7.24	7.25	7.25	7.26	7.26	7.26	7.26
Heavy Average	5.58	5.59	5.60	5.60	5.61	5.62	5.64	5.68	5.73	5.78	5.84	5.90	5.97
Average	6.02	6.01	6.02	6.02	6.02	6.03	6.05	6.07	6.11	6.16	6.22	6.28	6.33
Stock (millions)													
Medium													
Diesel	2.28	2.36	2.41	2.44	2.49	2.53	2.58	2.63	2.69	2.73	2.77	2.80	2.84
Motor Gasoline	1.90	1.87	1.83	1.78	1.75	1.71	1.68	1.65	1.63	1.60	1.58	1.56	1.54
Liquefied Petroleum Gases	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Compressed Natural Gas	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12
Medium Subtotal	4.24	4.30	4.31	4.30	4.33	4.33	4.36	4.41	4.45	4.47	4.50	4.52	4.55
Heavy													
Diesel	4.61	4.82	4.89	4.95	5.08	5.15	5.28	5.44	5.59	5.70	5.80	5.90	6.00
Motor Gasoline	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Liquefied Petroleum Gases	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Compressed Natural Gas	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07
Heavy Subtotal	4.95	5.15	5.21	5.26	5.39	5.46	5.60	5.76	5.91	6.03	6.13	6.24	6.34
Total Stock	9.19	9.45	9.52	9.56	9.72	9.80	9.96	10.17	10.36	10.50	10.63	10.76	10.89
New Trucks by Size Class													
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.51	8.50	8.51	8.51	8.51	8.57	8.61	8.66	8.66	8.67	8.67	8.66	8.66
Motor Gasoline	8.94	8.94	8.93	8.95	8.97	8.99	9.02	9.04	9.07	9.10	9.15	9.19	9.24
Liquefied Petroleum Gases	7.97	7.95	7.98	8.01	8.06	8.13	8.20	8.26	8.31	8.35	8.39	8.43	8.46
Compressed Natural Gas	7.95	7.94	7.94	7.95	7.97	7.98	7.99	8.00	8.00	8.00	8.00	8.00	8.00
Medium Average	8.58	8.57	8.57	8.57	8.57	8.62	8.65	8.70	8.70	8.71	8.72	8.72	8.73
Heavy													
Diesel	5.63	5.61	5.62	5.63	5.65	5.71	5.79	5.90	6.04	6.18	6.29	6.35	6.42
Motor Gasoline	7.50	7.50	7.50	7.51	7.51	7.51	7.51	7.51	7.50	7.50	7.50	7.50	7.50
Liquefied Petroleum Gases	7.28	7.28	7.28	7.28	7.28	7.28	7.34	7.35	7.36	7.37	7.37	7.37	7.37
Compressed Natural Gas	7.27	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.64	5.63	5.64	5.65	5.68	5.73	5.82	5.92	6.06	6.21	6.31	6.37	6.44
Average	5.98	5.94	5.99	6.00	6.00	6.07	6.14	6.23	6.36	6.50	6.60	6.65	6.72

Table 57. Freights Transportation Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Sales (millions)													
Medium													
Diesel	0.15	0.15	0.12	0.12	0.14	0.13	0.15	0.16	0.16	0.15	0.15	0.15	0.15
Motor Gasoline	0.06	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.22	0.23	0.18	0.17	0.21	0.19	0.22	0.23	0.23	0.22	0.22	0.22	0.22
Heavy													
Diesel	0.36	0.39	0.27	0.26	0.34	0.29	0.35	0.39	0.39	0.35	0.35	0.36	0.36
Motor Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Heavy Subtotal	0.37	0.41	0.28	0.27	0.36	0.31	0.37	0.41	0.41	0.38	0.37	0.38	0.38
Total Sales	0.60	0.64	0.46	0.44	0.56	0.50	0.59	0.65	0.64	0.60	0.59	0.60	0.61
Railroads													
Ton Miles by Rail (billion)	1587.57	1655.61	1672.80	1666.62	1668.04	1701.78	1760.75	1784.68	1796.36	1811.02	1826.96	1859.93	1876.16
Fuel Efficiency (ton miles per thousand Btu)	2.91	2.92	2.92	2.92	2.92	2.93	2.93	2.93	2.94	2.94	2.94	2.95	2.95
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	545.03	567.82	573.15	570.41	570.29	581.23	600.76	608.29	611.62	615.96	620.72	631.25	636.07
Residual Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Domestic Shipping													
Ton Miles Shipping (billion)	609.67	619.50	630.66	622.64	628.74	642.75	650.95	659.59	664.79	668.90	677.02	685.49	689.43
Fuel Efficiency (ton miles per thousand Btu)	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.99
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	219.47	223.52	223.57	221.37	224.22	229.95	233.65	236.50	238.12	239.33	241.98	244.75	245.89
Residual Fuel Oil	91.17	91.79	97.37	95.03	94.86	95.86	95.94	97.12	97.78	98.29	99.37	100.51	100.98
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
International Shipping													
Gross Trade (billion 2000 dollars)	2427.33	2604.32	2714.06	2845.15	3010.46	3208.98	3422.05	3620.16	3804.63	4011.14	4238.28	4481.03	4728.07
Exports (billion 2000 dollars)	843.50	927.35	1003.91	1112.92	1218.64	1304.85	1387.49	1475.99	1572.66	1684.36	1806.99	1937.76	2076.35
Imports (billion 2000 dollars)	1583.83	1676.97	1710.15	1732.24	1791.81	1904.13	2034.55	2144.17	2231.97	2326.78	2431.29	2543.27	2651.72
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	49.82	50.91	51.18	51.19	51.20	51.23	51.26	51.34	51.40	51.46	51.53	51.60	51.67
Residual Fuel Oil	717.07	724.46	772.30	761.34	750.57	739.96	729.33	730.37	731.28	732.23	733.22	734.22	735.18

Table 57. Freights Transportation Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Existing Trucks by Size Class														
Vehicle Miles Traveled (billion miles)														
Medium														
Diesel	41.69	42.37	43.10	43.83	44.50	45.20	45.90	46.62	47.32	48.02	48.67	49.32	50.01	1.5%
Motor Gasoline	12.27	12.33	12.41	12.49	12.55	12.63	12.71	12.80	12.89	12.99	13.08	13.18	13.30	-0.1%
Liquefied Petroleum Gases	0.52	0.52	0.53	0.54	0.55	0.55	0.56	0.57	0.58	0.59	0.59	0.60	0.60	2.1%
Compressed Natural Gas	1.90	2.01	2.11	2.21	2.30	2.38	2.46	2.52	2.59	2.64	2.69	2.73	2.77	9.3%
Medium Subtotal	56.39	57.23	58.15	59.06	59.90	60.77	61.63	62.51	63.38	64.24	65.04	65.83	66.68	1.3%
Heavy														
Diesel	233.49	237.52	241.73	245.84	249.66	253.51	257.30	261.18	265.07	268.94	272.52	276.01	279.76	1.8%
Motor Gasoline	2.31	2.37	2.42	2.48	2.53	2.59	2.64	2.70	2.76	2.82	2.88	2.94	3.00	2.1%
Liquefied Petroleum Gases	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.7%
Compressed Natural Gas	1.35	1.39	1.43	1.47	1.51	1.54	1.56	1.59	1.61	1.63	1.64	1.65	1.66	7.1%
Heavy Subtotal	237.40	241.51	245.82	250.02	253.93	257.87	261.74	265.70	269.68	273.63	277.29	280.84	284.67	1.8%
Total Vehicle Miles Traveled	293.78	298.74	303.97	309.09	313.83	318.64	323.37	328.21	333.05	337.87	342.33	346.67	351.35	1.7%
Consumption (trillion Btu)														
Medium														
Diesel	613.99	623.36	633.48	643.58	652.98	662.76	671.71	680.88	689.96	699.01	707.42	713.04	719.46	1.3%
Motor Gasoline	173.15	173.39	173.99	174.62	175.08	175.70	176.39	177.24	178.18	179.24	180.25	181.36	182.74	-0.3%
Liquefied Petroleum Gases	8.25	8.22	8.25	8.32	8.40	8.50	8.58	8.66	8.75	8.84	8.93	8.94	8.97	1.4%
Compressed Natural Gas	29.88	31.52	33.12	34.64	36.03	37.33	38.48	39.55	40.53	41.43	42.21	42.80	43.36	9.2%
Medium Subtotal	825.26	836.50	848.83	861.16	872.50	884.29	895.16	906.34	917.43	928.53	938.81	946.14	954.52	1.1%
Heavy														
Diesel	4856.33	4892.66	4935.02	4978.42	5018.92	5063.27	5108.92	5156.99	5207.77	5260.70	5310.40	5360.23	5417.10	1.1%
Motor Gasoline	38.90	39.79	40.71	41.61	42.47	43.36	44.27	45.22	46.19	47.19	48.15	49.11	50.13	1.9%
Liquefied Petroleum Gases	4.13	4.04	4.00	3.99	4.00	4.01	4.03	4.05	4.07	4.09	4.12	4.14	4.17	0.4%
Compressed Natural Gas	23.30	23.98	24.65	25.31	25.92	26.46	26.93	27.33	27.69	28.00	28.23	28.40	28.57	7.0%
Heavy Subtotal	4922.65	4960.46	5004.37	5049.33	5091.31	5137.11	5184.15	5233.58	5285.72	5339.98	5390.89	5441.88	5499.98	1.2%
Medium and Heavy Total														
Diesel	5470.32	5516.02	5568.50	5622.01	5671.90	5726.03	5780.62	5837.87	5897.73	5959.71	6017.81	6073.28	6136.56	1.2%
Motor Gasoline	212.04	213.18	214.69	216.23	217.55	219.06	220.66	222.46	224.37	226.42	228.40	230.47	232.87	0.0%
Liquefied Petroleum Gases	12.37	12.26	12.24	12.30	12.40	12.52	12.61	12.71	12.82	12.94	13.05	13.08	13.14	1.0%
Compressed Natural Gas	53.18	55.50	57.77	59.95	61.95	63.79	65.41	66.89	68.22	69.43	70.44	71.20	71.93	8.2%
Total	5747.91	5796.96	5853.20	5910.49	5963.81	6021.40	6079.31	6139.92	6203.14	6268.51	6329.70	6388.03	6454.50	1.2%

Table 57. Freights Transportation Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Efficiency (gasoline equivalent MPG)														
Medium														
Diesel	8.55	8.56	8.57	8.58	8.59	8.59	8.63	8.66	8.69	8.72	8.75	8.77	8.80	0.2%
Motor Gasoline	8.85	8.87	8.90	8.92	8.94	8.96	8.98	9.00	9.02	9.03	9.05	9.06	9.07	0.2%
Liquefied Petroleum Gases	7.85	7.89	7.93	7.97	8.01	8.04	8.07	8.10	8.13	8.15	8.18	8.20	8.22	0.6%
Compressed Natural Gas	7.98	7.98	7.98	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	8.00	0.1%
Medium Average	8.59	8.60	8.62	8.63	8.64	8.65	8.68	8.70	8.73	8.75	8.77	8.80	8.82	0.2%
Heavy														
Diesel	6.01	6.07	6.13	6.18	6.22	6.26	6.30	6.33	6.37	6.39	6.42	6.44	6.46	0.6%
Motor Gasoline	7.43	7.44	7.45	7.45	7.46	7.46	7.47	7.47	7.48	7.48	7.48	7.48	7.49	0.1%
Liquefied Petroleum Gases	7.21	7.22	7.23	7.25	7.26	7.27	7.28	7.29	7.30	7.31	7.32	7.33	7.34	0.3%
Compressed Natural Gas	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.1%
Heavy Average	6.03	6.09	6.14	6.19	6.24	6.28	6.31	6.35	6.38	6.41	6.43	6.45	6.47	0.6%
Average	6.39	6.45	6.50	6.54	6.58	6.62	6.65	6.69	6.72	6.74	6.76	6.79	6.81	0.5%
Stock (millions)														
Medium														
Diesel	2.87	2.90	2.93	2.96	2.99	3.02	3.05	3.08	3.11	3.14	3.17	3.20	3.23	1.3%
Motor Gasoline	1.52	1.50	1.48	1.47	1.45	1.44	1.43	1.42	1.42	1.41	1.41	1.41	1.41	-1.2%
Liquefied Petroleum Gases	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.2%
Compressed Natural Gas	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	9.1%
Medium Subtotal	4.57	4.59	4.61	4.64	4.66	4.69	4.72	4.75	4.78	4.81	4.85	4.88	4.92	0.6%
Heavy														
Diesel	6.09	6.17	6.26	6.33	6.41	6.49	6.56	6.64	6.71	6.78	6.86	6.93	7.00	1.6%
Motor Gasoline	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.1%
Liquefied Petroleum Gases	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.1%
Compressed Natural Gas	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	8.1%
Heavy Subtotal	6.44	6.53	6.62	6.71	6.79	6.87	6.95	7.04	7.12	7.20	7.27	7.35	7.43	1.5%
Total Stock	11.01	11.13	11.24	11.35	11.46	11.57	11.67	11.78	11.90	12.01	12.12	12.23	12.35	1.1%
New Trucks by Size Class														
Fuel Efficiency (gasoline equivalent MPG)														
Medium														
Diesel	8.66	8.66	8.68	8.68	8.68	8.68	9.05	9.04	9.04	9.05	9.05	9.05	9.05	0.3%
Motor Gasoline	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	0.1%
Liquefied Petroleum Gases	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	0.3%
Compressed Natural Gas	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0.0%
Medium Average	8.73	8.73	8.74	8.75	8.75	8.75	9.02	9.02	9.02	9.03	9.03	9.03	9.03	0.2%
Heavy														
Diesel	6.47	6.48	6.51	6.53	6.54	6.56	6.57	6.61	6.61	6.61	6.61	6.61	6.61	0.7%
Motor Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.51	7.51	7.51	7.51	7.51	7.51	7.51	0.0%
Liquefied Petroleum Gases	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.39	7.39	7.40	7.40	7.40	0.1%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	7.28	7.28	7.28	0.0%
Heavy Average	6.49	6.50	6.53	6.54	6.56	6.58	6.59	6.62	6.63	6.63	6.63	6.63	6.63	0.7%
Average	6.76	6.77	6.80	6.82	6.83	6.84	6.87	6.90	6.90	6.90	6.90	6.93	6.93	0.6%

Table 57. Freights Transportation Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Sales (millions)														
Medium														
Diesel	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.4%
Motor Gasoline	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.2%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.0%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.9%
Medium Subtotal	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.4%
Heavy														
Diesel	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.40	0.1%
Motor Gasoline	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.2%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.6%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.1%
Heavy Subtotal	0.38	0.38	0.38	0.39	0.39	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.42	0.1%
Total Sales	0.61	0.60	0.61	0.61	0.62	0.63	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.3%
Railroads														
Ton Miles by Rail (billion)	1893.79	1912.77	1932.04	1956.30	1975.38	1999.58	2022.58	2042.71	2063.32	2084.04	2107.20	2124.27	2146.76	1.1%
Fuel Efficiency (ton miles per thousand Btu)	2.95	2.95	2.96	2.96	2.96	2.97	2.97	2.97	2.97	2.98	2.98	2.98	2.99	0.1%
Fuel Consumption (trillion Btu)														
Distillate Fuel Oil (diesel)	641.35	647.08	652.89	660.38	666.09	673.52	680.52	686.54	692.71	698.90	705.90	710.83	717.57	1.0%
Residual Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Domestic Shipping														
Ton Miles Shipping (billion)	692.22	694.64	700.52	705.72	709.05	709.68	711.90	713.11	716.76	719.84	719.71	719.42	721.05	0.6%
Fuel Efficiency (ton miles per thousand Btu)	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	0.1%
Fuel Consumption (trillion Btu)														
Distillate Fuel Oil (diesel)	246.62	247.22	249.04	250.62	251.52	251.47	251.99	252.14	253.15	253.96	253.64	253.25	253.55	0.5%
Residual Fuel Oil	101.29	101.53	102.29	102.94	103.31	103.30	103.51	103.58	104.00	104.34	104.21	104.05	104.18	0.5%
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
International Shipping														
Gross Trade (billion 2000 dollars)	4994.08	5272.66	5564.76	5877.74	6212.48	6569.68	6951.21	7360.26	7796.76	8263.43	8764.47	9293.96	9862.20	5.7%
Exports (billion 2000 dollars)	2225.25	2380.79	2543.88	2715.80	2898.76	3091.56	3297.90	3521.14	3758.87	4014.27	4287.99	4577.69	4886.24	7.2%
Imports (billion 2000 dollars)	2768.83	2891.87	3020.88	3161.94	3313.72	3478.12	3653.31	3839.13	4037.89	4249.15	4476.48	4716.28	4975.96	4.6%
Fuel Consumption (trillion Btu)														
Distillate Fuel Oil (diesel)	51.73	51.80	51.87	51.93	52.00	52.07	52.14	52.21	52.28	52.35	52.42	52.49	52.56	0.1%
Residual Fuel Oil	736.16	737.12	738.08	739.06	740.04	741.03	742.03	743.05	744.07	745.10	746.14	747.18	748.23	0.1%

Table 57. Freight Transportation Energy Use

MPG = Miles per gallon.

Btu = British thermal unit.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 and Annual (Oak Ridge, TN, 2007); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2004 (Washington, DC, October 2005); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Car													
Unit Body Construction	91.23	89.81	90.09	90.23	89.35	90.01	91.67	91.65	91.67	93.43	94.49	95.23	95.29
Material Substitution II	46.15	47.65	47.60	48.39	55.09	63.89	72.43	72.41	72.39	79.71	75.00	58.88	44.42
Material Substitution III	0.89	0.96	0.96	0.96	1.04	1.37	2.32	2.84	3.13	8.44	18.30	33.16	43.07
Material Substitution IV	0.00	0.04	0.07	0.09	0.14	0.22	0.32	0.40	0.46	1.06	2.29	5.43	9.80
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.27	0.45
Drag Reduction II	55.44	56.83	56.63	58.43	65.40	71.96	73.22	71.09	68.98	50.33	25.92	1.54	0.00
Drag Reduction III	2.20	2.39	2.46	3.13	6.04	9.77	13.70	15.77	17.56	29.27	40.81	46.11	27.61
Drag Reduction IV	0.60	0.67	0.73	0.85	1.36	2.68	4.97	6.32	7.14	16.52	28.10	42.92	55.35
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.11	0.30	0.40	0.46	1.26	2.91	7.16	14.78
Roll-Over Technology	24.48	39.10	53.76	68.42	83.08	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74
Side Impact Technology	24.48	39.10	53.76	68.42	83.08	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74
Advanced Low Loss Torque Converter	12.90	17.69	21.20	24.83	29.42	32.68	35.30	37.95	40.56	50.63	60.49	68.46	72.99
Early Torque Converter Lockup	61.83	63.19	63.36	65.07	72.82	79.06	83.21	83.21	83.19	86.17	85.93	82.85	79.81
Aggressive Shift Logic	36.81	36.65	36.43	36.32	37.32	40.28	46.56	46.63	46.63	53.85	58.96	65.58	68.01
4-Speed Automatic	57.57	54.94	54.59	53.92	53.05	51.35	49.42	48.09	47.04	41.57	37.35	29.61	25.40
5-Speed Automatic	20.78	20.83	20.68	20.61	20.90	20.82	20.62	20.56	20.53	20.44	20.43	20.53	18.27
6-Speed Automatic	2.52	4.54	4.40	4.35	4.87	4.89	4.80	4.81	4.78	4.94	5.78	7.21	8.30
6-Speed Manual	2.91	3.24	3.31	3.36	3.16	3.21	3.33	3.37	3.42	4.63	6.05	8.69	10.30
CVT	1.34	1.35	1.35	1.36	1.37	1.39	1.44	1.46	1.53	2.31	3.78	7.17	10.44
Automated Manual Trans	0.45	0.51	0.75	1.34	2.60	4.24	6.03	7.35	8.33	11.63	12.28	12.44	12.73
Roller Cam	92.92	93.25	94.20	94.84	96.32	97.04	97.33	97.40	97.44	97.58	97.63	97.66	97.69
OHC/AdvOHV-4 Cylinder	2.52	3.29	3.38	3.43	3.13	2.81	2.38	2.39	2.39	2.41	2.38	2.13	1.53
OHC/AdvOHV-6 Cylinder	4.98	4.76	4.72	4.69	4.86	4.85	4.53	4.53	4.51	1.81	0.00	0.00	0.00
OHC/AdvOHV-8 Cylinder	2.94	3.83	3.74	3.70	3.99	3.97	3.89	3.89	3.89	2.71	1.05	0.91	0.87
4-Valve/4-Cylinder	42.17	37.11	37.96	38.34	35.87	36.33	37.50	37.45	37.49	37.74	37.32	37.59	38.76
4-Valve/6-Cylinder	22.84	23.41	23.07	22.92	23.86	23.79	24.04	24.06	24.07	29.84	33.73	35.41	35.13
4-Valve/8-Cylinder	9.94	13.34	13.00	12.82	13.95	13.89	13.59	13.60	13.60	14.91	16.94	17.08	16.84
5-Valve/6-Cylinder	1.80	2.04	2.04	2.05	2.02	2.05	2.10	2.10	2.11	2.11	2.11	2.10	2.10
VVT-4 Cylinder	18.85	16.18	17.24	19.32	23.36	28.68	32.83	33.63	34.19	38.41	38.16	38.37	38.62
VVT-6 Cylinder	3.58	3.55	3.51	3.49	3.59	3.63	3.87	3.96	4.02	6.88	11.67	17.71	19.91
VVT-8 Cylinder	1.36	3.10	2.96	2.89	3.35	3.39	3.36	3.41	3.46	4.26	6.30	8.19	8.75
VVL-4 Cylinder	5.07	5.40	5.43	5.45	5.32	5.38	5.90	5.93	5.98	7.38	9.85	12.77	13.91
VVL-6 Cylinder	1.11	1.25	1.27	1.28	1.21	1.20	1.25	1.28	1.33	1.93	3.07	5.16	6.08
VVL-8 Cylinder	1.37	1.58	1.55	1.53	1.63	1.63	1.61	1.63	1.66	1.88	2.21	2.96	3.18
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.03	0.06	0.08	0.10	0.13	0.25	0.44	1.02	1.95
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.03	0.06	0.08	0.11	0.14	0.17	0.31	0.61	1.20	2.01
Camless Valve Actuation-8cyl	0.00	0.00	0.03	0.05	0.07	0.09	0.13	0.16	0.19	0.35	0.63	1.12	1.58
Cylinder Deactivation	0.06	0.08	0.12	0.16	0.25	0.38	0.56	0.67	0.80	1.60	2.84	5.22	5.97
Turbocharging/Supercharging	4.80	5.18	5.21	5.23	5.12	5.12	5.16	5.16	5.16	5.22	5.45	6.14	6.54
Engine Friction Reduction I	66.11	67.16	67.14	65.18	55.40	45.20	36.23	34.32	33.61	18.73	10.42	2.11	1.01
Engine Friction Reduction II	28.31	26.59	26.96	30.37	41.75	51.99	60.54	62.15	62.76	75.69	80.24	80.57	72.16
Engine Friction Reduction III	0.00	0.00	0.00	0.08	0.21	0.46	0.97	1.27	1.37	3.32	7.08	14.81	23.89
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.68
Stoichiometric GDI/4-Cylinder	0.00	0.03	0.06	0.08	0.11	0.18	0.28	0.34	0.43	1.04	2.31	5.72	10.65
Stoichiometric GDI/6-Cylinder	0.00	0.03	0.06	0.08	0.11	0.16	0.22	0.27	0.34	0.72	1.41	2.83	4.47
Lean Burn GDI	0.00	0.04	0.08	0.11	0.17	0.28	0.44	0.52	0.58	1.37	3.01	7.00	11.59
5W-30 Engine Oil	39.36	41.03	40.92	41.25	47.83	57.94	66.81	66.81	66.75	74.26	63.41	47.33	33.60
5W-20 Engine Oil	0.31	0.41	0.66	1.12	2.54	4.69	7.04	8.73	10.67	21.49	34.33	50.41	64.14
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.06	0.07	0.10	0.14	0.20	0.28	0.39	0.49	0.62	1.24	2.19	3.84	5.24
Improved Alternator	0.04	0.08	0.11	0.16	0.25	0.39	0.61	0.71	0.81	1.88	3.96	8.44	12.58

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Improved Oil/Water Pump	1.93	2.17	2.21	2.84	5.66	9.35	13.28	15.42	17.27	29.05	41.11	55.53	66.81
Electric Oil/Water Pump	0.00	0.00	0.04	0.07	0.10	0.16	0.24	0.30	0.35	0.71	1.49	3.31	5.85
Tires II	56.33	59.25	59.71	63.46	73.99	82.04	87.03	86.90	86.44	81.69	70.06	53.41	37.01
Tires III	0.08	0.21	0.39	0.71	1.68	3.42	5.36	6.38	7.49	16.05	27.22	42.62	57.30
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.72	3.42
Front Wheel Drive	79.34	75.19	75.16	75.13	75.21	75.22	75.50	75.51	75.51	76.02	76.46	76.99	77.34
Four Wheel Drive Improvements	0.39	0.43	0.43	0.43	0.44	0.50	0.69	0.82	0.95	1.68	2.72	3.89	5.19
42V-Launch Assist and Regen	0.00	0.03	0.05	0.06	0.09	0.11	0.15	0.19	0.23	0.30	0.55	0.90	1.39
42V-Engine Off at Idle	0.03	0.05	0.06	0.09	0.11	0.15	0.19	0.23	0.30	0.55	0.90	1.39	1.85
Tier 2 Emissions Technology	0.00	32.58	65.16	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74
Increased Size/Weight	3.77	7.52	11.28	15.04	18.80	22.56	26.31	30.07	33.83	37.59	41.35	45.11	48.87
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.18
Light Truck													
Unit Body Construction	12.17	10.80	10.96	11.43	14.19	17.86	20.98	24.70	27.19	27.25	27.85	27.86	27.91
Material Substitution II	30.26	31.74	31.56	31.78	36.58	44.33	56.37	64.25	65.99	66.20	63.39	63.02	61.60
Material Substitution III	0.44	0.51	0.52	0.57	0.70	1.08	2.79	6.94	13.30	17.89	27.58	29.79	33.12
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.22	0.37	0.56	1.15	1.61	3.03
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction II	43.81	48.20	50.05	53.28	55.40	52.89	43.09	26.45	12.90	4.21	0.14	0.06	0.00
Drag Reduction III	9.21	11.12	14.39	19.24	27.18	35.89	48.58	62.78	70.06	69.91	58.83	51.49	36.82
Drag Reduction IV	0.00	0.18	0.37	0.66	1.53	2.98	5.48	9.69	17.04	25.60	40.08	47.09	60.71
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.94	1.36	2.47
Roll-Over Technology	0.00	33.33	50.00	66.67	83.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	33.33	50.00	66.67	83.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.25	1.32	2.31	3.40	5.00	6.66	9.17	15.70	26.29	40.08	55.97	66.03	78.21
Early Torque Converter Lockup	91.08	92.00	92.32	92.60	92.86	93.53	93.30	93.87	94.23	94.68	94.89	95.41	95.45
Aggressive Shift Logic	49.75	47.23	47.29	47.51	49.78	53.13	56.45	62.90	67.85	69.32	75.17	75.18	77.63
4-Speed Automatic	64.60	62.09	61.98	61.89	61.79	61.52	58.71	55.25	51.36	47.58	41.02	37.78	34.57
5-Speed Automatic	31.11	33.08	33.19	33.21	32.96	32.93	33.62	34.40	34.55	34.85	35.33	35.42	35.66
6-Speed Automatic	0.59	0.79	0.82	0.86	0.93	1.07	1.44	2.39	3.75	4.94	7.45	8.62	10.42
6-Speed Manual	0.44	0.63	0.62	0.65	0.80	0.99	1.73	3.01	4.81	6.39	9.08	10.63	11.43
CVT	0.53	0.77	0.78	0.78	0.80	0.81	1.78	1.95	2.13	2.32	2.86	3.09	3.56
Automated Manual Trans	0.01	0.04	0.10	0.19	0.38	0.56	0.80	1.41	2.26	2.85	3.36	3.56	3.47
Roller Cam	84.46	85.68	88.86	91.50	93.78	95.52	96.82	98.54	99.46	99.88	99.99	99.99	99.99
OHC/AdvOHV-4 Cylinder	1.01	0.95	0.91	0.89	0.64	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OHC/AdvOHV-6 Cylinder	30.42	30.17	30.26	30.26	30.09	29.20	23.71	17.56	14.68	13.43	11.35	10.87	10.69
OHC/AdvOHV-8 Cylinder	34.41	32.26	32.28	32.33	31.91	30.58	25.43	21.35	19.42	18.37	16.88	16.22	15.86
4-Valve/4-Cylinder	6.98	7.68	7.57	7.53	8.15	8.53	8.68	8.69	8.68	8.64	8.67	8.69	8.60
4-Valve/6-Cylinder	14.23	14.68	14.64	14.63	14.75	15.65	21.15	27.27	30.16	31.43	33.47	34.00	34.15
4-Valve/8-Cylinder	12.53	13.86	13.95	13.96	14.10	15.54	21.03	25.13	27.06	28.13	29.63	30.22	30.70
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VVT-4 Cylinder	5.58	6.40	7.62	8.19	8.80	8.77	8.68	8.69	8.68	8.60	8.60	8.59	8.42
VVT-6 Cylinder	1.91	2.00	2.00	2.00	2.00	2.13	4.39	8.56	14.01	16.68	20.87	21.61	22.06
VVT-8 Cylinder	1.44	1.47	1.47	1.47	1.47	1.55	3.71	7.73	12.20	14.96	19.31	20.74	21.82
VVL-4 Cylinder	0.37	0.39	0.39	0.39	0.41	0.50	1.11	2.54	4.60	5.07	5.52	5.17	3.56
VVL-6 Cylinder	1.54	1.60	1.60	1.60	1.60	1.60	2.12	3.47	5.27	6.40	8.71	9.28	9.63
VVL-8 Cylinder	0.00	0.05	0.07	0.10	0.15	0.22	0.40	0.69	1.09	1.64	2.64	3.36	4.44
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.10	0.18
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.15	0.24	0.41	0.57	1.10
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.17	0.26	0.47	0.68	1.11
Cylinder Deactivation	0.07	0.12	0.17	0.23	0.37	0.60	1.38	2.92	4.96	7.09	10.69	11.88	13.04

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Turbocharging/Supercharging	1.51	1.47	1.48	1.48	1.51	1.53	1.58	1.70	2.00	2.27	2.86	3.04	3.38
Engine Friction Reduction I	74.11	76.15	76.80	71.50	61.29	50.83	35.92	20.55	9.69	3.61	0.42	0.35	0.00
Engine Friction Reduction II	12.59	15.88	21.42	27.95	38.57	48.88	62.57	76.10	84.90	88.49	84.47	79.25	65.74
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.29	1.51	3.34	5.41	7.90	15.11	20.09	33.24
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.02
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.02	0.05	0.07	0.14	0.32	0.62	1.04	2.61	2.95	4.75
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.05	0.12	0.22	0.37	0.57	1.14	1.61	3.32
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.06	0.17	0.39	0.71	1.08	2.32	3.12	5.57
5W-30 Engine Oil	51.63	55.06	55.69	58.67	67.59	76.38	83.83	80.56	68.80	56.05	39.30	31.96	20.71
5W-20 Engine Oil	0.57	1.09	1.74	2.76	4.60	6.78	10.85	19.44	31.20	43.95	60.70	68.04	79.29
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.02	0.03	0.04	0.06	0.09	0.13	0.22	0.44	0.85	1.25	2.14	2.46	3.19
Improved Alternator	0.05	0.11	0.16	0.23	0.39	0.67	1.63	3.68	6.95	10.07	17.04	19.55	22.31
Improved Oil/Water Pump	9.29	11.20	14.60	19.44	27.46	36.17	48.81	62.91	73.78	80.43	87.20	88.88	91.38
Electric Oil/Water Pump	0.00	0.00	0.00	0.05	0.10	0.15	0.34	0.67	1.16	1.98	4.22	6.00	10.61
Tires II	58.42	63.23	70.92	77.08	85.94	90.91	91.53	85.37	75.23	63.87	46.52	37.62	22.46
Tires III	0.12	0.51	1.03	1.85	3.43	5.23	8.20	14.63	24.77	36.13	52.78	60.85	74.29
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	1.53	3.25
Front Wheel Drive	27.17	26.84	27.11	27.19	26.53	26.57	26.75	26.68	26.69	26.82	26.65	26.77	26.83
Four Wheel Drive Improvements	1.10	1.16	1.16	1.16	1.17	1.33	2.92	6.63	12.03	15.78	26.66	29.12	32.06
42V-Launch Assist and Regen	0.00	0.03	0.06	0.07	0.10	0.13	0.17	0.25	0.44	0.75	1.15	1.68	2.01
42V-Engine Off at Idle	0.03	0.06	0.07	0.10	0.13	0.17	0.25	0.44	0.75	1.15	1.71	2.00	2.49
Tier 2 Emissions Technology	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	3.85	7.69	11.54	15.38	19.23	23.08	26.92	30.77	34.62	38.46	42.31	46.15	50.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.09
Light-Duty Vehicle Total													
Unit Body Construction	50.30	50.46	52.18	54.00	54.35	55.35	57.04	58.47	59.31	60.03	60.25	59.99	59.96
Material Substitution II	37.92	39.73	39.92	40.75	46.47	54.49	64.56	68.36	69.18	72.89	69.03	61.05	53.43
Material Substitution III	0.65	0.73	0.75	0.78	0.88	1.23	2.55	4.87	8.23	13.21	23.07	31.40	37.85
Material Substitution IV	0.00	0.02	0.04	0.05	0.08	0.14	0.22	0.31	0.41	0.81	1.71	3.43	6.25
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.13	0.21
Drag Reduction II	49.42	52.54	53.48	56.07	60.75	62.80	58.46	48.97	40.83	27.06	12.68	0.77	0.00
Drag Reduction III	5.83	6.74	8.18	10.54	15.89	22.32	30.78	39.07	43.91	49.78	50.07	48.93	32.44
Drag Reduction IV	0.29	0.43	0.56	0.76	1.44	2.82	5.22	7.99	12.11	21.10	34.26	45.11	58.16
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.06	0.15	0.20	0.23	0.77	1.90	4.13	8.33
Roll-Over Technology	11.81	36.23	51.96	67.61	83.20	98.82	98.85	98.86	98.87	98.88	98.90	98.92	98.92
Side Impact Technology	11.81	36.23	51.96	67.61	83.20	98.82	98.85	98.86	98.87	98.88	98.90	98.92	98.92
Advanced Low Loss Torque Converter	6.35	9.53	12.15	14.98	18.05	20.18	22.50	26.92	33.40	45.31	58.17	67.19	75.73
Early Torque Converter Lockup	76.97	77.54	77.23	77.73	82.15	86.01	88.15	88.49	88.73	90.47	90.54	89.42	88.01
Aggressive Shift Logic	43.51	41.92	41.64	41.46	43.12	46.45	51.40	54.69	57.28	61.66	67.29	70.60	73.06
4-Speed Automatic	61.21	58.50	58.13	57.58	57.12	56.24	53.97	51.64	49.21	44.60	39.23	33.88	30.21
5-Speed Automatic	26.13	26.93	26.67	26.40	26.51	26.64	26.99	27.42	27.57	27.71	28.09	28.32	27.39
6-Speed Automatic	1.52	2.67	2.69	2.75	3.04	3.05	3.15	3.61	4.26	4.94	6.64	7.95	9.41
6-Speed Manual	1.63	1.94	2.02	2.11	2.06	2.14	2.55	3.19	4.12	5.52	7.61	9.70	10.89
CVT	0.92	1.06	1.08	1.09	1.10	1.11	1.60	1.70	1.83	2.32	3.31	5.03	6.83
Automated Manual Trans	0.22	0.27	0.43	0.81	1.57	2.47	3.47	4.41	5.29	7.20	7.70	7.80	7.88
Roller Cam	88.54	89.48	91.64	93.31	95.14	96.31	97.08	97.96	98.45	98.74	98.84	98.88	98.90
OHC/AdvOHV-4 Cylinder	1.74	2.13	2.19	2.26	1.97	1.58	1.22	1.20	1.19	1.20	1.16	1.02	0.73
OHC/AdvOHV-6 Cylinder	18.15	17.42	16.95	16.45	16.61	16.55	13.92	10.99	9.61	7.68	5.83	5.68	5.61
OHC/AdvOHV-8 Cylinder	19.23	17.99	17.42	16.86	16.99	16.76	14.44	12.54	11.68	10.61	9.18	8.92	8.73
4-Valve/4-Cylinder	23.95	22.45	23.40	24.18	22.97	22.98	23.38	23.20	23.03	23.05	22.60	22.47	22.94

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
4-Valve/6-Cylinder	18.39	19.06	19.03	19.11	19.62	19.88	22.62	25.65	27.12	30.64	33.60	34.67	34.62
4-Valve/8-Cylinder	11.28	13.60	13.45	13.34	14.02	14.69	17.23	19.32	20.35	21.58	23.46	23.95	24.11
5-Valve/6-Cylinder	0.87	1.02	1.06	1.10	1.08	1.07	1.07	1.06	1.05	1.05	1.02	1.00	1.00
VVT-4 Cylinder	11.98	11.31	12.63	14.20	16.58	19.12	21.00	21.27	21.39	23.37	22.97	22.80	22.79
VVT-6 Cylinder	2.71	2.78	2.79	2.81	2.85	2.91	4.12	6.24	9.03	11.83	16.39	19.75	21.04
VVT-8 Cylinder	1.40	2.29	2.25	2.23	2.47	2.50	3.53	5.55	7.85	9.66	12.98	14.75	15.60
VVL-4 Cylinder	2.63	2.91	3.01	3.12	3.04	3.04	3.55	4.25	5.29	6.22	7.62	8.80	8.48
VVL-6 Cylinder	1.33	1.43	1.43	1.43	1.39	1.40	1.67	2.36	3.31	4.19	5.96	7.31	7.94
VVL-8 Cylinder	0.66	0.82	0.84	0.87	0.94	0.95	1.02	1.16	1.37	1.76	2.43	3.17	3.84
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.02	0.03	0.04	0.05	0.06	0.14	0.25	0.54	1.02
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.02	0.03	0.04	0.06	0.12	0.16	0.27	0.51	0.87	1.53
Camless Valve Actuation-8cyl	0.00	0.00	0.01	0.03	0.03	0.05	0.09	0.13	0.18	0.30	0.55	0.89	1.33
Cylinder Deactivation	0.06	0.10	0.14	0.20	0.31	0.49	0.96	1.78	2.89	4.37	6.87	8.71	9.68
Turbocharging/Supercharging	3.10	3.33	3.42	3.51	3.44	3.40	3.40	3.44	3.58	3.73	4.12	4.52	4.88
Engine Friction Reduction I	70.25	71.64	71.77	68.08	58.14	47.90	36.08	27.50	21.60	11.10	5.28	1.19	0.48
Engine Friction Reduction II	20.17	21.26	24.31	29.26	40.27	50.50	61.54	69.07	73.87	82.15	82.42	79.88	68.80
Engine Friction Reduction III	0.00	0.00	0.00	0.04	0.11	0.38	1.23	2.30	3.40	5.63	11.20	17.57	28.79
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.86
Stoichiometric GDI/4-Cylinder	0.00	0.02	0.03	0.05	0.08	0.13	0.21	0.33	0.52	1.04	2.47	4.27	7.55
Stoichiometric GDI/6-Cylinder	0.00	0.02	0.03	0.04	0.06	0.11	0.17	0.25	0.35	0.64	1.27	2.19	3.87
Lean Burn GDI	0.00	0.02	0.04	0.06	0.09	0.17	0.31	0.46	0.65	1.23	2.65	4.97	8.43
5W-30 Engine Oil	45.71	48.02	48.00	49.26	57.03	66.80	75.15	73.62	67.78	65.07	51.02	39.29	26.84
5W-20 Engine Oil	0.44	0.75	1.17	1.88	3.50	5.70	8.91	14.04	20.97	32.82	47.88	59.63	72.08
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.04	0.05	0.07	0.10	0.15	0.21	0.30	0.47	0.74	1.24	2.16	3.12	4.17
Improved Alternator	0.04	0.10	0.13	0.19	0.32	0.52	1.11	2.18	3.89	6.01	10.68	14.25	17.69
Improved Oil/Water Pump	5.74	6.67	8.15	10.47	15.81	22.23	30.68	38.95	45.63	54.98	64.79	72.97	79.69
Electric Oil/Water Pump	0.00	0.00	0.02	0.06	0.10	0.16	0.29	0.48	0.76	1.35	2.89	4.72	8.34
Tires II	57.41	61.24	65.08	69.72	79.56	86.30	89.23	86.14	80.81	72.70	57.97	45.15	29.38
Tires III	0.10	0.36	0.70	1.24	2.49	4.29	6.75	10.47	16.16	26.18	40.35	52.15	66.21
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	1.62	3.33
Front Wheel Drive	52.33	51.11	52.14	53.09	52.55	51.85	51.62	51.31	51.01	51.19	50.87	50.72	50.85
Four Wheel Drive Improvements	0.76	0.79	0.78	0.77	0.78	0.90	1.78	3.70	6.51	8.79	15.02	17.08	19.28
42V-Launch Assist and Regen	0.00	0.03	0.05	0.07	0.09	0.12	0.16	0.22	0.34	0.53	0.85	1.31	1.71
42V-Engine Off at Idle	0.03	0.05	0.07	0.09	0.12	0.16	0.22	0.34	0.53	0.85	1.32	1.71	2.18
Tier 2 Emissions Technology	0.00	32.96	65.88	98.78	98.79	98.82	98.85	98.86	98.87	98.88	98.90	98.92	98.92
Increased Size/Weight	3.81	7.61	11.40	15.20	19.00	22.81	26.61	30.42	34.23	38.03	41.84	45.66	49.46
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.13

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Car														
Unit Body Construction	95.30	95.34	95.33	95.26	95.30	95.30	95.29	95.30	95.30	95.30	95.31	95.31	95.30	0.2%
Material Substitution II	24.29	12.55	2.00	1.87	1.83	1.84	1.84	1.83	1.82	1.82	1.81	1.80	1.78	-12.8%
Material Substitution III	53.97	56.40	56.20	55.56	55.45	55.47	55.49	55.46	55.47	55.46	55.44	55.44	55.45	18.4%
Material Substitution IV	18.56	26.97	35.87	35.67	35.81	35.78	35.76	35.79	35.78	35.79	35.81	35.81	35.80	33.0%
Material Substitution V	0.92	1.81	3.68	4.64	4.66	4.65	4.65	4.66	4.67	4.67	4.68	4.69	4.71	--
Drag Reduction II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.3%
Drag Reduction III	4.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-44.4%
Drag Reduction IV	66.44	61.04	47.47	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	19.1%
Drag Reduction V	26.57	36.70	50.27	53.53	53.54	53.54	53.54	53.54	53.54	53.54	53.54	53.54	53.54	--
Roll-Over Technology	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	3.9%
Side Impact Technology	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	3.9%
Advanced Low Loss Torque Converter	69.63	65.72	63.03	63.28	63.12	63.15	63.18	63.14	63.15	63.14	63.12	63.11	63.13	5.4%
Early Torque Converter Lockup	74.85	70.96	68.28	68.46	68.33	68.36	68.38	68.35	68.35	68.35	68.33	68.33	68.34	0.3%
Aggressive Shift Logic	68.51	68.76	70.53	70.53	70.54	70.54	70.54	70.54	70.54	70.54	70.54	70.54	70.54	2.8%
4-Speed Automatic	15.68	8.96	6.36	6.49	6.41	6.43	6.44	6.42	6.42	6.42	6.41	6.41	6.42	-8.6%
5-Speed Automatic	18.09	17.78	16.27	16.41	16.31	16.33	16.34	16.32	16.32	16.32	16.30	16.30	16.31	-1.0%
6-Speed Automatic	11.43	13.82	14.52	14.66	14.56	14.58	14.60	14.57	14.58	14.57	14.56	14.55	14.57	5.0%
6-Speed Manual	12.07	12.70	13.45	13.41	13.44	13.44	13.43	13.44	13.44	13.44	13.44	13.44	13.44	6.1%
CVT	15.39	19.15	21.86	21.88	21.87	21.87	21.87	21.87	21.87	21.87	21.87	21.87	21.87	12.3%
Automated Manual Trans	12.76	12.87	12.84	12.71	12.80	12.78	12.77	12.80	12.79	12.79	12.81	12.81	12.80	14.4%
Roller Cam	97.69	97.69	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	0.2%
OHC/AdvOHV-4 Cylinder	1.53	1.55	1.00	0.98	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	-4.9%
OHC/AdvOHV-6 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.0%
OHC/AdvOHV-8 Cylinder	0.75	0.66	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	-7.4%
4-Valve/4-Cylinder	38.78	39.24	39.71	39.09	39.52	39.43	39.37	39.48	39.45	39.48	39.53	39.54	39.49	0.3%
4-Valve/6-Cylinder	35.15	34.90	34.92	35.26	35.04	35.08	35.11	35.06	35.08	35.06	35.03	35.03	35.06	1.7%
4-Valve/8-Cylinder	16.91	16.79	16.90	17.18	16.97	17.02	17.05	16.99	17.01	17.00	16.97	16.96	16.99	1.0%
5-Valve/6-Cylinder	2.11	2.11	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	0.1%
VVT-4 Cylinder	37.22	35.43	31.74	30.69	31.09	31.01	30.95	31.05	31.02	31.05	31.10	31.11	31.06	2.8%
VVT-6 Cylinder	22.59	23.78	24.70	24.96	24.79	24.82	24.85	24.81	24.82	24.81	24.78	24.78	24.80	8.4%
VVT-8 Cylinder	9.79	10.40	10.98	11.23	11.06	11.10	11.12	11.08	11.09	11.08	11.05	11.05	11.07	5.4%
VVL-4 Cylinder	14.33	13.59	9.14	8.42	8.54	8.52	8.50	8.53	8.52	8.53	8.54	8.54	8.53	1.9%
VVL-6 Cylinder	7.55	8.59	8.80	8.94	8.85	8.87	8.89	8.86	8.87	8.86	8.85	8.85	8.86	8.5%
VVL-8 Cylinder	3.85	3.56	3.34	3.40	3.36	3.37	3.37	3.36	3.37	3.36	3.36	3.36	3.36	3.2%
Camless Valve Actuation-4cyl	3.63	5.92	9.53	9.91	9.97	9.96	9.95	9.97	9.96	9.97	9.97	9.98	9.97	--
Camless Valve Actuation-6cyl	3.32	4.76	6.57	6.64	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	--
Camless Valve Actuation-8cyl	2.21	2.80	3.37	3.40	3.38	3.38	3.39	3.38	3.38	3.38	3.38	3.38	3.38	--
Cylinder Deactivation	7.25	8.11	8.32	8.45	8.36	8.38	8.39	8.37	8.38	8.37	8.36	8.36	8.37	21.3%
Turbocharging/Supercharging	7.30	7.76	8.04	8.01	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	1.8%
Engine Friction Reduction I	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-16.8%
Engine Friction Reduction II	61.33	51.10	37.47	34.57	34.41	34.44	34.44	34.28	34.14	34.10	34.05	33.98	33.85	1.0%
Engine Friction Reduction III	33.85	42.50	51.62	52.77	52.91	52.88	52.86	52.89	52.89	52.89	52.91	52.91	52.89	--
Engine Friction Reduction IV	1.74	3.32	7.84	9.58	9.61	9.60	9.61	9.75	9.90	9.93	9.96	10.04	10.18	--
Stoichiometric GDI/4-Cylinder	16.06	17.91	22.24	21.93	22.20	22.14	22.10	22.17	22.15	22.17	22.21	22.21	22.18	31.5%
Stoichiometric GDI/6-Cylinder	7.03	8.86	11.16	11.89	11.84	11.85	11.86	11.85	11.85	11.85	11.84	11.84	11.85	28.0%
Lean Burn GDI	18.35	21.65	25.18	25.37	25.51	25.48	25.46	25.50	25.49	25.50	25.52	25.52	25.50	31.0%
5W-30 Engine Oil	21.95	15.08	9.11	9.08	9.07	9.07	9.08	9.07	9.07	9.07	9.07	9.07	9.03	-6.1%
5W-20 Engine Oil	75.79	82.66	88.63	88.66	88.67	88.66	88.66	88.66	88.66	88.66	88.67	88.67	88.66	25.1%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	--
Electric Power Steering	7.41	9.15	11.19	11.18	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	23.3%
Improved Alternator	19.90	22.83	27.50	27.47	27.49	27.49	27.48	27.49	27.49	27.49	27.49	27.49	27.49	27.5%

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Improved Oil/Water Pump	76.80	82.37	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	16.7%
Electric Oil/Water Pump	10.77	16.94	25.00	24.99	24.99	24.99	24.99	24.99	24.99	24.99	24.99	24.99	24.99	--
Tires II	20.74	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.6%
Tires III	70.65	79.22	75.61	69.73	69.72	69.72	69.72	69.59	69.42	69.35	69.31	69.14	69.03	27.3%
Tires IV	6.35	11.83	22.13	28.01	28.02	28.01	28.01	28.15	28.32	28.39	28.43	28.60	28.71	--
Front Wheel Drive	77.47	77.50	77.84	77.83	77.85	77.85	77.85	77.85	77.85	77.85	77.85	77.85	77.85	0.1%
Four Wheel Drive Improvements	5.22	5.26	5.38	5.32	5.35	5.35	5.34	5.35	5.35	5.35	5.35	5.35	5.35	11.1%
42V-Launch Assist and Regen	1.85	2.34	2.68	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	21.3%
42V-Engine Off at Idle	2.34	2.68	2.99	2.98	2.99	2.98	2.98	2.99	2.98	2.99	2.99	2.99	2.99	18.4%
Tier 2 Emissions Technology	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	4.7%
Increased Size/Weight	52.63	56.39	60.15	63.91	67.67	71.42	75.18	78.94	82.70	86.46	90.22	93.98	97.74	11.3%
Variable Compression Ratio	0.30	0.54	1.00	1.21	1.22	1.29	1.45	1.63	1.78	1.89	1.98	2.07	2.22	--
Light Truck														
Unit Body Construction	27.94	27.97	28.00	27.98	28.03	28.01	28.00	28.01	28.01	28.01	28.02	28.02	28.01	4.1%
Material Substitution II	57.02	54.78	45.48	44.47	43.62	41.95	40.65	39.77	39.32	39.20	39.07	38.90	38.74	0.8%
Material Substitution III	37.33	37.96	43.70	43.92	43.96	44.59	44.84	44.66	44.48	44.48	44.47	44.47	44.47	20.5%
Material Substitution IV	5.15	6.85	10.67	11.42	12.16	13.02	13.80	14.47	14.77	14.77	14.76	14.76	14.77	--
Material Substitution V	0.06	0.08	0.16	0.18	0.27	0.44	0.71	1.10	1.44	1.56	1.69	1.86	2.02	--
Drag Reduction II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-51.1%
Drag Reduction III	23.36	16.73	4.20	3.92	3.72	3.51	3.44	3.38	3.37	3.37	3.37	3.37	3.37	-4.8%
Drag Reduction IV	71.25	74.47	77.41	75.04	71.90	68.89	66.74	64.96	64.10	63.93	63.84	63.55	63.37	27.5%
Drag Reduction V	5.39	8.80	18.40	21.05	24.38	27.60	29.82	31.66	32.53	32.70	32.78	33.08	33.26	--
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	4.7%
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	4.7%
Advanced Low Loss Torque Converter	84.24	86.83	87.78	87.89	87.98	87.84	87.79	87.79	87.79	87.79	87.79	87.79	87.79	19.1%
Early Torque Converter Lockup	94.86	94.55	93.69	93.55	93.46	93.32	93.27	93.26	93.26	93.26	93.26	93.26	93.26	0.1%
Aggressive Shift Logic	80.36	80.35	83.85	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	2.4%
4-Speed Automatic	30.19	29.05	25.99	25.80	25.76	25.22	24.95	24.75	24.68	24.68	24.69	24.69	24.68	-3.8%
5-Speed Automatic	34.77	34.43	33.57	33.20	33.07	32.84	32.73	32.70	32.68	32.68	32.69	32.69	32.68	0.0%
6-Speed Automatic	14.03	14.81	17.31	17.42	17.50	17.65	17.61	17.59	17.57	17.57	17.57	17.57	17.57	13.8%
6-Speed Manual	12.52	12.91	13.48	13.67	13.72	14.19	14.54	14.81	14.89	14.89	14.88	14.88	14.89	14.1%
CVT	4.15	4.47	5.33	5.46	5.56	5.70	5.75	5.76	5.76	5.76	5.77	5.77	5.76	8.8%
Automated Manual Trans	3.45	3.44	3.42	3.54	3.49	3.51	3.52	3.51	3.51	3.51	3.51	3.51	3.51	20.6%
Roller Cam	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	0.6%
OHC/AdvOHV-4 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.2%
OHC/AdvOHV-6 Cylinder	10.17	10.16	9.53	9.52	9.55	9.41	9.32	9.25	9.23	9.23	9.24	9.24	9.23	-4.8%
OHC/AdvOHV-8 Cylinder	15.47	15.47	15.09	15.03	15.05	14.93	14.77	14.61	14.56	14.56	14.57	14.57	14.56	-3.3%
4-Valve/4-Cylinder	8.58	8.56	8.54	8.66	8.61	8.62	8.64	8.62	8.63	8.63	8.62	8.62	8.62	0.5%
4-Valve/6-Cylinder	34.66	34.71	35.24	35.34	35.32	35.45	35.55	35.61	35.65	35.65	35.65	35.64	35.65	3.8%
4-Valve/8-Cylinder	31.12	31.11	31.61	31.45	31.47	31.58	31.72	31.90	31.93	31.93	31.94	31.94	31.93	3.5%
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
VVT-4 Cylinder	8.23	7.99	7.27	7.01	6.81	6.56	6.26	5.93	5.82	5.75	5.69	5.48	5.43	-0.7%
VVT-6 Cylinder	22.89	22.43	23.82	23.63	23.37	23.38	23.39	23.34	23.30	23.24	23.23	23.21	23.20	10.7%
VVT-8 Cylinder	22.99	22.92	24.32	24.10	24.03	24.32	24.61	24.87	24.83	24.84	24.84	24.84	24.84	12.5%
VVL-4 Cylinder	1.67	1.63	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	-12.3%
VVL-6 Cylinder	10.31	9.75	9.87	9.18	8.84	8.83	8.88	8.85	8.78	8.74	8.73	8.71	8.71	7.3%
VVL-8 Cylinder	5.41	5.66	6.40	6.32	6.27	6.30	6.31	6.31	6.22	6.22	6.22	6.22	6.22	22.6%
Camless Valve Actuation-4cyl	0.35	0.57	1.27	1.66	1.80	2.06	2.38	2.69	2.81	2.88	2.93	3.14	3.20	--
Camless Valve Actuation-6cyl	1.96	3.03	5.08	5.64	6.12	6.62	7.02	7.36	7.51	7.58	7.58	7.60	7.62	--
Camless Valve Actuation-8cyl	1.83	2.48	3.40	3.78	4.06	4.36	4.57	4.74	5.05	5.06	5.06	5.08	5.09	--
Cylinder Deactivation	14.22	14.24	15.21	15.17	15.17	15.30	15.45	15.62	15.66	15.66	15.66	15.66	15.66	22.4%

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Turbocharging/Supercharging	3.71	3.77	4.13	4.15	4.16	4.19	4.20	4.22	4.22	4.22	4.22	4.22	4.22	4.5%
Engine Friction Reduction I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.7%
Engine Friction Reduction II	49.75	39.14	19.04	13.31	11.01	10.62	9.62	8.04	6.38	5.42	4.48	3.19	2.62	-7.2%
Engine Friction Reduction III	47.88	57.27	72.77	75.76	73.67	68.61	62.58	57.25	55.09	54.90	54.72	54.19	53.44	--
Engine Friction Reduction IV	2.37	3.59	8.19	10.93	15.32	20.77	27.80	34.71	38.52	39.67	40.80	42.61	43.95	--
Stoichiometric GDI/4-Cylinder	6.53	6.34	7.24	6.98	6.78	6.53	6.23	5.90	5.79	5.72	5.67	5.46	5.41	--
Stoichiometric GDI/6-Cylinder	5.19	6.32	9.23	10.17	10.66	11.00	10.82	11.32	11.48	11.46	11.46	11.46	11.46	--
Lean Burn GDI	8.61	9.79	14.09	14.89	15.36	15.53	15.11	15.35	15.47	15.42	15.39	15.33	15.33	--
5W-30 Engine Oil	13.56	11.57	6.20	5.77	5.68	5.48	5.40	5.34	5.33	5.33	5.33	5.33	5.28	-9.3%
5W-20 Engine Oil	86.44	88.43	93.80	94.23	94.32	94.52	94.60	94.66	94.67	94.67	94.67	94.67	94.67	20.5%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	--
Electric Power Steering	4.01	4.22	5.42	5.57	5.66	5.83	5.99	6.11	6.18	6.18	6.18	6.18	6.18	24.4%
Improved Alternator	25.93	26.57	30.58	30.73	30.85	31.64	32.22	32.68	32.80	32.80	32.80	32.80	32.80	26.6%
Improved Oil/Water Pump	92.84	93.00	94.15	94.15	94.15	94.22	94.26	94.29	94.30	94.30	94.30	94.30	94.30	9.3%
Electric Oil/Water Pump	17.18	19.60	27.85	29.62	31.15	33.34	35.02	36.22	36.62	36.62	36.62	36.62	36.62	--
Tires II	11.12	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.5%
Tires III	83.23	85.67	80.93	75.91	70.04	62.21	54.64	48.61	45.07	43.51	42.34	40.32	39.00	19.8%
Tires IV	5.65	9.26	19.07	24.09	29.96	37.79	45.36	51.39	54.93	56.49	57.66	59.68	61.00	--
Front Wheel Drive	26.83	26.96	26.80	26.80	26.90	26.87	26.85	26.88	26.87	26.88	26.89	26.89	26.88	0.0%
Four Wheel Drive Improvements	35.17	35.49	39.57	39.53	39.51	39.77	39.91	40.02	40.04	40.03	40.02	40.02	40.03	15.9%
42V-Launch Assist and Regen	2.49	2.81	2.95	3.00	3.04	3.07	3.11	3.14	3.16	3.16	3.16	3.16	3.16	21.5%
42V-Engine Off at Idle	2.84	2.95	3.25	3.28	3.30	3.33	3.35	3.37	3.37	3.37	3.37	3.37	3.37	18.5%
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	4.7%
Increased Size/Weight	53.85	57.69	61.54	65.38	69.23	73.08	76.92	80.77	84.62	88.46	92.31	96.15	100.00	11.3%
Variable Compression Ratio	0.15	0.24	0.47	0.56	0.75	1.01	1.25	1.46	1.59	1.65	1.69	1.75	1.83	--
Light-Duty Vehicle Total														
Unit Body Construction	60.20	60.57	61.24	60.94	61.21	61.38	61.44	61.54	61.60	61.63	61.72	61.81	61.87	0.9%
Material Substitution II	41.34	34.35	24.02	23.60	23.01	22.06	21.37	20.87	20.60	20.52	20.41	20.27	20.15	-2.8%
Material Substitution III	45.30	46.88	49.87	49.62	49.62	49.99	50.13	50.04	49.96	49.96	49.97	49.98	50.00	19.2%
Material Substitution IV	11.57	16.58	23.11	23.30	23.82	24.31	24.71	25.09	25.26	25.27	25.31	25.33	25.35	35.0%
Material Substitution V	0.47	0.92	1.89	2.37	2.43	2.53	2.67	2.87	3.05	3.11	3.19	3.28	3.37	--
Drag Reduction II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.0%
Drag Reduction III	14.44	8.63	2.13	2.00	1.88	1.77	1.73	1.70	1.69	1.69	1.68	1.68	1.68	-5.6%
Drag Reduction IV	68.95	67.98	62.63	59.93	58.24	56.64	55.54	54.61	54.16	54.07	54.00	53.83	53.72	22.3%
Drag Reduction V	15.53	22.30	34.13	36.96	38.76	40.47	41.61	42.56	43.02	43.11	43.18	43.35	43.46	--
Roll-Over Technology	98.92	98.91	98.88	98.89	98.88	98.88	98.88	98.87	98.87	98.87	98.87	98.86	98.86	4.3%
Side Impact Technology	98.92	98.91	98.88	98.89	98.88	98.88	98.88	98.87	98.87	98.87	98.87	98.86	98.86	4.3%
Advanced Low Loss Torque Converter	77.24	76.62	75.56	75.83	75.72	75.60	75.56	75.51	75.49	75.47	75.43	75.40	75.38	9.0%
Early Torque Converter Lockup	85.28	83.14	81.15	81.26	81.07	80.94	80.90	80.85	80.83	80.81	80.77	80.74	80.72	0.2%
Aggressive Shift Logic	74.69	74.74	77.28	77.31	77.27	77.23	77.22	77.20	77.19	77.18	77.17	77.15	77.14	2.6%
4-Speed Automatic	23.24	19.33	16.30	16.34	16.22	15.90	15.75	15.61	15.57	15.56	15.53	15.51	15.49	-5.4%
5-Speed Automatic	26.78	26.37	25.03	24.97	24.80	24.65	24.59	24.54	24.51	24.51	24.48	24.46	24.45	-0.4%
6-Speed Automatic	12.78	14.33	15.93	16.07	16.05	16.13	16.11	16.08	16.08	16.07	16.06	16.06	16.06	7.8%
6-Speed Manual	12.31	12.81	13.46	13.54	13.59	13.82	13.99	14.13	14.17	14.17	14.16	14.16	14.16	8.6%
CVT	9.53	11.57	13.49	13.50	13.61	13.72	13.76	13.79	13.80	13.81	13.83	13.86	13.87	11.3%
Automated Manual Trans	7.91	8.00	8.07	8.03	8.08	8.11	8.12	8.13	8.14	8.15	8.16	8.18	8.18	15.2%
Roller Cam	98.89	98.88	98.87	98.88	98.87	98.86	98.86	98.86	98.86	98.86	98.85	98.85	98.85	0.4%
OHC/AdvOHV-4 Cylinder	0.73	0.75	0.50	0.48	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	-5.8%
OHC/AdvOHV-6 Cylinder	5.30	5.24	4.83	4.86	4.84	4.74	4.69	4.64	4.62	4.62	4.61	4.60	4.59	-5.4%
OHC/AdvOHV-8 Cylinder	8.42	8.30	7.95	7.97	7.93	7.83	7.73	7.64	7.60	7.59	7.58	7.56	7.54	-3.6%
4-Valve/4-Cylinder	23.05	23.41	23.93	23.57	23.85	23.90	23.91	23.99	24.01	24.04	24.10	24.15	24.15	0.3%

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
4-Valve/6-Cylinder	34.89	34.80	35.08	35.30	35.18	35.27	35.34	35.34	35.36	35.36	35.34	35.34	35.35	2.6%
4-Valve/8-Cylinder	24.31	24.18	24.35	24.46	24.32	24.36	24.43	24.47	24.48	24.47	24.44	24.42	24.41	2.5%
5-Valve/6-Cylinder	1.01	1.02	1.04	1.03	1.04	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	0.2%
VVT-4 Cylinder	22.12	21.27	19.35	18.61	18.78	18.69	18.53	18.44	18.40	18.39	18.42	18.35	18.32	2.0%
VVT-6 Cylinder	22.75	23.08	24.26	24.28	24.07	24.10	24.11	24.07	24.06	24.02	24.01	24.00	24.01	9.4%
VVT-8 Cylinder	16.67	16.86	17.74	17.80	17.64	17.77	17.91	18.00	17.97	17.96	17.94	17.92	17.91	9.0%
VVL-4 Cylinder	7.74	7.42	4.53	4.14	4.23	4.24	4.24	4.26	4.26	4.27	4.29	4.30	4.30	1.6%
VVL-6 Cylinder	8.99	9.19	9.34	9.06	8.85	8.85	8.88	8.86	8.82	8.80	8.79	8.78	8.78	7.9%
VVL-8 Cylinder	4.66	4.64	4.89	4.89	4.83	4.85	4.85	4.84	4.79	4.79	4.79	4.78	4.78	7.6%
Camless Valve Actuation-4cyl	1.92	3.16	5.35	5.70	5.83	5.98	6.14	6.32	6.38	6.42	6.46	6.57	6.60	--
Camless Valve Actuation-6cyl	2.61	3.87	5.82	6.13	6.38	6.63	6.84	7.01	7.08	7.11	7.12	7.13	7.13	--
Camless Valve Actuation-8cyl	2.01	2.63	3.39	3.59	3.72	3.87	3.98	4.06	4.22	4.22	4.22	4.22	4.23	--
Cylinder Deactivation	10.88	11.27	11.81	11.87	11.81	11.87	11.95	12.01	12.03	12.02	12.01	12.00	11.99	22.0%
Turbocharging/Supercharging	5.43	5.70	6.06	6.04	6.07	6.09	6.10	6.12	6.12	6.12	6.13	6.13	6.14	2.6%
Engine Friction Reduction I	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	-19.4%
Engine Friction Reduction II	55.30	44.93	28.13	23.72	22.55	22.43	21.95	21.11	20.24	19.75	19.29	18.65	18.33	-0.6%
Engine Friction Reduction III	41.16	50.12	62.33	64.50	63.43	60.81	57.75	55.08	53.99	53.90	53.82	53.55	53.16	--
Engine Friction Reduction IV	2.07	3.46	8.02	10.27	12.50	15.23	18.76	22.27	24.23	24.81	25.35	26.25	26.96	--
Stoichiometric GDI/4-Cylinder	11.10	11.94	14.65	14.30	14.38	14.28	14.12	14.01	13.96	13.94	13.95	13.87	13.85	32.7%
Stoichiometric GDI/6-Cylinder	6.07	7.55	10.18	11.01	11.24	11.42	11.34	11.59	11.67	11.65	11.65	11.65	11.65	31.7%
Lean Burn GDI	13.28	15.53	19.57	20.02	20.37	20.47	20.25	20.41	20.47	20.45	20.46	20.45	20.45	33.6%
5W-30 Engine Oil	17.58	13.26	7.64	7.39	7.35	7.26	7.23	7.20	7.20	7.20	7.21	7.21	7.17	-7.6%
5W-20 Engine Oil	81.34	85.64	91.25	91.50	91.53	91.62	91.65	91.67	91.67	91.67	91.66	91.65	91.65	22.2%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	--
Electric Power Steering	5.63	6.60	8.27	8.32	8.39	8.49	8.57	8.64	8.68	8.68	8.69	8.69	8.70	23.7%
Improved Alternator	23.04	24.76	29.06	29.13	29.19	29.58	29.87	30.09	30.15	30.15	30.14	30.14	30.13	27.0%
Improved Oil/Water Pump	85.16	87.86	90.97	90.99	90.97	90.99	91.00	91.01	91.01	91.01	91.00	90.99	90.99	11.5%
Electric Oil/Water Pump	14.11	18.31	26.44	27.35	28.12	29.20	30.04	30.63	30.82	30.81	30.80	30.78	30.77	--
Tires II	15.73	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.0%
Tires III	77.20	82.55	78.31	72.88	69.88	65.94	62.13	59.06	57.22	56.42	55.85	54.79	54.11	23.2%
Tires IV	5.99	10.50	20.58	26.01	29.00	32.94	36.74	39.81	41.65	42.45	43.02	44.07	44.76	--
Front Wheel Drive	51.08	51.41	51.99	51.80	52.03	52.15	52.19	52.27	52.32	52.34	52.42	52.49	52.52	0.1%
Four Wheel Drive Improvements	20.83	20.86	22.69	22.77	22.66	22.70	22.74	22.74	22.72	22.70	22.66	22.61	22.58	15.0%
42V-Launch Assist and Regen	2.18	2.58	2.81	2.94	2.96	2.97	3.00	3.01	3.02	3.02	3.02	3.02	3.02	21.4%
42V-Engine Off at Idle	2.60	2.82	3.12	3.13	3.14	3.16	3.17	3.18	3.18	3.18	3.18	3.18	3.18	18.5%
Tier 2 Emissions Technology	98.92	98.91	98.88	98.89	98.88	98.88	98.88	98.87	98.87	98.87	98.87	98.86	98.86	4.7%
Increased Size/Weight	53.26	57.06	60.85	64.66	68.46	72.26	76.06	79.86	83.66	87.46	91.26	95.06	98.86	11.3%
Variable Compression Ratio	0.22	0.38	0.73	0.88	0.98	1.15	1.35	1.54	1.68	1.77	1.84	1.91	2.02	--

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gasoline													
Mini-compact Cars	28.45	28.93	28.94	29.08	29.50	29.95	30.43	30.60	30.71	31.51	32.31	33.33	34.70
Subcompact Cars	29.42	31.20	31.02	30.96	31.28	31.73	32.36	32.50	32.59	33.69	34.76	36.38	37.89
Compact Cars	33.04	33.35	33.14	33.04	33.46	33.95	34.52	34.64	34.71	36.02	37.17	38.90	40.53
Midsized Cars	29.46	30.45	30.25	30.14	30.38	30.68	31.14	31.23	31.30	32.50	33.70	35.30	36.35
Large Cars	27.06	29.01	28.79	28.65	28.73	28.97	29.44	29.52	29.60	30.68	31.85	33.07	33.86
Two Seater Cars	24.53	25.75	25.64	25.59	25.74	25.94	26.32	26.44	26.52	27.14	27.84	28.98	30.23
Small Pickup	23.41	23.14	23.19	23.23	23.47	23.73	24.42	25.16	25.95	26.59	27.68	28.06	28.85
Large Pickup	19.32	21.38	21.30	21.25	21.31	21.39	22.04	22.63	23.21	23.76	24.48	24.92	25.47
Small Van	25.02	25.31	25.20	25.15	25.35	25.61	26.09	26.94	27.58	27.98	29.03	29.15	29.85
Large Van	23.12	23.80	23.78	23.74	23.87	24.03	24.52	25.38	26.30	26.97	27.95	28.27	28.99
Small Utility	24.70	25.69	25.67	25.65	25.96	26.31	27.06	28.02	28.90	29.46	30.48	30.77	31.44
Large Utility	20.91	20.94	20.88	20.86	21.00	21.19	21.75	22.35	22.93	23.41	24.16	24.50	25.06
Turbo Direct Injection Diesel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	41.98	41.99	42.00	42.00	42.90	43.68	45.37	47.05
Compact Cars	44.60	44.99	44.64	44.32	44.26	44.49	45.09	45.19	45.22	47.17	48.53	50.49	51.99
Midsized Cars	39.77	41.10	40.75	40.44	40.36	40.51	40.93	40.97	40.98	42.70	44.22	46.00	47.07
Large Cars	0.00	0.00	38.83	38.52	38.30	38.24	38.46	38.47	38.45	39.96	41.48	42.97	44.04
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	30.97	30.73	30.75	30.87	31.72	32.39	33.12	33.73	34.87	35.28	35.95
Large Pickup	26.08	28.79	28.56	28.42	28.48	28.53	29.36	29.99	30.51	30.99	31.66	32.10	32.62
Small Van	0.00	0.00	0.00	0.00	0.00	34.00	34.13	34.93	35.53	35.82	36.99	37.06	38.09
Large Van	31.19	32.07	31.83	31.69	31.84	32.00	32.59	33.70	34.74	35.39	36.36	36.64	37.33
Small Utility	33.33	34.62	34.36	34.21	34.39	34.66	35.77	37.14	38.20	38.74	39.83	40.10	40.71
Large Utility	28.22	28.23	28.02	27.91	28.01	28.18	28.95	29.64	30.24	30.67	31.43	31.77	32.33
Methanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plug-in Gasoline Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.50	65.42	66.51	67.62	69.76	72.49
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.02	66.12
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.39	56.57	57.01	58.04
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.87	32.41	32.96
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	32.11	32.19	32.22	32.82	33.51	34.84	36.12
Compact Cars	0.00	0.00	0.00	0.00	33.16	33.26	33.78	33.91	33.95	35.15	36.10	37.62	39.23
Midsize Cars	29.75	30.76	30.55	30.43	30.66	30.96	31.41	31.50	31.58	32.80	34.02	35.65	36.71
Large Cars	27.33	29.30	29.08	28.93	29.01	29.24	29.70	29.79	29.86	30.97	32.17	33.40	34.20
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.71	27.00	27.39	27.95	28.78
Small Pickup	23.64	23.36	23.41	23.45	23.69	23.95	24.66	25.40	26.20	26.86	28.04	28.43	29.22
Large Pickup	19.51	21.59	21.50	21.45	21.51	21.59	22.24	22.84	23.43	23.98	24.71	25.15	25.71
Small Van	25.27	25.56	25.44	25.39	25.58	25.84	26.32	27.18	27.83	28.24	29.31	29.42	30.13
Large Van	23.35	24.03	24.01	23.97	24.10	24.27	24.76	25.62	26.60	27.28	28.28	28.60	29.32
Small Utility	0.00	0.00	25.73	25.64	25.80	26.09	26.76	27.55	28.38	28.99	30.14	30.50	31.32
Large Utility	21.12	21.14	21.08	21.06	21.20	21.39	21.96	22.56	23.15	23.63	24.39	24.73	25.29
Compressed Natural Gas													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	35.68	36.00	35.75	35.58	35.85	36.31	36.92	37.01	37.07	38.51	39.74	41.58	43.15
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	29.23	31.33	31.08	30.89	30.93	31.06	31.45	31.52	31.59	32.79	34.05	35.38	36.20
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	20.87	23.06	22.95	22.88	22.94	22.98	23.66	24.26	24.82	25.35	26.05	26.51	27.10
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	24.96	25.68	25.62	25.57	25.70	25.83	26.34	27.22	28.15	28.80	29.76	30.07	30.79
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	33.04	33.35	33.13	33.03	33.37	33.83	34.38	34.47	34.53	35.77	36.85	38.37	39.65
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	27.06	29.01	28.79	28.65	28.72	28.88	29.33	29.40	29.46	30.49	31.56	32.74	33.45
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.32	21.38	21.29	21.24	21.28	21.33	21.96	22.51	23.03	23.52	24.16	24.58	25.11
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	23.11	23.80	23.77	23.74	23.85	23.99	24.45	25.26	26.11	26.72	27.60	27.89	28.51
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	20.09	22.22	22.12	22.07	22.13	22.21	22.88	23.49	24.08	24.65	25.40	25.84	26.38
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	24.04	24.74	24.70	24.65	24.79	24.95	25.46	26.34	27.29	27.98	28.97	29.29	30.01
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	33.04	33.35	33.13	33.04	33.45	33.94	34.51	34.62	34.69	36.00	37.12	38.76	40.24
Midsize Cars	29.46	30.45	30.25	30.14	30.37	30.68	31.13	31.22	31.30	32.50	33.70	35.29	36.33
Large Cars	27.07	29.01	28.79	28.65	28.73	28.96	29.43	29.51	29.58	30.66	31.83	33.04	33.83
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.32	21.38	21.30	21.24	21.31	21.39	22.03	22.63	23.21	23.75	24.47	24.91	25.46
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	23.12	23.80	23.78	23.74	23.87	24.03	24.51	25.36	26.28	26.94	27.91	28.22	28.92
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	85.70	91.91	93.11	92.20	91.64	92.53	94.16	95.58	96.89	98.75	99.30	100.29	101.43
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	70.53	73.32	73.29	72.60	72.64	73.89	75.90	77.94	79.66	80.86	81.35	81.37	81.51
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel-Electric Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	53.20	53.12	53.05	52.99	54.30	55.18	56.73	58.46
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.90	50.02	50.81	52.20	53.17
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.58	52.12
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	45.14	45.63
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.32
Gasoline-Electric Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	45.94	45.88	45.82	46.47	47.17	48.70	50.51
Compact Cars	47.89	48.30	47.89	47.50	47.30	47.42	48.01	48.06	48.04	50.23	51.55	53.52	55.12
Midsize Cars	42.71	44.13	43.76	43.40	43.21	43.26	43.64	43.67	43.65	45.45	47.02	48.86	49.86
Large Cars	0.00	0.00	0.00	0.00	41.28	41.03	41.06	41.03	40.98	42.17	43.47	44.77	45.73
Two Seater Cars	35.56	37.30	36.98	36.73	36.71	36.77	37.03	37.07	37.09	37.85	38.82	40.18	41.31
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.16	32.42	32.63	32.94	33.17	33.57
Small Van	0.00	0.00	0.00	0.00	0.00	36.50	36.55	37.25	37.71	37.89	38.74	38.76	39.53
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.40	39.50	39.93	
Small Utility	0.00	0.00	0.00	36.88	36.63	36.60	37.39	38.42	39.12	39.50	40.41	40.62	41.34
Large Utility	30.30	30.28	30.00	29.83	29.89	30.01	30.56	31.08	31.56	31.90	32.52	32.79	33.23
Fuel Cell Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	61.25	62.11	59.02	58.45	58.17	58.03	58.28	58.28	58.25	58.84	59.31	59.93	60.55
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.37	51.76	52.07	52.52	52.82
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.50	47.70
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.71	40.15	40.11	40.12
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	44.74	45.01	43.49	43.07	43.10	43.25	43.82	44.37	44.72	44.74	45.02	45.03	45.10
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cell Gasoline													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	39.44	39.15	39.07	39.41	39.38	39.35	39.77	40.25	40.59	40.76
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.69	33.92	33.94	34.31	34.28	34.28
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.92	38.21	38.24	38.47	38.48	38.54
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gasoline														
Mini-compact Cars	35.53	36.07	37.18	37.17	37.14	37.12	37.09	37.06	37.04	37.01	36.99	36.97	36.96	1.0%
Subcompact Cars	39.42	40.25	41.71	41.79	41.75	41.72	41.69	41.65	41.62	41.59	41.56	41.53	41.50	1.2%
Compact Cars	42.51	43.58	45.03	45.16	45.13	45.10	45.07	45.04	45.01	44.98	44.95	44.92	44.89	1.2%
Midsized Cars	37.71	38.67	39.63	39.74	39.71	39.69	39.66	39.64	39.62	39.59	39.56	39.54	39.52	1.1%
Large Cars	35.08	36.12	37.21	37.40	37.37	37.35	37.32	37.31	37.29	37.27	37.24	37.22	37.21	1.0%
Two Seater Cars	31.29	31.94	32.84	32.90	32.87	32.84	32.81	32.80	32.79	32.79	32.77	32.77	32.77	1.0%
Small Pickup	29.68	30.03	30.95	31.14	31.30	31.43	31.49	31.61	31.68	31.67	31.65	31.63	31.61	1.3%
Large Pickup	25.98	26.26	26.65	26.82	26.92	27.04	27.15	27.25	27.26	27.24	27.21	27.19	27.17	1.0%
Small Van	30.63	30.90	32.03	32.03	32.05	32.07	32.07	32.12	32.11	32.11	32.10	32.10	32.10	1.0%
Large Van	29.70	29.96	31.20	31.30	31.39	31.51	31.60	31.71	31.75	31.75	31.75	31.76	31.76	1.2%
Small Utility	32.20	32.53	33.77	33.88	34.03	34.21	34.33	34.48	34.53	34.53	34.52	34.52	34.51	1.2%
Large Utility	25.57	25.79	26.32	26.41	26.50	26.64	26.76	26.87	26.92	26.91	26.90	26.91	26.90	1.0%
Turbo Direct Injection Diesel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	48.68	50.09	52.09	52.24	52.19	52.14	52.09	52.05	52.00	51.96	51.91	51.86	51.82	--
Compact Cars	53.52	54.37	55.67	55.82	55.77	55.72	55.67	55.62	55.58	55.53	55.49	55.44	55.40	0.9%
Midsized Cars	48.49	49.62	50.58	50.67	50.63	50.58	50.54	50.50	50.45	50.41	50.37	50.33	50.29	0.8%
Large Cars	45.34	46.45	47.48	47.65	47.60	47.56	47.51	47.47	47.42	47.38	47.34	47.29	47.25	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	36.64	36.91	37.57	37.71	37.82	37.95	38.03	38.08	38.07	38.02	37.98	37.94	37.90	--
Large Pickup	33.11	33.36	33.75	33.88	33.99	34.12	34.24	34.33	34.33	34.30	34.26	34.23	34.19	0.7%
Small Van	39.34	39.75	41.48	41.48	41.48	41.48	41.47	41.46	41.42	41.38	41.34	41.31	41.29	--
Large Van	38.04	38.25	39.38	39.46	39.53	39.62	39.70	39.76	39.77	39.74	39.71	39.69	39.66	0.9%
Small Utility	41.43	41.71	42.93	43.03	43.13	43.25	43.33	43.39	43.39	43.35	43.32	43.29	43.25	0.9%
Large Utility	32.92	33.20	33.90	34.01	34.11	34.22	34.32	34.40	34.41	34.39	34.36	34.34	34.33	0.8%
Methanol Flex														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Plug-in Gasoline Hybrid														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	76.11	79.76	85.17	86.24	86.17	86.11	86.04	85.98	85.91	85.84	85.78	85.72	85.65	--
Midsized Cars	68.24	70.05	72.39	72.89	72.83	72.76	72.70	72.64	72.59	72.54	72.49	72.45	72.40	--
Large Cars	0.00	0.00	69.19	69.38	69.31	69.23	69.16	69.09	69.01	68.94	68.87	68.80	68.74	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	57.08	57.20	58.84	58.82	58.83	58.87	58.93	59.05	58.99	58.93	58.87	58.81	58.76	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.25	60.17	60.09	--
Small Utility	59.52	60.18	63.24	63.86	64.63	65.27	65.71	66.00	66.00	65.93	65.87	65.80	65.73	--
Large Utility	0.00	0.00	0.00	0.00	50.26	50.36	50.49	50.64	50.68	50.61	50.54	50.48	50.41	--
Ethanol														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol Flex														
Mini-compact Cars	33.47	34.19	35.66	35.69	35.66	35.64	35.63	35.62	35.62	35.61	35.60	35.61	35.60	--
Subcompact Cars	37.63	39.03	41.19	41.43	41.40	41.37	41.34	41.31	41.28	41.25	41.22	41.19	41.16	--
Compact Cars	41.21	43.16	45.18	45.41	45.38	45.35	45.32	45.30	45.27	45.24	45.21	45.18	45.15	--
Midsized Cars	38.12	39.17	40.15	40.28	40.25	40.22	40.20	40.18	40.15	40.13	40.10	40.08	40.06	1.1%
Large Cars	35.44	36.49	37.52	37.72	37.69	37.67	37.64	37.63	37.61	37.59	37.56	37.55	37.53	1.0%
Two Seater Cars	29.58	30.44	31.85	32.07	32.04	32.02	31.99	31.99	32.01	32.00	31.99	32.00	32.01	--
Small Pickup	30.08	30.43	31.37	31.56	31.72	31.86	31.91	32.03	32.10	32.09	32.07	32.05	32.03	1.3%
Large Pickup	26.25	26.54	26.94	27.11	27.21	27.33	27.45	27.55	27.56	27.54	27.51	27.50	27.47	1.0%
Small Van	30.92	31.19	32.34	32.34	32.36	32.39	32.39	32.43	32.43	32.42	32.42	32.42	32.42	1.0%
Large Van	30.08	30.36	31.64	31.75	31.84	31.96	32.05	32.16	32.20	32.20	32.20	32.21	32.21	1.2%
Small Utility	32.27	32.66	34.09	34.24	34.39	34.58	34.69	34.85	34.90	34.89	34.88	34.88	34.88	--
Large Utility	25.82	26.05	26.61	26.70	26.79	26.93	27.05	27.17	27.22	27.20	27.20	27.20	27.20	1.1%
Compressed Natural Gas														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	45.19	46.34	47.81	47.93	47.89	47.85	47.81	47.78	47.74	47.71	47.67	47.64	47.60	1.2%
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	37.48	38.43	39.51	39.70	39.66	39.63	39.59	39.56	39.54	39.51	39.48	39.46	39.43	1.0%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	27.63	27.92	28.32	28.50	28.60	28.71	28.82	28.90	28.91	28.88	28.85	28.83	28.80	0.9%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	31.53	31.82	33.05	33.16	33.25	33.36	33.44	33.54	33.56	33.54	33.53	33.52	33.52	1.1%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Compressed Natural Gas Bi-Fuel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	41.20	42.15	43.26	43.35	43.31	43.28	43.24	43.21	43.17	43.14	43.10	43.07	43.04	1.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	34.47	35.29	36.18	36.33	36.30	36.26	36.23	36.21	36.19	36.17	36.14	36.12	36.10	0.9%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	25.57	25.81	26.13	26.26	26.35	26.47	26.57	26.66	26.67	26.64	26.62	26.59	26.56	0.9%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	29.15	29.39	30.36	30.44	30.51	30.60	30.69	30.76	30.79	30.79	30.78	30.78	30.77	1.1%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	26.88	27.14	27.51	27.66	27.77	27.91	28.03	28.14	28.16	28.14	28.11	28.09	28.07	1.0%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	30.70	30.95	32.14	32.24	32.32	32.42	32.52	32.62	32.65	32.65	32.64	32.65	32.66	1.2%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases Bi-Fuel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	42.12	43.15	44.58	44.70	44.67	44.63	44.60	44.57	44.54	44.51	44.48	44.45	44.42	1.2%
Midsize Cars	37.69	38.65	39.60	39.71	39.68	39.65	39.63	39.60	39.57	39.54	39.51	39.48	39.46	1.1%
Large Cars	35.04	36.07	37.16	37.35	37.32	37.29	37.26	37.24	37.22	37.20	37.17	37.15	37.13	1.0%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	25.97	26.24	26.62	26.78	26.88	26.99	27.11	27.20	27.20	27.18	27.16	27.13	27.11	1.0%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	29.62	29.88	30.99	31.09	31.18	31.29	31.39	31.48	31.52	31.52	31.51	31.52	31.50	1.2%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	102.53	103.26	104.11	104.08	103.98	103.87	103.77	103.66	103.57	103.47	103.37	103.29	103.20	0.5%
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	81.79	81.84	82.43	82.36	82.31	82.33	82.34	82.30	82.25	82.15	82.06	81.97	81.88	0.5%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel-Electric Hybrid														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	64.86	64.90	64.83	64.77	64.70	64.64	64.57	64.50	64.44	64.38	64.32	--
Compact Cars	60.43	62.23	64.26	64.59	64.53	64.48	64.42	64.36	64.31	64.25	64.20	64.15	64.09	--
Midsized Cars	54.57	55.76	57.20	57.64	57.59	57.54	57.49	57.44	57.39	57.34	57.29	57.24	57.19	--
Large Cars	53.03	53.82	54.78	55.02	54.96	54.91	54.86	54.81	54.77	54.73	54.68	54.64	54.60	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	46.45	46.63	47.95	47.93	47.93	47.93	47.93	47.93	47.89	47.84	47.79	47.75	47.70	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	52.31	52.35	52.54	52.79	52.94	53.07	53.08	53.01	52.95	52.89	52.85	--
Large Utility	39.60	39.75	40.37	40.49	40.60	40.74	40.89	41.03	41.07	41.04	41.01	41.00	40.98	--
Gasoline-Electric Hybrid														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	52.27	53.69	55.81	55.95	55.90	55.85	55.80	55.75	55.70	55.65	55.60	55.55	55.51	--
Compact Cars	56.67	57.57	58.89	59.05	59.00	58.96	58.91	58.86	58.81	58.76	58.72	58.67	58.62	0.8%
Midsized Cars	51.31	52.42	53.35	53.45	53.41	53.37	53.32	53.28	53.24	53.19	53.15	53.11	53.06	0.8%
Large Cars	47.26	48.66	50.21	50.46	50.41	50.37	50.32	50.28	50.23	50.19	50.15	50.10	50.06	--
Two Seater Cars	42.52	43.32	44.47	44.53	44.49	44.44	44.40	44.35	44.31	44.27	44.23	44.18	44.14	0.7%
Small Pickup	0.00	0.00	43.64	43.68	43.74	43.87	44.00	44.14	44.15	44.09	44.03	43.98	43.93	--
Large Pickup	34.00	34.35	34.81	34.98	35.12	35.26	35.38	35.48	35.48	35.44	35.40	35.37	35.33	--
Small Van	40.47	40.79	42.11	42.10	42.10	42.09	42.08	42.06	42.01	41.97	41.92	41.89	41.86	--
Large Van	40.39	40.57	41.53	41.61	41.70	41.80	41.89	41.97	41.99	41.96	41.93	41.91	41.88	--
Small Utility	42.13	42.48	43.79	43.91	44.03	44.15	44.24	44.30	44.29	44.25	44.21	44.17	44.13	--
Large Utility	33.74	33.99	34.65	34.75	34.85	34.95	35.05	35.14	35.14	35.11	35.09	35.07	35.05	0.6%
Fuel Cell Methanol														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	61.46	61.91	62.54	62.52	62.46	62.40	62.33	62.27	62.21	62.15	62.09	62.02	61.96	0.0%
Compact Cars	60.66	60.95	61.62	61.63	61.57	61.51	61.45	61.39	61.33	61.27	61.21	61.15	61.09	--
Midsized Cars	53.41	54.08	54.57	54.55	54.50	54.44	54.39	54.33	54.28	54.23	54.17	54.12	54.07	--
Large Cars	48.09	48.48	48.97	48.97	48.92	48.87	48.82	48.78	48.73	48.68	48.64	48.59	48.55	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	40.29	40.27	40.63	40.58	40.53	40.49	40.45	40.40	40.36	40.31	40.27	40.23	40.19	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	45.26	45.29	45.61	45.57	45.55	45.56	45.56	45.54	45.51	45.46	45.41	45.36	45.31	0.0%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.50	34.47	34.43	34.39	34.35	34.31	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cell Gasoline														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	41.09	41.43	41.85	41.85	41.80	41.76	41.72	41.68	41.64	41.60	41.56	41.53	41.49	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	34.43	34.41	34.72	34.68	34.64	34.60	34.56	34.53	34.49	34.45	34.41	34.38	34.34	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	38.68	38.70	38.98	38.95	38.92	38.93	38.94	38.92	38.89	38.85	38.80	38.76	38.72	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

-- = Not applicable.

Sources: 2005 and 2006 values derived using: National Highway Traffic and Safety Administration, Final Year Fuel Economy Reports from Auto Manufacturers, and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gasoline													
Mini-compact Cars	29.8	29.3	29.4	29.5	29.6	29.7	29.8	29.8	29.8	29.9	30.1	30.3	30.6
Subcompact Cars	21.6	21.9	22.0	22.1	22.2	22.3	22.4	22.4	22.4	22.6	22.8	23.1	23.3
Compact Cars	17.4	18.0	18.1	18.2	18.3	18.4	18.4	18.5	18.5	18.6	18.8	19.1	19.4
Midsize Cars	23.9	24.2	24.3	24.4	24.5	24.6	24.6	24.6	24.7	24.8	25.1	25.4	25.6
Large Cars	29.9	33.5	33.6	33.7	33.8	33.9	33.9	34.0	34.0	34.2	34.4	34.7	34.9
Two Seater Cars	45.2	46.4	46.5	46.6	46.7	46.7	46.8	46.8	46.9	47.0	47.1	47.4	47.6
Small Pickup	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	18.0	18.0	18.2
Large Pickup	21.0	21.4	21.5	21.6	21.7	21.8	21.9	22.1	22.2	22.3	22.5	22.6	22.7
Small Van	24.8	25.3	25.4	25.5	25.6	25.7	25.8	26.0	26.1	26.2	26.5	26.5	26.7
Large Van	25.0	25.3	25.4	25.6	25.6	25.7	25.8	26.0	26.2	26.3	26.5	26.5	26.7
Small Utility	24.3	24.6	24.7	24.8	24.9	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.0
Large Utility	34.7	35.0	35.1	35.2	35.3	35.4	35.5	35.7	35.8	36.0	36.2	36.3	36.4
Turbo Direct Injection Diesel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	23.9	23.9	23.9	23.9	24.0	24.1	24.3	24.5
Compact Cars	18.8	19.4	19.4	19.5	19.6	19.6	19.6	19.6	19.6	19.7	19.9	20.1	20.3
Midsize Cars	26.0	26.2	26.3	26.3	26.3	26.4	26.4	26.3	26.3	26.5	26.6	26.8	27.0
Large Cars	0.0	0.0	35.8	35.6	35.7	35.7	35.7	35.7	35.7	35.8	36.0	36.2	36.4
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	20.2	20.2	20.1	20.2	20.2	20.2	20.3	20.3	20.4	20.4	20.5
Large Pickup	22.8	23.2	23.2	23.3	23.4	23.5	23.6	23.7	23.7	23.8	23.9	24.0	24.1
Small Van	0.0	0.0	0.0	0.0	0.0	28.8	28.5	28.5	28.6	28.5	28.7	28.7	28.8
Large Van	27.0	27.4	27.5	27.5	27.6	27.6	27.6	27.7	27.8	27.8	28.0	28.0	28.1
Small Utility	26.7	26.9	27.0	27.1	27.2	27.2	27.4	27.5	27.7	27.7	27.9	28.0	28.0
Large Utility	36.4	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8
Methanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plug-in Gasoline Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	24.1	24.1	24.2	24.4	24.7
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8	31.9
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.4	33.5	33.5
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	32.4	32.4
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	24.1	23.6	23.6	23.5	23.6	23.7	23.9
Compact Cars	0.0	0.0	0.0	0.0	19.5	19.1	19.0	19.0	19.0	19.0	19.1	19.3	19.5
Midsized Cars	24.7	25.0	24.7	24.8	24.9	24.9	25.0	25.0	25.0	25.2	25.5	25.8	26.0
Large Cars	31.5	34.9	34.5	34.5	34.5	34.6	34.6	34.5	34.4	34.6	34.8	35.1	35.3
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	49.2	49.3	49.3	49.5
Small Pickup	19.6	19.7	19.6	19.5	19.3	19.1	19.0	19.0	18.9	18.9	18.9	18.9	19.1
Large Pickup	22.5	22.9	22.8	22.6	22.6	22.4	22.3	22.4	22.6	22.7	22.9	23.0	23.1
Small Van	27.1	27.8	27.6	27.4	27.5	27.4	27.2	27.2	27.2	27.1	27.3	27.3	27.4
Large Van	26.7	27.1	27.0	26.9	26.9	26.7	26.6	26.6	26.6	26.6	26.8	26.9	27.1
Small Utility	0.0	0.0	25.1	25.2	25.3	25.4	25.5	25.7	25.8	25.9	26.1	26.2	26.4
Large Utility	35.1	35.4	35.5	35.6	35.7	35.8	35.9	36.1	36.2	36.4	36.6	36.7	36.8
Compressed Natural Gas													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	24.3	24.9	25.0	25.1	25.2	25.3	25.3	25.3	25.4	25.5	25.8	26.1	26.3
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	37.1	40.8	40.9	41.0	41.1	41.1	41.2	41.2	41.2	41.4	41.6	41.9	42.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	28.3	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.9
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	32.2	32.6	32.7	32.8	32.9	33.0	33.1	33.2	33.4	33.5	33.7	33.8	33.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	23.1	23.7	23.8	23.9	23.9	24.0	24.1	24.1	24.1	24.3	24.5	24.8	25.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	36.1	39.7	39.8	39.9	40.0	40.1	40.1	40.2	40.2	40.4	40.6	40.9	41.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	27.2	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.6	28.7	28.8
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	31.2	31.5	31.7	31.8	31.9	31.9	32.0	32.2	32.4	32.5	32.7	32.7	32.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	27.5	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.7	28.8	29.0	29.1	29.2
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	31.5	31.8	32.0	32.1	32.1	32.2	32.3	32.5	32.7	32.8	33.0	33.0	33.2
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	22.5	23.1	23.2	23.3	23.4	23.5	23.5	23.5	23.6	23.7	23.9	24.2	24.5
Midsize Cars	29.2	29.5	29.6	29.7	29.8	29.8	29.9	29.9	30.0	30.1	30.4	30.7	30.9
Large Cars	35.2	38.8	38.9	39.0	39.1	39.2	39.2	39.3	39.3	39.5	39.7	40.0	40.2
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	26.3	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.5	27.6	27.8	27.9	28.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	30.2	30.6	30.7	30.9	30.9	31.0	31.1	31.3	31.5	31.6	31.8	31.9	32.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	76.4	79.2	80.0	79.6	79.2	79.0	78.8	78.6	78.4	78.2	77.6	77.5	77.3
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	58.8	60.9	62.5	62.0	61.4	61.0	60.6	60.1	59.7	59.6	58.9	58.9	58.9
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel-Electric Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	25.1	25.0	25.0	24.9	25.0	25.0	25.2	25.3
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	31.8	31.9	32.0	32.1
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3	42.4
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	35.4	35.4
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.4
Gasoline-Electric Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	26.6	25.7	25.5	25.5	25.4	25.5	25.6
Compact Cars	21.2	21.7	21.3	21.3	21.7	21.7	21.5	21.3	21.1	21.1	21.1	21.2	21.2
Midsized Cars	27.2	27.1	27.1	27.1	27.0	27.0	27.0	27.0	27.0	27.1	27.1	27.4	27.5
Large Cars	0.0	0.0	0.0	0.0	37.4	36.8	36.7	36.6	36.5	36.6	36.7	36.8	37.0
Two Seater Cars	51.4	52.5	52.5	52.5	52.5	52.5	52.4	52.4	52.4	52.5	52.5	52.7	52.9
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4	27.3	27.1	26.8	26.7	26.6
Small Van	0.0	0.0	0.0	0.0	0.0	32.4	31.0	30.8	30.6	30.4	30.2	30.1	30.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.2	29.7	29.7
Small Utility	0.0	0.0	0.0	28.7	28.1	28.0	28.0	28.0	28.0	28.0	28.1	28.1	28.2
Large Utility	40.0	39.6	39.6	39.6	39.5	39.5	39.4	39.4	39.4	39.4	39.4	39.5	39.6
Fuel Cell Methanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	81.1	77.2	74.8	73.3	71.6	70.0	68.0	66.5	65.0	63.2	61.5	59.9	58.5
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1	70.2	68.4	66.7	65.1
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.7	78.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2	79.6	77.7	75.9
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	98.4	95.7	92.3	90.2	87.7	85.1	82.1	79.5	77.1	75.2	73.1	71.4	69.7
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cell Gasoline													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	122.1	118.8	115.3	111.0	107.7	104.6	100.8	97.1	93.9	91.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.8	107.6	103.9	99.7	96.6	93.5
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.9	98.1	94.9	91.4	88.6	85.7
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Price													
Cars	23.2	24.9	24.9	24.9	25.4	25.5	25.4	25.5	25.5	25.7	26.0	26.3	26.4
Trucks	26.5	26.8	27.0	27.2	27.2	27.3	27.5	27.7	27.8	28.0	28.3	28.4	28.6
Light Duty Vehicles	24.9	25.8	25.9	26.0	26.2	26.4	26.5	26.6	26.7	26.9	27.2	27.4	27.6

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gasoline														
Mini-compact Cars	30.8	30.9	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	0.3%
Subcompact Cars	23.6	23.8	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	0.4%
Compact Cars	19.7	19.8	20.0	20.0	20.0	20.0	20.1	20.1	20.1	20.1	20.1	20.1	20.1	0.4%
Midsized Cars	25.9	26.1	26.3	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	0.4%
Large Cars	35.2	35.4	35.6	35.6	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	0.3%
Two Seater Cars	47.8	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.2	0.2%
Small Pickup	18.3	18.4	18.6	18.6	18.7	18.7	18.7	18.8	18.8	18.8	18.8	18.8	18.8	0.5%
Large Pickup	22.8	22.9	23.0	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	0.3%
Small Van	26.9	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.4	27.4	27.4	27.4	27.4	0.3%
Large Van	26.9	26.9	27.2	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3	27.4	0.3%
Small Utility	26.2	26.3	26.6	26.6	26.6	26.6	26.7	26.7	26.8	26.8	26.8	26.8	26.8	0.4%
Large Utility	36.6	36.6	36.8	36.8	36.9	36.9	36.9	37.0	37.0	37.0	37.0	37.0	37.0	0.2%
Turbo Direct Injection Diesel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	24.7	24.9	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.1	--
Compact Cars	20.4	20.6	20.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	0.3%
Midsized Cars	27.2	27.4	27.5	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	0.2%
Large Cars	36.6	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	20.5	20.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	--
Large Pickup	24.2	24.2	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.5	24.5	24.5	0.2%
Small Van	29.0	29.0	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	--
Large Van	28.3	28.3	28.5	28.5	28.5	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	0.2%
Small Utility	28.2	28.2	28.4	28.4	28.5	28.5	28.5	28.6	28.6	28.6	28.6	28.6	28.6	0.3%
Large Utility	37.9	38.0	38.1	38.2	38.2	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.3	0.2%
Methanol Flex														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Plug-in Gasoline Hybrid														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	25.1	25.4	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	--
Midsized Cars	32.0	32.2	32.5	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.5	32.3	--
Large Cars	0.0	0.0	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	35.0	35.0	35.1	35.2	35.2	35.2	35.2	35.2	35.2	35.3	35.3	35.3	35.3	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	35.3	35.3	--
Small Utility	33.7	33.8	34.2	34.3	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	--
Large Utility	0.0	0.0	0.0	0.0	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2	--
Ethanol														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol Flex														
Mini-compact Cars	32.6	32.7	32.9	32.8	32.8	32.9	32.9	32.8	32.8	32.8	32.7	32.7	32.6	--
Subcompact Cars	24.1	24.4	24.6	24.6	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	--
Compact Cars	19.8	20.1	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	--
Midsized Cars	26.3	26.5	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	0.3%
Large Cars	35.6	35.8	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	0.1%
Two Seater Cars	49.7	49.9	50.0	50.0	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	--
Small Pickup	19.2	19.3	19.5	19.3	19.4	19.6	19.7	19.7	19.7	19.7	19.7	19.8	19.7	0.0%
Large Pickup	23.2	23.3	23.4	23.4	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.6	23.6	0.1%
Small Van	27.6	27.7	28.0	27.9	27.9	28.1	28.1	28.1	28.2	28.2	28.2	28.2	28.2	0.1%
Large Van	27.2	27.3	27.5	27.5	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	0.1%
Small Utility	26.6	26.7	26.9	27.0	27.0	27.1	27.1	27.1	27.1	27.2	27.2	27.2	27.2	--
Large Utility	37.0	37.0	37.2	37.2	37.2	37.3	37.3	37.3	37.4	37.4	37.4	37.4	37.4	0.2%
Compressed Natural Gas														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	26.7	26.9	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	0.4%
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	42.4	42.6	42.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	30.0	30.1	30.2	30.2	30.3	30.3	30.3	30.3	30.4	30.4	30.4	30.4	30.4	0.2%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	34.1	34.2	34.4	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Compressed Natural Gas Bi-Fuel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	25.3	25.5	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	0.3%
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	41.3	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.8	41.8	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	28.9	29.0	29.1	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	33.0	33.1	33.3	33.4	33.4	33.4	33.4	33.5	33.5	33.5	33.5	33.5	33.5	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Liquefied Petroleum Gases														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	29.3	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	33.3	33.4	33.6	33.6	33.7	33.7	33.7	33.7	33.8	33.8	33.8	33.8	33.8	0.2%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Liquefied Petroleum Gases Bi-Fuel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	24.8	25.0	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	0.4%
Midsized Cars	31.2	31.4	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	0.3%
Large Cars	40.5	40.7	40.9	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	28.1	28.2	28.3	28.4	28.4	28.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	32.2	32.2	32.5	32.5	32.6	32.6	32.6	32.7	32.7	32.7	32.7	32.7	32.7	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	77.2	77.1	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1	77.1	-0.1%
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	58.8	58.8	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8	-0.1%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel-Electric Hybrid														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	--
Compact Cars	25.5	25.7	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	--
Midsized Cars	32.2	32.4	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	--
Large Cars	42.5	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.8	42.8	42.8	42.8	42.8	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	35.5	35.5	35.7	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.9	35.9	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	35.2	35.2	35.2	35.3	35.3	35.3	35.4	35.4	35.4	35.4	35.4	--
Large Utility	45.4	45.5	45.6	45.6	45.6	45.6	45.7	45.7	45.8	45.8	45.8	45.8	45.8	--
Gasoline-Electric Hybrid														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	25.7	25.7	25.9	25.9	25.9	25.9	25.9	25.9	25.8	25.8	25.8	25.8	25.8	--
Compact Cars	21.3	21.4	21.5	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	0.0%
Midsized Cars	27.7	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	0.1%
Large Cars	37.2	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	--
Two Seater Cars	53.1	53.1	53.2	53.2	53.2	53.1	53.1	53.1	53.0	53.0	53.0	52.9	52.9	0.0%
Small Pickup	0.0	0.0	24.2	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	--
Large Pickup	26.6	26.5	26.6	26.6	26.6	26.6	26.7	26.7	26.7	26.7	26.6	26.6	26.6	--
Small Van	30.0	29.9	30.1	30.1	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.9	--
Large Van	29.8	29.8	29.9	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.1	30.1	--
Small Utility	28.4	28.4	28.6	28.7	28.7	28.7	28.7	28.8	28.8	28.8	28.8	28.8	28.8	--
Large Utility	39.7	39.8	39.9	39.9	39.9	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	0.1%
Fuel Cell Methanol														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	56.9	55.7	54.4	53.5	52.5	51.7	50.8	50.0	49.3	48.5	47.9	47.2	46.6	-2.1%
Compact Cars	54.8	53.7	52.3	51.4	50.4	49.6	48.7	47.8	47.1	46.4	45.7	45.0	44.4	--
Midsized Cars	63.4	61.9	60.4	59.4	58.3	57.3	56.4	55.4	54.5	53.7	52.9	52.2	51.5	--
Large Cars	76.3	74.7	73.0	71.8	70.6	69.6	68.5	67.4	66.4	65.5	64.7	63.9	63.1	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	74.0	72.4	70.4	69.0	67.6	66.3	65.0	63.7	62.5	61.4	60.4	59.4	58.5	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	68.0	66.5	64.9	63.6	62.3	61.1	59.9	58.8	57.7	56.8	55.9	55.0	54.1	-2.3%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	77.7	76.4	75.2	74.0	72.9	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cell Gasoline														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	88.3	85.5	82.8	82.8	82.9	82.9	83.0	83.0	83.1	83.1	83.2	83.2	83.2	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	90.4	87.6	84.4	84.5	84.5	84.6	84.7	84.7	84.8	84.8	84.9	85.0	85.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	83.0	80.5	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.9	78.0	78.0	78.1	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Average Price														
Cars	26.7	26.9	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	0.4%
Trucks	28.8	28.9	29.2	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	0.4%
Light Duty Vehicles	27.8	27.9	28.2	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3	0.4%

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gasoline													
Mini-compact Cars	440	450	450	452	459	466	473	476	477	490	502	518	539
Subcompact Cars	444	469	466	465	470	477	486	488	490	506	522	546	569
Compact Cars	470	478	475	474	479	486	494	496	497	516	533	558	581
Midsize Cars	518	538	535	533	537	542	551	552	554	574	595	623	642
Large Cars	491	539	535	532	533	538	547	548	549	570	591	614	629
Two Seater Cars	434	459	457	455	458	461	468	470	471	482	495	515	537
Small Pickup	493	485	486	487	492	497	512	527	544	558	581	590	606
Large Pickup	543	601	599	597	599	601	620	637	654	670	690	704	720
Small Van	514	508	506	505	509	514	524	541	553	561	583	585	599
Large Van	518	551	550	549	552	556	568	588	610	626	648	657	674
Small Utility	460	475	475	475	480	487	501	519	535	546	565	570	583
Large Utility	528	523	522	521	525	529	543	558	573	585	604	613	627
Turbo Direct Injection Diesel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	643	656	659	661	683	705	738	768
Compact Cars	634	646	641	639	647	656	668	670	671	697	720	754	785
Midsize Cars	699	727	722	719	725	732	743	746	747	775	803	841	866
Large Cars	0	0	722	718	720	726	738	740	742	769	799	829	849
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	656	657	664	671	691	712	734	754	784	796	818
Large Pickup	734	812	808	806	809	812	838	861	883	905	932	950	972
Small Van	0	0	0	0	0	694	707	730	747	758	787	789	809
Large Van	699	743	742	741	745	750	767	794	823	845	875	887	910
Small Utility	621	642	641	641	648	657	676	700	722	737	762	770	787
Large Utility	713	706	704	704	708	715	734	754	773	789	815	827	846
Methanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plug-in Gasoline Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	620	621	645	666	698	726
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	778	802
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	682	706	713	728
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	367	378	394
Subcompact Cars	0	0	0	0	0	0	355	356	357	369	381	399	415
Compact Cars	0	0	0	0	350	355	361	362	363	377	389	407	424
Midsized Cars	378	393	390	389	392	396	402	403	404	419	434	454	468
Large Cars	359	393	390	388	389	393	399	400	401	416	432	448	459
Two Seater Cars	0	0	0	0	0	0	0	0	344	352	361	376	392
Small Pickup	360	354	355	355	359	363	374	385	397	407	424	430	443
Large Pickup	397	439	437	436	437	439	453	465	477	489	504	514	525
Small Van	375	371	369	369	371	375	382	395	404	410	425	427	437
Large Van	378	402	401	401	403	406	415	429	445	457	473	480	492
Small Utility	0	0	347	346	351	355	366	379	391	398	412	416	425
Large Utility	386	382	381	381	383	386	397	408	418	427	441	447	457
Compressed Natural Gas													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	282	287	285	284	288	292	297	298	298	310	320	335	349
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	295	323	321	319	320	323	328	329	330	342	355	368	377
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	326	361	359	358	359	361	372	382	392	402	414	422	432
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	311	330	330	329	331	334	341	353	366	376	389	394	404
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	235	239	238	237	240	243	247	248	248	258	267	279	291
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	246	269	267	266	267	269	273	274	275	285	296	307	314
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	272	301	299	299	299	301	310	319	327	335	345	352	360
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	259	275	275	275	276	278	284	294	305	313	324	329	337
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	462	511	509	508	509	511	527	542	556	570	587	598	612
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	440	468	467	467	469	473	483	500	518	532	551	559	573
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	376	383	380	379	384	389	396	397	398	413	426	447	465
Midsized Cars	414	431	428	426	429	434	440	442	443	459	476	498	513
Large Cars	393	431	428	426	427	430	437	439	440	456	473	491	503
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	435	481	479	478	479	481	496	510	523	536	552	563	576
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	414	440	440	439	442	445	454	470	488	501	519	526	539
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Electric													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	632	643	645	646	671	693	726	755
Midsized Cars	0	0	0	0	0	0	0	0	720	747	773	809	834
Large Cars	0	0	0	0	0	0	0	0	0	0	0	798	818
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	757	760	779
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	815
Gasoline-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	608	610	612	632	652	683	711
Compact Cars	587	598	594	592	599	608	618	620	621	645	666	698	726
Midsized Cars	647	673	668	666	671	678	688	690	692	718	743	778	802
Large Cars	0	0	0	0	667	672	683	685	687	712	739	768	786
Two Seater Cars	542	573	571	569	572	576	584	587	589	603	619	644	671
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	797	818	838	863	880	900
Small Van	0	0	0	0	0	643	654	676	692	702	728	731	749
Large Van	0	0	0	0	0	0	0	0	0	0	811	822	842
Small Utility	0	0	0	593	600	608	626	648	669	682	706	713	728
Large Utility	661	654	652	652	656	662	679	698	716	731	755	766	783
Fuel Cell Methanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Hydrogen													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	444	469	466	465	470	477	486	488	490	506	522	546	569
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	554	574	595	623	642
Large Cars	0	0	0	0	0	0	0	0	0	0	0	614	629
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	561	583	585	599
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	460	475	475	475	480	487	501	519	535	546	565	570	583
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cell Gasoline													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	532	533	538	547	548	549	570	591	614	629
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	541	553	561	583	585	599
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	519	535	546	565	570	583
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gasoline														
Mini-compact Cars	552	561	578	578	577	577	577	576	576	575	575	575	575	1.0%
Subcompact Cars	592	605	626	628	627	627	626	626	625	625	624	624	623	1.2%
Compact Cars	610	626	646	649	648	648	647	647	646	646	646	645	645	1.3%
Midsized Cars	665	682	699	701	701	700	700	700	699	699	698	698	697	1.1%
Large Cars	652	671	692	696	695	695	694	694	693	693	693	692	692	1.0%
Two Seater Cars	556	568	584	585	584	584	583	583	583	583	582	582	582	1.0%
Small Pickup	623	631	649	654	658	661	662	665	667	667	666	666	665	1.3%
Large Pickup	734	742	752	758	761	765	768	771	772	771	770	770	769	1.0%
Small Van	615	620	643	643	643	643	644	644	644	644	644	644	644	1.0%
Large Van	690	696	723	726	729	733	736	739	740	740	740	740	740	1.2%
Small Utility	597	604	626	628	631	635	638	641	642	642	642	642	642	1.3%
Large Utility	640	645	658	661	663	667	670	673	674	674	674	674	674	1.1%
Turbo Direct Injection Diesel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	799	816	846	847	846	846	845	845	844	843	843	842	841	--
Compact Cars	824	846	873	876	875	874	874	873	873	872	871	871	870	1.3%
Midsized Cars	898	920	944	947	946	946	945	944	944	943	943	942	941	1.1%
Large Cars	880	906	934	939	938	938	937	937	936	936	935	934	934	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	842	852	877	883	888	892	894	898	900	900	899	899	898	--
Large Pickup	991	1002	1016	1023	1028	1033	1037	1041	1042	1041	1040	1039	1038	1.0%
Small Van	830	837	868	868	868	869	869	870	870	870	869	869	870	--
Large Van	931	940	976	981	984	989	993	998	999	999	999	999	999	1.2%
Small Utility	806	815	845	848	852	858	861	866	867	867	867	867	866	1.3%
Large Utility	864	871	889	892	895	900	904	908	910	910	909	910	909	1.1%
Methanol Flex														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Plug-in Gasoline Hybrid														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	763	783	808	811	810	810	809	809	808	807	807	806	806	--
Midsized Cars	832	852	874	877	876	876	875	874	874	873	873	872	872	--
Large Cars	0	0	865	869	869	868	868	867	867	866	866	865	865	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	768	775	804	804	804	804	804	805	805	805	805	805	805	--
Large Van	0	0	0	0	0	0	0	0	0	0	925	925	925	--
Small Utility	746	754	782	785	789	794	797	802	803	803	802	802	802	--
Large Utility	0	0	0	0	829	833	837	841	843	842	842	842	842	--
Ethanol														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Ethanol Flex														
Mini-compact Cars	403	409	422	422	422	421	421	421	420	420	420	420	419	--
Subcompact Cars	432	441	457	458	458	457	457	457	456	456	456	455	455	--
Compact Cars	446	457	472	473	473	473	472	472	472	472	471	471	471	--
Midsized Cars	486	498	511	512	512	511	511	511	510	510	510	509	509	1.1%
Large Cars	476	490	505	508	507	507	507	506	506	506	506	505	505	1.0%
Two Seater Cars	406	414	426	427	426	426	426	425	425	425	425	425	425	--
Small Pickup	455	461	474	477	480	483	483	486	487	487	486	486	486	1.3%
Large Pickup	536	542	549	553	556	558	561	563	563	563	562	562	561	1.0%
Small Van	449	453	469	469	469	470	470	470	470	470	470	470	470	1.0%
Large Van	503	508	528	530	532	535	537	539	540	540	540	540	540	1.2%
Small Utility	436	441	457	459	461	464	466	468	469	469	469	469	468	--
Large Utility	467	471	481	482	484	487	489	491	492	492	492	492	492	1.1%
Compressed Natural Gas														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	366	376	388	389	389	389	388	388	388	388	387	387	387	1.3%
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	391	403	415	417	417	417	416	416	416	416	416	415	415	1.0%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	440	445	451	455	457	459	461	463	463	463	462	462	461	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	414	418	434	436	438	440	441	443	444	444	444	444	444	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Compressed Natural Gas Bi-Fuel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	305	313	323	324	324	324	324	323	323	323	323	323	322	1.3%
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	326	336	346	348	348	347	347	347	347	347	346	346	346	1.0%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	367	371	376	379	381	382	384	386	386	386	385	385	384	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	345	348	362	363	365	366	368	369	370	370	370	370	370	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Liquefied Petroleum Gases														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	624	631	639	644	647	650	653	656	656	655	655	654	653	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	586	592	615	617	620	623	625	628	629	629	629	629	629	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Liquefied Petroleum Gases Bi-Fuel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	488	501	517	519	518	518	518	517	517	517	516	516	516	1.3%
Midsized Cars	532	545	560	561	561	560	560	560	559	559	559	558	558	1.1%
Large Cars	521	537	553	556	556	556	555	555	555	554	554	554	554	1.0%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	587	594	602	606	609	612	615	617	617	617	616	616	615	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	552	557	579	581	583	586	589	591	592	592	592	592	592	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Electric														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel-Electric Hybrid														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	814	816	815	814	814	813	813	812	811	811	810	--
Compact Cars	794	814	840	843	843	842	841	841	840	840	839	839	838	--
Midsized Cars	865	886	909	912	911	911	910	909	909	908	908	907	907	--
Large Cars	847	873	899	904	904	903	902	902	902	901	900	900	899	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	799	806	836	836	836	837	837	838	838	837	837	837	837	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	813	817	821	826	829	834	835	835	835	835	834	--
Large Utility	832	839	856	859	862	867	871	875	877	876	876	876	876	--
Gasoline-Electric Hybrid														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	740	756	783	784	784	783	783	782	781	781	780	780	779	--
Compact Cars	763	783	808	811	810	810	809	809	808	807	807	806	806	1.3%
Midsized Cars	832	852	874	877	876	876	875	874	874	873	873	872	872	1.1%
Large Cars	815	839	865	869	869	868	868	867	867	866	866	865	865	--
Two Seater Cars	695	710	729	731	730	729	729	728	728	728	728	728	728	1.0%
Small Pickup	0	0	812	817	822	826	828	832	833	833	833	832	831	--
Large Pickup	917	928	940	947	951	956	961	964	965	964	963	962	961	--
Small Van	768	775	804	804	804	804	804	805	805	805	805	805	805	--
Large Van	862	871	904	908	912	916	920	924	925	925	925	925	925	--
Small Utility	746	754	782	785	789	794	797	802	803	803	802	802	802	--
Large Utility	800	807	823	826	829	833	837	841	843	842	842	842	842	1.1%
Fuel Cell Methanol														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Fuel Cell Hydrogen														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	592	605	626	628	627	627	626	626	625	625	624	624	623	1.2%
Compact Cars	610	626	646	649	648	648	647	647	646	646	646	645	645	--
Midsized Cars	665	682	699	701	701	700	700	700	699	699	698	698	697	--
Large Cars	652	671	692	696	695	695	694	694	693	693	693	692	692	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	615	620	643	643	643	643	644	644	644	644	644	644	644	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	597	604	626	628	631	635	638	641	642	642	642	642	642	1.3%
Large Utility	0	0	0	0	0	0	0	673	674	674	674	674	674	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cell Gasoline														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	652	671	692	696	695	695	694	694	693	693	693	692	692	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	615	620	643	643	643	643	644	644	644	644	644	644	644	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	597	604	626	628	631	635	638	641	642	642	642	642	642	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 62. Electric Power Projections for EMM Region
 East Central Area Reliability Coordinaiton Agreement - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	84.03	83.80	84.38	83.75	83.95	84.69	85.32	85.32	85.32	86.04	84.78	84.69	84.69
Oil and Natural Gas Steam 2/	3.51	3.51	3.46	3.46	3.46	3.46	3.42	1.23	1.20	1.20	1.20	1.20	1.20
Combined Cycle	11.45	11.45	11.45	12.13	12.13	12.13	12.13	12.67	12.67	12.67	12.67	12.67	12.67
Combustion Turbine/Diesel	21.08	21.01	21.02	21.02	21.02	21.02	21.02	17.66	17.66	17.66	17.66	17.66	17.66
Nuclear Power	7.81	7.81	7.82	7.82	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89
Pumped Storage/Other 3/	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.54	1.54	1.71	2.12	2.14	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	133.07	132.78	133.50	133.96	134.25	135.03	135.62	130.61	130.58	131.30	130.04	129.95	129.95
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.28	1.01	1.76	1.76	1.76	2.51	2.51	2.51	2.51
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.68	0.68	0.68	0.68	1.22	1.22	1.22	1.22	1.22	1.22
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.21	0.62	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.18	1.27	1.57	2.30	3.05	3.59	3.59	4.34	4.34	4.34	4.34
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Cumulative Total Additions	0.00	0.00	0.18	1.27	1.57	2.35	3.10	3.64	3.64	4.39	4.39	4.39	4.39

Table 62. Electric Power Projections for EMM Region
East Central Area Reliability Coordination Agreement - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.04	0.12	0.12	0.24	0.24	0.24	0.27	1.53	1.62	1.62
Oil and Natural Gas Steam 3/	0.00	0.00	0.06	0.06	0.06	0.06	0.10	2.28	2.32	2.32	2.32	2.32	2.32
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	3.37	3.37	3.37
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.06	0.10	0.18	0.18	0.34	5.89	5.92	5.95	7.21	7.30	7.30
End-Use Sectors 8/													
Coal	0.70	0.68	0.68	0.68	0.68	0.68	0.80	0.86	0.68	0.68	0.76	0.90	1.38
Petroleum	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.17	0.17	0.17	0.18	0.24	0.24	0.25	0.26	0.26	0.27	0.28	0.28	0.29
Other Gaseous Fuels	1.05	0.91	0.90	0.90	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Renewable Sources 4/	0.30	0.30	0.31	0.31	0.31	0.32	0.33	0.33	0.57	0.65	0.67	0.74	0.60
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	2.29	2.13	2.13	2.14	2.12	2.14	2.26	2.34	2.40	2.49	2.60	2.82	3.17
Electricity Demand (billion kilowatthours)													
Residential	182.69	176.00	184.80	185.55	187.21	189.15	190.28	191.95	187.28	187.28	187.79	189.16	189.77
Commercial/Other	152.90	152.84	159.25	160.12	162.18	163.75	166.16	168.70	171.72	175.16	178.45	181.62	184.49
Industrial	207.22	202.26	204.30	205.31	206.62	210.93	214.44	215.79	215.75	215.66	216.35	216.95	216.94
Transportation	0.83	0.84	0.87	0.89	0.89	0.89	0.90	0.91	0.92	0.92	0.93	0.94	0.95
Total Sales	543.64	531.95	549.22	551.87	556.90	564.72	571.78	577.35	575.67	579.02	583.52	588.66	592.15
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	1.77	1.26	0.24	0.06	0.00	0.03	0.01	0.01	0.06	0.11	0.06	0.05	0.55
Gross International Exports	5.09	2.83	2.62	2.26	2.34	2.37	2.30	2.23	2.17	2.10	2.04	1.98	1.92
Gross Interregional Electricity Imports	11.01	6.42	5.75	5.71	12.09	14.28	16.59	19.78	19.20	17.77	20.80	20.46	17.83
Gross Interregional Electricity Exports	54.51	40.34	36.30	31.86	42.96	43.22	47.33	54.44	62.00	65.57	64.37	64.14	63.23
Purchases from Combined Heat and Power 8/	1.05	0.97	0.85	0.86	0.87	0.89	1.17	1.34	1.48	1.68	1.91	2.45	3.29
Electric Power Sector Generation for Custome	608.62	596.46	619.51	616.99	627.03	632.44	640.46	649.05	654.15	661.39	660.66	665.61	669.62
Total Net Energy for Load	562.84	561.94	587.43	589.50	594.69	602.05	608.59	613.52	610.72	613.28	617.02	622.45	626.14
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	515.04	511.48	516.34	510.67	515.57	523.08	531.02	539.22	544.72	551.86	550.27	554.85	558.69
Petroleum	6.40	5.33	3.26	3.19	3.35	3.32	3.60	3.69	3.72	3.40	3.13	3.14	3.13
Natural Gas	21.92	18.19	35.35	38.00	42.32	40.08	39.96	40.16	39.73	40.20	41.31	41.63	41.90
Nuclear	61.65	58.05	61.23	61.08	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02
Pumped Storage/Other 9/	-1.13	-1.41	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
Renewable Sources 10/	6.20	6.22	5.76	6.48	7.20	7.36	7.28	7.38	7.38	7.34	7.35	7.39	7.31
Total Generation	610.08	597.85	620.94	618.42	628.46	633.87	641.88	650.48	655.58	662.82	662.09	667.04	671.05
Sales to Customers	608.62	596.46	619.51	616.99	627.03	632.44	640.46	649.05	654.15	661.39	660.66	665.61	669.62
Generation for Own Use	1.47	1.40	1.42	1.42	1.42	1.43	1.43	1.42	1.43	1.43	1.43	1.43	1.43
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 62. Electric Power Projections for EMM Region
East Central Area Reliability Coordinaiton Agreement - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	3.80	3.80	3.80	3.80	3.80	3.80	4.67	5.17	3.80	3.80	4.40	5.46	9.00
Petroleum	0.13	0.12	0.12	0.12	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Natural Gas	0.85	0.78	0.82	0.85	1.28	1.32	1.37	1.42	1.47	1.52	1.58	1.64	1.70
Other Gaseous Fuels	3.54	3.62	3.65	3.65	3.28	3.28	3.27	3.29	3.28	3.28	3.29	3.29	3.28
Renewable Sources 10/	1.80	1.70	1.70	1.71	1.72	1.76	1.78	1.80	3.59	4.20	4.34	4.84	3.81
Other	0.99	0.58	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Total	11.10	10.60	10.54	10.58	10.67	10.76	11.69	12.27	12.74	13.39	14.20	15.82	18.38
Sales to Utilities	1.05	0.97	0.85	0.86	0.87	0.89	1.17	1.34	1.48	1.68	1.91	2.45	3.29
Generation for Own Use	10.05	9.63	9.69	9.72	9.80	9.87	10.52	10.93	11.26	11.72	12.29	13.37	15.09
Total Electricity Generation	621.18	608.46	631.48	629.00	639.13	644.62	653.57	662.75	668.31	676.21	676.29	682.86	689.43
End-Use Prices (2006 cents per kilowatthour)													
Residential	7.9	8.4	9.5	9.5	9.8	9.7	9.6	9.5	9.3	9.2	9.2	9.3	9.3
Commercial	7.2	7.5	8.9	9.0	9.2	9.1	8.9	8.7	8.4	8.2	8.2	8.2	8.3
Industrial	4.7	5.0	6.1	6.4	6.6	6.4	6.2	6.0	5.8	5.6	5.6	5.6	5.7
Transportation	8.0	8.0	7.7	8.1	8.4	8.3	8.1	8.0	7.7	7.6	7.6	7.6	7.6
All Sectors Average	6.5	6.9	8.0	8.2	8.5	8.3	8.1	8.0	7.7	7.6	7.6	7.6	7.6
Prices by Service Category (2006 cents per kilowatthour)													
Generation	4.4	4.7	5.9	6.1	6.3	6.1	5.9	5.7	5.5	5.3	5.3	5.3	5.4
Transmission	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Distribution	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Fuel Consumption (quadrillion Btu) 11/													
Coal	5.25	5.22	5.10	5.05	5.09	5.17	5.25	5.34	5.39	5.46	5.44	5.49	5.53
Natural Gas	0.23	0.19	0.30	0.32	0.36	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.35
Oil	0.07	0.06	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03
Total	5.54	5.47	5.44	5.40	5.48	5.54	5.62	5.70	5.76	5.82	5.82	5.86	5.90
Fuel Prices (dollars per million Btu)													
Coal	1.78	1.74	1.75	1.79	1.85	1.85	1.83	1.79	1.77	1.74	1.72	1.71	1.70
Natural Gas	7.30	6.61	6.43	6.53	6.60	6.23	5.90	5.68	5.41	5.23	5.11	5.07	5.12
Distillate Fuel Oil	13.03	13.75	14.92	17.41	14.25	13.59	12.84	12.05	11.35	11.07	10.50	10.07	10.09
Residual Fuel Oil	7.76	7.83	8.30	10.05	10.89	10.13	9.59	6.98	4.29	1.60	-1.04	-3.69	-3.56
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.89	1.89
Emissions 12/													
Total Carbon (million tons)	152.94	148.19	151.61	150.41	152.37	154.07	156.45	158.76	160.34	162.29	161.87	163.24	164.38
Carbon Dioxide (million tons)	560.79	543.38	555.89	551.51	558.69	564.94	573.66	582.12	587.92	595.05	593.51	598.55	602.72
Sulfur Dioxide (million tons)	3.10	2.94	2.91	2.51	2.10	1.71	1.42	1.30	1.22	1.25	1.22	1.17	1.16
Nitrogen Oxide (million tons)	0.88	0.85	0.87	0.85	0.43	0.40	0.40	0.40	0.40	0.40	0.32	0.32	0.33
Mercury (tons)	11.94	12.32	12.41	11.63	10.51	7.98	7.94	7.48	7.41	5.66	5.19	4.78	4.67

Table 62. Electric Power Projections for EMM Region
 East Central Area Reliability Coordinaiton Agreement - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	0.0%
Oil and Natural Gas Steam 2/	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	-4.4%
Combined Cycle	12.67	12.67	12.67	12.67	12.89	14.12	15.48	16.02	16.09	16.29	16.43	16.61	17.66	1.8%
Combustion Turbine/Diesel	17.66	17.66	17.66	17.66	17.66	17.66	17.66	18.30	19.58	20.72	21.89	22.96	23.13	0.4%
Nuclear Power	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	0.0%
Pumped Storage/Other 3/	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.5%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.07	0.09	--
Total Capacity	129.95	129.95	129.95	129.95	130.16	131.39	132.75	133.94	135.29	136.65	137.99	139.26	140.50	0.2%
Cumulative Planned Additions 6/														
Coal	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	--
Combustion Turbine/Diesel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	--
Cumulative Unplanned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.21	1.44	2.80	3.35	3.42	3.62	3.76	3.94	4.99	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	1.92	3.06	4.24	5.30	5.48	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.07	0.09	--
Total Unplanned Additions	0.05	0.05	0.05	0.05	0.26	1.49	2.85	4.04	5.39	6.75	8.09	9.36	10.60	--
Cumulative Total Additions	4.39	4.39	4.39	4.39	4.60	5.84	7.20	8.39	9.74	11.10	12.44	13.70	14.94	--

Table 62. Electric Power Projections for EMM Region
East Central Area Reliability Coordinaiton Agreement - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	--
Oil and Natural Gas Steam 3/	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	--
End-Use Sectors 8/														
Coal	1.25	0.85	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.0%
Petroleum	0.06	0.06	0.06	0.12	0.12	0.12	0.10	0.10	0.10	0.11	0.11	0.11	0.11	3.0%
Natural Gas	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.42	0.43	0.45	4.2%
Other Gaseous Fuels	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	-0.5%
Renewable Sources 4/	0.77	1.19	1.57	2.00	2.49	2.86	3.33	3.86	4.18	4.20	4.22	4.24	4.26	11.6%
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Total	3.21	3.24	3.46	3.97	4.47	4.85	5.31	5.85	6.18	6.22	6.25	6.29	6.33	4.6%
Electricity Demand (billion kilowatthours)														
Residential	190.86	191.99	192.79	193.32	194.78	196.37	198.61	200.05	202.14	204.26	206.77	208.25	210.22	0.7%
Commercial/Other	187.21	190.00	192.79	195.75	198.59	201.36	204.15	206.96	209.82	212.71	215.49	218.26	220.89	1.5%
Industrial	216.57	215.92	215.23	214.77	213.57	212.70	211.89	211.17	210.71	210.07	208.92	207.73	206.80	0.1%
Transportation	0.96	0.97	0.98	0.99	0.99	1.02	1.02	1.03	1.04	1.05	1.06	1.06	1.07	1.0%
Total Sales	595.59	598.88	601.79	604.83	607.93	611.45	615.68	619.22	623.70	628.08	632.23	635.31	638.99	0.8%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.14	0.20	0.05	0.32	0.35	0.44	0.18	0.18	0.37	0.18	0.32	2.61	2.87	3.5%
Gross International Exports	1.86	1.81	1.75	1.70	1.64	1.59	1.54	1.49	1.49	1.49	1.49	1.49	1.49	-2.6%
Gross Interregional Electricity Imports	14.05	13.47	10.66	11.42	12.51	11.00	9.25	12.24	9.71	9.88	9.93	13.42	11.41	2.4%
Gross Interregional Electricity Exports	60.35	55.71	52.27	51.73	53.68	50.63	46.82	48.52	43.60	40.30	37.04	38.31	36.41	-0.4%
Purchases from Combined Heat and Power 8/	3.37	3.50	4.07	5.43	7.39	8.21	9.28	10.48	11.19	11.20	11.21	11.23	11.24	10.7%
Electric Power Sector Generation for Custome	674.45	673.61	675.58	675.80	677.91	679.12	680.68	681.89	683.35	684.67	685.59	684.33	688.04	0.6%
Total Net Energy for Load	629.79	633.26	636.34	639.55	642.84	646.55	651.03	654.78	659.52	664.14	668.52	671.79	675.67	0.8%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	562.26	566.11	568.02	567.58	567.66	568.09	567.62	568.46	568.31	568.39	568.19	566.27	566.26	0.4%
Petroleum	3.16	3.16	3.40	3.43	3.42	3.42	3.41	3.41	3.51	3.60	3.61	3.68	3.68	-1.5%
Natural Gas	43.01	38.49	38.52	38.95	40.90	41.79	43.83	44.09	45.60	46.85	47.99	48.58	52.48	4.5%
Nuclear	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	0.2%
Pumped Storage/Other 9/	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.4%
Renewable Sources 10/	7.43	7.26	7.05	7.26	7.34	7.24	7.24	7.33	7.34	7.25	7.21	7.21	7.03	0.5%
Total Generation	675.89	675.05	677.02	677.24	679.35	680.56	682.12	683.33	684.78	686.10	687.03	685.77	689.47	0.6%
Sales to Customers	674.45	673.61	675.58	675.80	677.91	679.12	680.68	681.89	683.35	684.67	685.59	684.33	688.04	0.6%
Generation for Own Use	1.43	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	0.1%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	--

Table 62. Electric Power Projections for EMM Region
East Central Area Reliability Coordinaiton Agreement - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	8.05	5.08	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	0.0%
Petroleum	0.18	0.18	0.18	0.24	0.43	0.48	0.53	0.53	0.53	0.58	0.58	0.58	0.58	6.8%
Natural Gas	1.77	1.84	1.92	2.01	2.12	2.21	2.29	2.37	2.45	2.55	2.64	2.74	2.85	5.5%
Other Gaseous Fuels	3.28	3.28	3.28	3.28	3.28	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	-0.4%
Renewable Sources 10/	4.99	8.11	10.92	14.13	17.93	20.62	24.06	27.93	30.22	30.26	30.30	30.34	30.38	12.8%
Other	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	-1.0%
Total	18.72	18.93	20.54	23.90	28.01	30.84	34.43	38.38	40.75	40.93	41.06	41.20	41.36	5.8%
Sales to Utilities	3.37	3.50	4.07	5.43	7.39	8.21	9.28	10.48	11.19	11.20	11.21	11.23	11.24	10.7%
Generation for Own Use	15.35	15.43	16.47	18.47	20.62	22.62	25.15	27.90	29.56	29.73	29.85	29.98	30.12	4.9%
Total Electricity Generation	694.60	693.98	697.55	701.14	707.36	711.39	716.55	721.70	725.53	727.05	728.11	727.00	730.88	0.8%
End-Use Prices (2006 cents per kilowatthour)														
Residential	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.4	9.4	9.4	0.5%
Commercial	8.4	8.4	8.4	8.4	8.5	8.6	8.6	8.6	8.5	8.5	8.6	8.6	8.7	0.6%
Industrial	5.7	5.7	5.7	5.6	5.7	5.7	5.7	5.7	5.6	5.6	5.7	5.7	5.8	0.6%
Transportation	7.6	7.6	7.6	7.5	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.6	-0.2%
All Sectors Average	7.7	7.7	7.8	7.7	7.8	7.8	7.8	7.9	7.8	7.8	7.9	7.9	8.0	0.6%
Prices by Service Category (2006 cents per kilowatthour)														
Generation	5.4	5.5	5.5	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.6	5.6	5.7	0.7%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0%
Distribution	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.2%
Fuel Consumption (quadrillion Btu) 11/														
Coal	5.56	5.60	5.62	5.61	5.61	5.62	5.61	5.62	5.62	5.62	5.62	5.60	5.60	0.3%
Natural Gas	0.36	0.32	0.32	0.32	0.34	0.33	0.35	0.35	0.36	0.37	0.37	0.38	0.40	3.2%
Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	-2.0%
Total	5.95	5.95	5.97	5.97	5.98	5.99	5.99	6.00	6.01	6.02	6.03	6.01	6.04	0.4%
Fuel Prices (dollars per million Btu)														
Coal	1.68	1.68	1.68	1.68	1.69	1.70	1.70	1.71	1.71	1.72	1.73	1.73	1.75	0.0%
Natural Gas	5.19	5.24	5.13	5.02	5.17	5.28	5.39	5.55	5.68	5.79	6.00	6.16	6.30	-0.2%
Distillate Fuel Oil	10.23	10.38	10.49	10.60	10.74	10.93	11.16	11.38	11.64	11.84	12.05	12.30	12.47	-0.4%
Residual Fuel Oil	-2.91	-2.15	-1.51	-0.98	-0.22	0.74	1.59	2.61	3.58	2.78	3.77	4.87	5.60	-1.4%
Biomass	1.97	2.02	1.98	1.98	1.98	1.97	1.95	1.97	1.97	1.96	1.97	1.97	1.78	-0.2%
Emissions 12/														
Total Carbon (million tons)	165.57	166.07	166.60	166.57	166.77	166.94	166.91	167.20	167.32	167.49	167.58	166.98	167.26	0.5%
Carbon Dioxide (million tons)	607.10	608.91	610.88	610.77	611.49	612.11	612.00	613.08	613.49	614.13	614.47	612.26	613.28	0.5%
Sulfur Dioxide (million tons)	1.12	1.11	1.08	1.02	1.04	1.02	1.03	1.03	1.05	1.04	1.05	1.03	1.05	-4.2%
Nitrogen Oxide (million tons)	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.28	-4.5%
Mercury (tons)	4.52	4.47	4.06	4.08	3.85	3.63	3.60	3.54	3.18	2.93	2.95	2.83	2.67	-6.2%

Table 62. Electric Power Projections for EMM Region
East Central Area Reliability Coordinaiton Agreement - 01

- 1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.
- 2/ Includes oil-, gas-, and dual-fired capacity.
- 3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
- 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 5/ Primarily peak-load capacity fueled by natural gas.
- 6/ Cumulative additions after December 31, 2006.
- 7/ Generation to meet system load by source.
- 8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
- 9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.
- 10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
- 12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
- O&M = Operation and maintenance.
EMM = Electricity market module.
- - = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding.
- Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	15.27	15.27	15.27	15.27	15.27	16.02	16.91	18.37	18.37	18.37	18.37	18.37	18.70
Oil and Natural Gas Steam 2/	28.13	27.51	26.70	26.31	26.31	26.31	26.31	15.52	15.52	15.52	15.52	15.52	15.52
Combined Cycle	24.09	24.71	25.24	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65
Combustion Turbine/Diesel	4.65	4.56	4.50	6.94	7.20	7.23	7.34	7.43	7.78	7.98	8.15	8.49	8.78
Nuclear Power	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.93	4.93	5.07	5.07	5.07	5.23
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	2.39	3.16	4.16	4.90	4.90	4.90	4.90	4.90	4.94	4.96	4.96	5.00	5.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.13	0.18	0.23	0.27	0.31	0.36	0.40	0.44
Total Capacity	79.39	80.06	80.72	83.92	84.27	85.11	86.16	77.02	77.44	77.85	78.07	78.50	79.31
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.53	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	1.05	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.80
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.53	2.68	2.68	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.89	2.34	2.34	2.34	2.34	2.34	2.68
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	2.44	2.71	2.74	2.85	2.94	3.28	3.48	3.65	4.00	4.29
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.09	0.09
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.13	0.18	0.23	0.27	0.31	0.36	0.40	0.44
Total Unplanned Additions	0.00	0.00	0.00	2.44	2.78	2.87	3.92	5.51	5.93	6.19	6.41	6.84	7.50
Cumulative Total Additions	0.00	0.00	1.53	5.12	5.47	6.31	7.36	8.94	9.37	9.63	9.85	10.28	10.94

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.81	1.20	1.20	1.20	1.20	11.99	11.99	11.99	11.99	11.99	11.99
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.87	1.26	1.26	1.26	1.26	12.05	12.05	12.05	12.05	12.05	12.05
End-Use Sectors 8/													
Coal	0.46	0.38	0.38	0.38	0.35	0.35	0.43	0.57	0.45	0.35	0.35	0.45	0.36
Petroleum	0.08	0.07	0.10	0.10	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Natural Gas	4.92	4.65	4.68	4.70	4.64	4.67	4.69	4.72	4.75	4.77	4.80	4.83	4.86
Other Gaseous Fuels	0.14	0.12	0.14	0.14	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Renewable Sources 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.33	0.67	0.74	0.72	0.89
Other	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Total	5.75	5.37	5.43	5.46	5.49	5.51	5.62	5.78	6.01	6.28	6.38	6.49	6.59
Electricity Demand (billion kilowatthours)													
Residential	111.97	114.97	110.89	113.09	115.10	117.23	118.84	120.66	119.16	120.06	121.22	122.81	123.94
Commercial/Other	90.37	93.61	93.55	95.89	96.03	97.60	99.70	101.70	103.76	106.12	108.37	110.55	112.59
Industrial	82.41	82.83	82.19	79.11	80.67	83.02	84.91	85.73	86.44	86.54	86.76	86.69	86.57
Transportation	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09
Total Sales	284.82	291.49	286.70	288.16	291.87	297.92	303.53	308.17	309.45	312.81	316.44	320.14	323.20
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Gross International Exports	0.37	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Gross Interregional Electricity Imports	3.82	4.17	1.46	1.75	3.29	3.78	3.44	1.66	2.51	2.18	1.86	2.16	1.88
Gross Interregional Electricity Exports	1.52	1.90	2.77	2.94	1.53	1.53	1.53	1.51	1.36	1.21	1.05	0.90	0.76
Purchases from Combined Heat and Power 8/	4.57	4.61	5.73	5.76	6.04	6.08	6.31	6.67	7.19	7.80	8.01	8.23	8.44
Electric Power Sector Generation for Custome	285.43	291.50	301.20	302.23	302.85	308.27	313.85	319.67	319.00	321.61	324.89	328.13	331.26
Total Net Energy for Load	292.03	297.92	305.15	306.33	310.18	316.14	321.60	326.02	326.88	329.92	333.24	337.15	340.36
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	115.26	113.22	110.63	109.45	109.50	112.39	119.75	130.23	131.43	131.95	130.52	130.84	133.24
Petroleum	1.41	1.68	0.65	0.63	0.70	0.67	0.73	0.93	0.95	0.96	1.40	1.45	1.50
Natural Gas	131.04	133.81	145.83	146.14	146.11	148.66	146.81	141.63	138.76	138.93	141.99	144.89	144.28
Nuclear	38.23	41.26	38.75	38.67	38.48	38.48	38.48	38.81	38.81	40.01	40.01	40.01	41.22
Pumped Storage/Other 9/	1.43	1.84	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 10/	5.07	6.42	10.75	12.74	13.46	13.48	13.48	13.48	14.46	15.17	16.38	16.35	16.42
Total Generation	292.44	298.24	306.67	307.69	308.32	313.74	319.31	325.13	324.66	327.08	330.36	333.60	336.73
Sales to Customers	285.43	291.50	301.20	302.23	302.85	308.27	313.85	319.67	319.00	321.61	324.89	328.13	331.26
Generation for Own Use	7.01	6.73	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.06	0.08	0.10	0.12	0.14	0.16	0.17	0.19

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	2.61	2.76	2.77	2.77	2.49	2.49	3.06	4.10	3.20	2.49	2.49	3.21	2.52
Petroleum	0.16	0.14	0.36	0.36	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Natural Gas	24.82	25.15	25.21	25.37	25.59	25.78	25.98	26.19	26.40	26.61	26.82	27.04	27.26
Other Gaseous Fuels	2.57	2.05	1.93	1.93	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
Renewable Sources 10/	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	2.53	5.06	5.60	5.42	6.66
Other	0.44	0.93	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Total	30.70	31.15	31.32	31.48	32.05	32.24	33.01	34.26	35.98	38.00	38.76	39.52	40.29
Sales to Utilities	4.57	4.61	5.73	5.76	6.04	6.08	6.31	6.67	7.19	7.80	8.01	8.23	8.44
Generation for Own Use	26.12	26.54	25.59	25.71	26.01	26.16	26.71	27.58	28.79	30.20	30.74	31.29	31.84
Total Electricity Generation	323.14	329.39	337.99	339.17	340.40	346.04	352.41	359.49	360.56	365.22	369.27	373.29	377.21
End-Use Prices (2006 cents per kilowatthour)													
Residential	11.6	13.3	12.0	12.4	12.9	12.6	12.3	12.6	12.6	12.5	12.6	12.8	12.9
Commercial	9.3	10.1	9.2	9.5	9.9	9.3	8.9	9.1	9.0	8.9	9.0	9.2	9.3
Industrial	7.7	8.1	7.8	8.1	8.5	7.9	7.4	7.4	7.3	7.1	7.2	7.3	7.3
Transportation	9.6	8.9	9.5	10.0	10.6	10.4	10.2	10.5	10.4	10.3	10.4	10.6	10.6
All Sectors Average	9.7	10.7	9.9	10.3	10.7	10.2	9.8	10.0	9.9	9.8	9.9	10.0	10.1
Prices by Service Category (2006 cents per kilowatthour)													
Generation	6.6	7.6	6.7	7.1	7.5	7.0	6.6	6.8	6.7	6.6	6.7	6.9	7.0
Transmission	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9
Distribution	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Fuel Consumption (quadrillion Btu) 11/													
Coal	1.24	1.23	1.17	1.16	1.16	1.19	1.25	1.35	1.36	1.36	1.35	1.36	1.38
Natural Gas	1.19	1.21	1.27	1.27	1.26	1.26	1.23	1.19	1.17	1.18	1.20	1.22	1.22
Oil	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Total	2.44	2.46	2.45	2.43	2.42	2.45	2.50	2.55	2.54	2.55	2.57	2.59	2.61
Fuel Prices (dollars per million Btu)													
Coal	1.27	1.36	1.39	1.41	1.44	1.48	1.49	1.50	1.49	1.50	1.51	1.49	1.50
Natural Gas	8.32	6.49	6.73	7.12	7.32	6.86	6.52	6.33	6.14	5.95	5.81	5.77	5.84
Distillate Fuel Oil	12.31	13.01	14.84	17.09	13.47	12.81	12.11	11.41	10.72	10.44	9.87	9.44	9.45
Residual Fuel Oil	7.95	7.85	8.31	10.06	11.00	10.18	9.64	8.23	7.84	7.68	7.22	6.92	6.91
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.89	1.90
Emissions 12/													
Total Carbon (million tons)	56.05	55.21	55.09	54.58	54.47	55.23	56.81	59.03	58.98	59.11	59.36	59.82	60.42
Carbon Dioxide (million tons)	205.50	202.43	202.00	200.11	199.73	202.49	208.31	216.43	216.24	216.74	217.65	219.34	221.54
Sulfur Dioxide (million tons)	0.33	0.26	0.34	0.34	0.35	0.35	0.29	0.29	0.29	0.28	0.16	0.16	0.16
Nitrogen Oxide (million tons)	0.13	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Mercury (tons)	3.73	3.38	3.52	3.43	3.55	2.94	2.93	2.89	3.08	2.63	1.24	1.07	1.04

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	20.94	20.97	21.98	21.98	22.21	23.17	24.40	25.22	26.11	26.92	27.66	29.01	30.94	3.0%
Oil and Natural Gas Steam 2/	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	-2.4%
Combined Cycle	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	0.2%
Combustion Turbine/Diesel	8.78	8.78	8.95	9.23	9.74	9.88	10.02	10.09	10.17	10.46	10.65	11.07	11.07	3.8%
Nuclear Power	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	0.3%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	5.01	5.01	5.08	5.08	5.08	5.25	5.43	5.51	5.64	5.70	5.76	5.98	5.98	2.7%
Distributed Generation 5/	0.49	0.53	0.58	0.65	0.78	0.96	1.07	1.21	1.26	1.31	1.36	1.41	1.46	--
Total Capacity	81.61	81.69	82.98	83.33	84.20	85.65	87.30	88.41	89.56	90.78	91.83	93.85	95.84	0.8%
Cumulative Planned Additions 6/														
Coal	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.80	1.80	1.80	1.80	1.81	1.81	1.81	1.81	1.81	1.82	1.82	1.82	1.82	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	3.45	3.45	3.45	3.45	3.45	3.46	3.46	3.46	3.46	3.46	3.47	3.47	3.47	--
Cumulative Unplanned Additions 6/														
Coal	4.91	4.95	5.96	5.96	6.19	7.15	8.38	9.19	10.09	10.90	11.64	12.98	14.92	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	4.29	4.29	4.46	4.73	5.24	5.39	5.52	5.60	5.67	5.96	6.16	6.57	6.57	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.09	0.09	0.16	0.16	0.16	0.33	0.50	0.58	0.72	0.77	0.83	1.05	1.05	--
Distributed Generation 5/	0.49	0.53	0.58	0.65	0.78	0.96	1.07	1.21	1.26	1.31	1.36	1.41	1.46	--
Total Unplanned Additions	9.79	9.87	11.16	11.50	12.38	13.82	15.47	16.58	17.73	18.94	19.99	22.01	24.00	--
Cumulative Total Additions	13.23	13.31	14.61	14.95	15.83	17.27	18.93	20.04	21.19	22.41	23.45	25.48	27.47	--

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	--
End-Use Sectors 8/														
Coal	0.35	0.35	0.35	1.38	1.38	0.86	0.35	0.35	0.68	0.66	0.61	0.58	0.68	2.5%
Petroleum	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	3.6%
Natural Gas	4.89	4.92	4.95	4.98	5.01	5.04	5.07	5.09	5.12	5.15	5.18	5.21	5.24	0.5%
Other Gaseous Fuels	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.7%
Renewable Sources 4/	0.94	0.99	1.04	0.01	0.01	0.54	1.05	1.05	0.73	0.75	0.81	0.84	0.76	22.4%
Other	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Total	6.68	6.76	6.83	6.86	6.89	6.93	6.96	6.99	7.02	7.05	7.09	7.12	7.16	1.2%
Electricity Demand (billion kilowatthours)														
Residential	125.57	126.95	128.19	129.18	130.66	132.26	134.22	135.70	137.51	139.39	141.37	142.84	144.75	1.0%
Commercial/Other	114.99	117.17	119.45	121.74	123.95	126.28	128.66	131.07	133.39	135.82	138.10	140.58	143.21	1.8%
Industrial	86.62	86.32	86.13	85.95	86.06	85.95	86.04	86.22	86.55	86.76	86.88	86.91	87.24	0.2%
Transportation	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	1.9%
Total Sales	327.27	330.54	333.86	336.97	340.77	344.59	349.03	353.10	357.56	362.08	366.46	370.44	375.31	1.1%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.1%
Gross International Exports	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.0%
Gross Interregional Electricity Imports	1.50	1.85	1.34	2.15	3.76	4.90	4.99	4.72	4.58	4.58	4.34	4.01	3.54	-0.7%
Gross Interregional Electricity Exports	0.61	0.47	0.32	0.17	0.02	0.01	0.00	0.01	0.02	0.02	0.02	0.02	0.02	-17.0%
Purchases from Combined Heat and Power 8/	8.61	8.77	8.92	8.96	9.01	9.04	9.08	9.12	9.15	9.19	9.22	9.26	9.30	3.0%
Electric Power Sector Generation for Custome	335.62	338.41	342.13	344.38	346.59	349.42	353.96	358.49	363.29	368.01	372.83	377.32	382.88	1.1%
Total Net Energy for Load	344.65	348.09	351.59	354.86	358.86	362.89	367.56	371.84	376.54	381.30	385.90	390.10	395.23	1.2%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	148.56	149.36	156.98	156.83	158.36	165.89	175.44	181.48	188.39	194.34	199.72	210.39	224.56	2.9%
Petroleum	1.66	1.67	1.75	1.75	1.77	1.84	1.93	1.99	2.06	2.12	2.17	2.27	2.27	1.3%
Natural Gas	132.48	134.11	129.73	131.99	132.46	127.49	122.18	120.40	118.00	116.49	115.65	109.17	100.34	-1.2%
Nuclear	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	0.0%
Pumped Storage/Other 9/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-13.4%
Renewable Sources 10/	17.10	17.45	17.85	18.00	18.18	18.38	18.60	18.80	19.02	19.25	19.46	19.66	19.88	4.8%
Total Generation	341.09	343.88	347.59	349.85	352.06	354.88	359.43	363.95	368.76	373.48	378.29	382.78	388.34	1.1%
Sales to Customers	335.62	338.41	342.13	344.38	346.59	349.42	353.96	358.49	363.29	368.01	372.83	377.32	382.88	1.1%
Generation for Own Use	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	-0.9%
Distributed Generation 5/	0.22	0.23	0.26	0.28	0.34	0.42	0.47	0.53	0.55	0.57	0.59	0.62	0.64	--

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	2.49	2.49	2.49	10.14	10.14	6.23	2.49	2.49	4.91	4.77	4.40	4.21	4.90	2.4%
Petroleum	0.71	0.72	0.74	0.78	0.78	0.78	0.78	0.78	0.74	0.78	0.74	0.74	0.74	7.1%
Natural Gas	27.48	27.72	27.96	28.19	28.42	28.63	28.84	29.04	29.24	29.46	29.66	29.88	30.10	0.8%
Other Gaseous Fuels	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	0.3%
Renewable Sources 10/	7.07	7.45	7.78	0.13	0.13	4.05	7.80	7.81	5.39	5.54	5.93	6.13	5.45	17.3%
Other	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.0%
Total	40.88	41.51	42.11	42.39	42.62	42.84	43.05	43.26	43.43	43.69	43.87	44.10	44.33	1.5%
Sales to Utilities	8.61	8.77	8.92	8.96	9.01	9.04	9.08	9.12	9.15	9.19	9.22	9.26	9.30	3.0%
Generation for Own Use	32.28	32.74	33.19	33.43	33.61	33.79	33.97	34.15	34.28	34.51	34.65	34.84	35.03	1.2%
Total Electricity Generation	382.19	385.63	389.95	392.52	395.02	398.14	402.95	407.74	412.74	417.75	422.76	427.50	433.31	1.1%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	12.4	12.7	12.6	12.7	12.8	12.7	12.7	12.7	12.8	12.8	13.1	12.9	12.8	-0.2%
Commercial	8.8	9.2	9.0	9.1	9.3	9.2	9.2	9.2	9.3	9.3	9.6	9.4	9.3	-0.3%
Industrial	7.0	7.3	7.2	7.2	7.4	7.4	7.4	7.5	7.5	7.6	7.8	7.8	7.7	-0.2%
Transportation	10.3	10.6	10.5	10.6	10.7	10.4	10.4	10.5	10.6	10.7	11.0	10.9	10.8	0.8%
All Sectors Average	9.7	10.1	9.9	10.0	10.1	10.1	10.1	10.1	10.2	10.2	10.5	10.4	10.3	-0.2%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	6.6	6.9	6.8	6.9	7.0	7.0	7.0	7.1	7.2	7.2	7.5	7.4	7.3	-0.2%
Transmission	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8%
Distribution	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	-0.5%
Fuel Consumption (quadrillion Btu) 11/														
Coal	1.52	1.53	1.59	1.59	1.61	1.67	1.76	1.81	1.87	1.92	1.97	2.06	2.17	2.4%
Natural Gas	1.13	1.14	1.11	1.12	1.13	1.09	1.05	1.04	1.02	1.01	1.00	0.95	0.89	-1.3%
Oil	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.6%
Total	2.66	2.68	2.72	2.73	2.75	2.78	2.83	2.87	2.91	2.95	2.99	3.04	3.08	0.9%
Fuel Prices (dollars per million Btu)														
Coal	1.53	1.54	1.56	1.56	1.57	1.58	1.60	1.61	1.63	1.64	1.66	1.67	1.69	0.9%
Natural Gas	5.91	5.99	5.97	5.91	6.04	6.13	6.25	6.36	6.42	6.49	6.74	6.86	7.00	0.3%
Distillate Fuel Oil	9.60	9.74	9.85	9.95	10.06	10.25	10.49	10.70	10.94	11.12	11.33	11.58	11.81	-0.4%
Residual Fuel Oil	7.04	7.32	7.54	7.67	7.75	7.95	8.14	8.31	8.49	8.52	8.70	8.78	8.97	0.6%
Biomass	1.92	2.02	1.94	1.94	1.95	1.93	1.88	1.90	1.88	1.89	1.89	1.82	1.72	-0.3%
Emissions 12/														
Total Carbon (million tons)	63.08	63.49	64.97	65.20	65.66	67.01	68.84	70.20	71.71	73.05	74.33	76.33	78.30	1.5%
Carbon Dioxide (million tons)	231.28	232.81	238.22	239.07	240.75	245.70	252.43	257.39	262.92	267.84	272.55	279.88	287.10	1.5%
Sulfur Dioxide (million tons)	0.13	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.14	0.13	-3.0%
Nitrogen Oxide (million tons)	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.6%
Mercury (tons)	0.80	0.81	0.79	0.83	0.80	0.73	0.76	0.78	0.79	0.79	0.80	0.78	0.80	-5.8%

Table 63. Electric Power Projections for EMM Region
Electric Reliability Council of Texas - 02

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	21.59	21.59	21.59	21.59	21.55	21.55	21.55	21.55	21.55	21.55	21.55	21.55	21.87
Oil and Natural Gas Steam 2/	7.63	7.63	7.63	7.63	7.63	7.63	7.63	6.75	6.75	6.75	6.75	6.75	6.75
Combined Cycle	12.08	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27
Combustion Turbine/Diesel	10.58	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Nuclear Power	13.27	13.27	13.29	13.32	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48
Pumped Storage/Other 3/	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	2.04	2.12	2.23	2.34	2.34	3.23	4.33	4.33	4.33	4.59	4.88	5.29	5.45
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.10	0.14
Total Capacity	68.67	69.89	70.02	70.16	70.27	71.16	72.26	71.38	71.38	71.66	71.98	72.43	72.95
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.15	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.89	1.99	1.99	1.99	2.25	2.54	2.95	3.11
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.10	0.14
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.89	1.99	1.99	1.99	2.27	2.59	3.04	3.57
Cumulative Total Additions	0.00	0.00	0.11	0.22	0.22	1.11	2.21	2.21	2.21	2.49	2.81	3.27	3.79

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88	0.88	0.88	0.88
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.04	0.05	0.05	0.93	0.93	0.93	0.93	0.93	0.93
End-Use Sectors 8/													
Coal	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Petroleum	0.10	0.12	0.12	0.12	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Natural Gas	0.31	0.31	0.34	0.36	0.62	0.65	0.67	0.70	0.72	0.75	0.79	0.83	0.88
Other Gaseous Fuels	0.40	0.30	0.11	0.11	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Renewable Sources 4/	0.13	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.20
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.20	1.11	0.95	0.99	1.45	1.49	1.52	1.54	1.57	1.60	1.64	1.69	1.74
Electricity Demand (billion kilowatthours)													
Residential	99.70	95.38	103.42	104.11	105.49	106.70	107.53	108.52	106.05	106.07	106.43	107.29	107.77
Commercial/Other	112.70	112.46	121.58	123.57	122.79	124.15	126.17	128.04	130.12	132.50	134.76	136.99	139.02
Industrial	57.96	55.34	54.74	55.12	55.00	56.41	57.44	57.83	57.99	57.81	57.72	57.64	57.34
Transportation	1.78	1.78	1.88	1.91	1.95	2.00	2.04	2.07	2.11	2.14	2.17	2.20	2.23
Total Sales	272.15	264.96	281.62	284.70	285.23	289.26	293.18	296.47	296.26	298.52	301.07	304.12	306.35
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Imports	41.12	25.00	31.94	32.39	32.10	34.91	32.89	34.77	35.52	38.14	36.84	33.31	30.76
Gross Interregional Electricity Exports	19.13	10.42	11.98	13.49	14.05	5.29	5.45	6.34	6.25	9.46	10.20	9.86	11.78
Purchases from Combined Heat and Power 8/	1.22	1.39	1.29	1.33	1.02	1.06	1.10	1.15	1.18	1.22	1.27	1.31	1.34
Electric Power Sector Generation for Custome	280.72	277.94	280.47	284.38	286.03	278.21	284.00	285.94	284.31	286.74	290.89	297.28	304.07
Total Net Energy for Load	303.92	293.92	301.73	304.62	305.09	308.88	312.54	315.52	314.77	316.63	318.80	322.03	324.39
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	130.10	129.50	132.60	132.70	133.87	125.56	128.71	126.28	126.10	126.32	128.96	129.71	132.28
Petroleum	10.55	2.29	3.26	3.23	3.28	3.41	3.42	3.47	3.49	3.51	3.68	3.73	3.76
Natural Gas	27.22	31.20	29.49	33.46	33.95	20.82	22.08	22.40	19.17	18.18	18.92	20.71	22.56
Nuclear	108.41	109.56	108.28	108.02	107.71	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42
Pumped Storage/Other 9/	0.99	0.96	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Renewable Sources 10/	6.43	7.42	8.51	8.63	8.89	21.66	23.05	27.04	28.81	31.99	32.58	36.39	38.75
Total Generation	283.69	280.92	282.98	286.88	288.53	280.71	286.51	288.44	286.82	289.25	293.40	299.79	306.59
Sales to Customers	280.72	277.94	280.47	284.38	286.03	278.21	284.00	285.94	284.31	286.74	290.89	297.28	304.07
Generation for Own Use	2.97	2.98	2.50	2.50	2.50	2.51	2.51	2.50	2.51	2.51	2.51	2.52	2.52
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	1.20	1.16	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
Petroleum	0.58	0.40	0.40	0.40	0.44	0.44	0.44	0.45	0.44	0.44	0.45	0.45	0.44
Natural Gas	1.63	1.60	1.79	1.98	3.43	3.61	3.78	4.02	4.21	4.41	4.74	5.02	5.31
Other Gaseous Fuels	0.68	1.01	1.03	1.03	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49
Renewable Sources 10/	0.97	0.99	1.00	1.01	1.02	1.06	1.07	1.08	1.08	1.09	1.10	1.11	1.13
Other	0.12	0.12	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	5.17	5.28	5.35	5.55	6.49	6.71	6.90	7.16	7.34	7.55	7.90	8.18	8.49
Sales to Utilities	1.22	1.39	1.29	1.33	1.02	1.06	1.10	1.15	1.18	1.22	1.27	1.31	1.34
Generation for Own Use	3.95	3.89	4.06	4.22	5.48	5.64	5.80	6.01	6.16	6.33	6.63	6.88	7.14
Total Electricity Generation	288.85	286.20	288.33	292.43	295.02	287.42	293.41	295.60	294.16	296.80	301.33	308.02	315.14
End-Use Prices (2006 cents per kilowatthour)													
Residential	10.7	11.4	11.6	11.9	12.3	11.8	11.6	11.7	11.5	11.5	11.5	11.7	11.7
Commercial	10.2	11.0	10.4	10.7	10.9	10.3	9.9	10.0	9.8	9.6	9.7	9.9	9.9
Industrial	8.0	8.5	7.9	8.2	8.4	7.8	7.5	7.5	7.2	7.0	7.0	7.1	7.2
Transportation	10.6	10.0	10.1	10.7	11.0	10.5	10.1	10.1	9.9	9.7	9.8	9.8	9.9
All Sectors Average	9.8	10.6	10.4	10.7	10.9	10.4	10.0	10.1	9.9	9.8	9.9	10.0	10.0
Prices by Service Category (2006 cents per kilowatthour)													
Generation	6.9	7.7	7.4	7.8	7.9	7.4	7.0	7.0	6.8	6.7	6.8	6.9	6.9
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Distribution	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Fuel Consumption (quadrillion Btu) 11/													
Coal	1.34	1.33	1.31	1.31	1.32	1.25	1.28	1.26	1.26	1.26	1.29	1.29	1.32
Natural Gas	0.24	0.27	0.27	0.30	0.30	0.20	0.21	0.21	0.19	0.18	0.18	0.20	0.21
Oil	0.12	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Total	1.70	1.63	1.62	1.65	1.67	1.49	1.53	1.51	1.48	1.48	1.51	1.54	1.57
Fuel Prices (dollars per million Btu)													
Coal	2.09	2.06	2.06	2.07	2.11	2.13	2.14	2.10	2.09	2.06	2.05	2.04	2.03
Natural Gas	9.62	7.62	7.13	7.54	7.77	7.33	7.03	6.80	6.51	6.30	6.17	6.12	6.18
Distillate Fuel Oil	12.10	12.79	14.69	16.86	14.95	14.29	13.59	12.89	12.19	11.91	11.36	10.93	10.94
Residual Fuel Oil	7.41	7.78	8.22	9.96	9.96	9.37	8.92	8.40	7.95	7.63	7.16	6.74	6.75
Biomass	1.87	1.87	1.87	1.87	1.87	1.88	1.89	1.92	1.94	1.96	2.23	2.26	2.28
Emissions 12/													
Total Carbon (million tons)	41.43	40.78	42.48	42.97	43.49	39.68	40.68	40.11	39.72	39.70	40.58	41.00	41.86
Carbon Dioxide (million tons)	151.92	149.53	155.78	157.57	159.46	145.50	149.17	147.08	145.63	145.56	148.78	150.35	153.50
Sulfur Dioxide (million tons)	1.16	1.01	1.08	1.00	0.72	0.37	0.34	0.29	0.28	0.27	0.28	0.28	0.28
Nitrogen Oxide (million tons)	0.21	0.19	0.22	0.21	0.14	0.13	0.14	0.14	0.14	0.14	0.10	0.10	0.11
Mercury (tons)	5.84	5.52	5.89	5.52	5.09	1.92	1.88	1.59	1.62	1.52	1.25	1.20	1.20

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.95	23.58	24.25	25.60	25.99	0.8%
Oil and Natural Gas Steam 2/	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	-0.5%
Combined Cycle	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	0.0%
Combustion Turbine/Diesel	10.54	10.68	11.18	11.85	12.51	13.25	13.97	14.62	14.62	14.62	14.62	14.62	14.62	1.4%
Nuclear Power	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	12.86	12.86	-0.1%
Pumped Storage/Other 3/	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	5.74	6.31	6.52	6.59	6.67	6.68	6.69	6.74	6.85	6.94	6.98	6.98	7.25	5.3%
Distributed Generation 5/	0.26	0.38	0.50	0.63	0.75	0.88	1.01	1.13	1.26	1.39	1.51	1.63	1.74	--
Total Capacity	73.80	74.64	75.48	76.35	77.21	78.08	78.94	79.77	80.65	81.49	82.32	83.17	83.94	0.8%
Cumulative Planned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	--
Cumulative Unplanned Additions 6/														
Coal	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.40	2.03	2.71	4.05	4.44	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.14	0.64	1.32	1.97	2.71	3.43	4.09	4.09	4.09	4.09	4.09	4.09	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	3.40	3.97	4.18	4.25	4.33	4.34	4.35	4.41	4.51	4.60	4.64	4.64	4.91	--
Distributed Generation 5/	0.26	0.38	0.50	0.63	0.75	0.88	1.01	1.13	1.26	1.39	1.51	1.63	1.74	--
Total Unplanned Additions	4.42	5.25	6.09	6.96	7.82	8.69	9.55	10.39	11.26	12.10	12.94	14.40	15.17	--
Cumulative Total Additions	4.64	5.47	6.31	7.18	8.04	8.91	9.77	10.61	11.48	12.32	13.16	14.62	15.40	--

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.04	0.04	0.04	--
Oil and Natural Gas Steam 3/	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.62	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	1.55	1.55	--
End-Use Sectors 8/														
Coal	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Petroleum	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	3.5%
Natural Gas	0.92	0.97	1.02	1.07	1.13	1.19	1.26	1.32	1.40	1.47	1.55	1.64	1.73	7.5%
Other Gaseous Fuels	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-2.7%
Renewable Sources 4/	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.36	0.39	0.43	0.47	0.52	0.57	5.9%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	1.80	1.87	1.94	2.01	2.09	2.17	2.26	2.35	2.46	2.58	2.70	2.83	2.97	4.2%
Electricity Demand (billion kilowatthours)														
Residential	108.53	109.32	109.94	110.40	111.37	112.39	113.74	114.65	115.93	117.22	118.74	119.69	120.91	1.0%
Commercial/Other	141.00	143.05	145.09	147.31	149.39	151.38	153.32	155.23	157.11	159.01	160.84	162.73	164.49	1.6%
Industrial	56.91	56.39	55.94	55.59	55.03	54.47	53.97	53.51	53.05	52.74	52.19	51.66	51.27	-0.3%
Transportation	2.25	2.28	2.31	2.33	2.36	2.39	2.42	2.44	2.47	2.49	2.52	2.55	2.57	1.5%
Total Sales	308.70	311.04	313.28	315.62	318.14	320.64	323.45	325.84	328.56	331.48	334.30	336.63	339.24	1.0%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross Interregional Electricity Imports	30.01	27.63	29.47	30.51	32.95	35.81	38.07	38.96	38.11	34.83	33.20	27.24	26.00	0.2%
Gross Interregional Electricity Exports	12.97	13.75	14.05	13.55	13.15	13.57	13.43	12.69	14.05	13.25	13.91	14.05	14.05	1.3%
Purchases from Combined Heat and Power 8/	1.38	1.44	1.51	1.56	1.61	1.65	1.70	1.74	1.79	1.84	1.90	1.95	2.01	1.5%
Electric Power Sector Generation for Custome	308.47	314.03	314.80	315.68	315.47	315.63	316.16	317.02	322.05	327.57	332.80	341.31	345.25	0.9%
Total Net Energy for Load	326.88	329.36	331.73	334.21	336.88	339.52	342.50	345.03	347.91	351.00	353.99	356.45	359.22	0.8%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	135.74	139.30	140.08	140.18	139.05	138.64	138.78	139.07	143.73	149.02	153.81	163.36	167.56	1.1%
Petroleum	3.76	3.79	3.79	3.79	3.78	3.78	3.76	3.76	3.76	3.75	3.77	3.76	3.76	2.1%
Natural Gas	20.08	19.77	17.60	18.13	18.23	18.32	18.41	18.54	18.62	18.68	18.73	19.04	21.50	-1.5%
Nuclear	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	106.75	103.43	-0.2%
Pumped Storage/Other 9/	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	-0.6%
Renewable Sources 10/	42.16	44.44	46.62	46.86	47.69	48.17	48.49	48.93	49.22	49.40	49.76	50.10	50.69	8.3%
Total Generation	310.99	316.56	317.33	318.21	318.00	318.16	318.69	319.55	324.58	330.10	335.33	343.84	347.77	0.9%
Sales to Customers	308.47	314.03	314.80	315.68	315.47	315.63	316.16	317.02	322.05	327.57	332.80	341.31	345.25	0.9%
Generation for Own Use	2.52	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.52	-0.7%
Distributed Generation 5/	0.11	0.16	0.22	0.28	0.33	0.39	0.44	0.50	0.55	0.61	0.66	0.71	0.76	--

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	-0.2%
Petroleum	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.5%
Natural Gas	5.63	5.97	6.35	6.75	7.19	7.64	8.14	8.64	9.18	9.73	10.32	10.94	11.60	8.6%
Other Gaseous Fuels	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	-2.9%
Renewable Sources 10/	1.15	1.20	1.27	1.31	1.35	1.38	1.42	1.46	1.52	1.58	1.65	1.71	1.79	2.5%
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10.7%
Total	8.83	9.22	9.65	10.10	10.58	11.08	11.62	12.17	12.76	13.38	14.03	14.72	15.47	4.6%
Sales to Utilities	1.38	1.44	1.51	1.56	1.61	1.65	1.70	1.74	1.79	1.84	1.90	1.95	2.01	1.5%
Generation for Own Use	7.45	7.78	8.15	8.55	8.98	9.43	9.93	10.42	10.97	11.53	12.14	12.77	13.45	5.3%
Total Electricity Generation	319.93	325.94	327.20	328.59	328.92	329.63	330.75	332.22	337.89	344.09	350.03	359.27	364.00	1.0%
End-Use Prices (2006 cents per kilowatthour)														
Residential	11.8	11.7	11.6	11.4	11.5	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.7	0.1%
Commercial	10.0	9.9	9.8	9.6	9.7	9.8	9.8	9.8	9.8	9.9	10.0	9.8	10.1	-0.4%
Industrial	7.2	7.1	7.0	6.8	6.8	6.9	7.0	7.0	6.9	7.0	7.0	6.9	7.0	-0.8%
Transportation	9.9	9.8	9.6	9.5	9.5	9.5	9.6	9.6	9.5	9.6	9.6	9.5	9.7	-0.1%
All Sectors Average	10.1	10.0	9.9	9.8	9.8	9.9	9.9	10.0	10.0	10.0	10.1	10.0	10.2	-0.2%
Prices by Service Category (2006 cents per kilowatthour)														
Generation	7.0	6.9	6.8	6.6	6.6	6.8	6.8	6.8	6.8	6.9	6.9	6.8	7.0	-0.4%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9%
Distribution	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.3%
Fuel Consumption (quadrillion Btu) 11/														
Coal	1.34	1.38	1.39	1.39	1.38	1.37	1.37	1.38	1.41	1.45	1.49	1.56	1.59	0.8%
Natural Gas	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.21	-1.2%
Oil	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.0%
Total	1.58	1.62	1.61	1.61	1.60	1.60	1.60	1.61	1.64	1.68	1.72	1.79	1.84	0.5%
Fuel Prices (dollars per million Btu)														
Coal	2.02	2.01	2.02	2.03	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.03	-0.1%
Natural Gas	6.23	6.28	6.22	6.13	6.24	6.31	6.42	6.53	6.61	6.67	6.89	7.02	7.15	-0.3%
Distillate Fuel Oil	11.08	11.22	11.33	11.44	11.55	11.74	11.97	12.19	12.43	12.61	12.83	13.08	13.31	0.2%
Residual Fuel Oil	6.87	7.00	7.10	7.21	7.30	7.45	7.62	7.77	7.91	7.97	8.15	8.27	8.43	0.3%
Biomass	2.30	2.32	2.34	2.34	2.35	2.35	2.35	2.57	2.58	2.58	2.59	2.59	2.60	1.4%
Emissions 12/														
Total Carbon (million tons)	42.42	43.39	43.37	43.48	43.14	43.04	43.10	43.22	44.19	45.41	46.37	48.41	49.69	0.8%
Carbon Dioxide (million tons)	155.54	159.08	159.02	159.43	158.19	157.82	158.05	158.49	162.02	166.49	170.04	177.50	182.20	0.8%
Sulfur Dioxide (million tons)	0.26	0.27	0.26	0.25	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.24	0.23	-6.0%
Nitrogen Oxide (million tons)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	-2.3%
Mercury (tons)	1.20	1.19	1.18	1.19	1.17	1.16	1.16	1.16	1.14	1.13	1.14	1.14	1.12	-6.4%

Table 64. Electric Power Projections for EMM Region
Mid-Atlantic Area Council - -3

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	28.73	28.73	28.73	29.19	29.81	30.35	31.10	31.85	31.84	31.80	31.80	31.79	31.77
Oil and Natural Gas Steam 2/	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.05	0.00	0.00	0.00	0.00	0.00
Combined Cycle	5.85	6.02	6.02	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60
Combustion Turbine/Diesel	16.89	16.89	16.90	16.90	17.05	17.20	17.20	14.69	14.69	14.69	14.69	14.69	14.69
Nuclear Power	14.56	14.56	14.56	14.56	14.57	14.57	14.60	14.62	14.62	14.62	14.62	14.62	14.62
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.02	1.13	1.86	2.59	2.59	3.98	4.71	5.23	5.73	6.24	6.84	7.21	7.75
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	68.30	68.59	69.32	71.08	71.87	73.95	75.46	73.47	73.91	74.38	74.98	75.34	75.87
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.06	0.58	1.19	1.81	2.56	3.31	3.31	3.31	3.31	3.31	3.31
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.16	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.77	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.80	2.61	3.38	4.15	4.90	5.65	5.65	5.65	5.65	5.65	5.65
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	1.40	2.12	2.64	3.14	3.66	4.26	4.62	5.17
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	1.40	2.12	2.64	3.14	3.66	4.26	4.62	5.17
Cumulative Total Additions	0.00	0.00	0.80	2.61	3.38	5.55	7.02	8.29	8.79	9.30	9.90	10.27	10.81

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.06	0.12	0.12	0.19	0.19	0.19	0.20	0.24	0.24	0.25	0.27
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.81	0.81	0.81	0.81	0.81
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	2.52	2.52	2.52
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.06	0.12	0.12	0.20	0.20	3.47	3.53	3.57	3.57	3.58	3.60
End-Use Sectors 8/													
Coal	0.74	0.73	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Petroleum	0.16	0.17	0.17	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Natural Gas	0.25	0.23	0.24	0.24	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40
Other Gaseous Fuels	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Renewable Sources 4/	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.24	0.26
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.38	1.37	1.38	1.39	1.49	1.50	1.52	1.53	1.54	1.55	1.56	1.59	1.61
Electricity Demand (billion kilowatthours)													
Residential	86.67	83.94	85.93	86.21	86.63	87.32	87.57	88.09	85.55	85.26	85.24	85.63	85.68
Commercial/Other	91.66	92.03	93.16	93.32	94.82	95.62	96.90	98.31	100.02	101.95	103.80	105.59	107.20
Industrial	86.16	85.78	85.13	85.69	85.40	87.28	88.75	89.22	89.06	89.10	89.52	89.86	89.96
Transportation	0.25	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Total Sales	264.74	262.01	264.48	265.50	267.13	270.50	273.49	275.89	274.89	276.58	278.83	281.34	283.10
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	8.50	8.37	6.61	4.49	3.88	3.94	3.99	4.05	3.70	3.29	2.88	2.47	2.06
Gross Interregional Electricity Exports	58.68	43.55	43.26	51.96	60.41	65.07	70.31	76.26	77.44	78.76	78.76	77.76	73.90
Purchases from Combined Heat and Power 8/	0.77	0.74	0.74	0.75	0.79	0.81	0.83	0.85	0.87	0.88	0.90	1.04	1.19
Electric Power Sector Generation for Custome	306.84	306.94	318.16	329.70	340.37	348.08	355.97	363.93	363.93	366.97	369.27	371.20	369.45
Total Net Energy for Load	257.42	272.51	282.25	282.98	284.63	287.77	290.49	292.57	291.06	292.38	294.29	296.94	298.80
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	176.35	173.71	177.08	177.91	182.92	188.73	194.99	201.88	205.35	206.88	207.48	206.60	206.10
Petroleum	0.94	0.77	1.49	1.49	1.34	1.35	1.39	1.35	1.28	1.05	1.04	1.06	1.03
Natural Gas	15.33	12.86	17.92	27.53	32.98	30.02	28.47	27.49	21.63	21.42	20.90	20.47	16.87
Nuclear	112.50	118.21	117.39	116.99	116.26	116.32	116.78	117.06	117.06	117.06	117.06	117.06	117.06
Pumped Storage/Other 9/	0.19	0.47	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Renewable Sources 10/	3.90	3.26	6.01	7.50	8.60	13.38	16.08	17.84	20.31	22.27	24.49	27.72	30.11
Total Generation	309.21	309.28	320.15	331.69	342.36	350.08	357.97	365.90	365.91	368.94	371.25	373.18	371.44
Sales to Customers	306.84	306.94	318.16	329.70	340.37	348.08	355.97	363.93	363.93	366.97	369.27	371.20	369.45
Generation for Own Use	2.37	2.34	2.00	2.00	2.00	2.00	2.00	1.97	1.97	1.98	1.98	1.98	1.99
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	3.81	3.92	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96
Petroleum	0.26	0.27	0.27	0.27	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Natural Gas	1.33	1.22	1.25	1.30	1.87	1.92	1.98	2.04	2.11	2.17	2.24	2.32	2.41
Other Gaseous Fuels	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Renewable Sources 10/	1.34	1.30	1.30	1.31	1.31	1.35	1.38	1.40	1.41	1.42	1.43	1.56	1.71
Other	0.07	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	6.91	6.87	6.94	6.99	7.61	7.70	7.78	7.87	7.94	8.01	8.10	8.31	8.54
Sales to Utilities	0.77	0.74	0.74	0.75	0.79	0.81	0.83	0.85	0.87	0.88	0.90	1.04	1.19
Generation for Own Use	6.14	6.13	6.20	6.23	6.81	6.89	6.95	7.01	7.07	7.13	7.20	7.28	7.36
Total Electricity Generation	316.12	316.15	327.09	338.68	349.97	357.78	365.76	373.76	373.84	376.95	379.35	381.50	379.98
End-Use Prices (2006 cents per kilowatthour)													
Residential	8.8	8.9	9.4	9.6	10.0	10.0	9.9	9.8	9.8	9.7	9.7	9.7	9.8
Commercial	7.6	7.7	8.2	8.3	8.6	8.5	8.3	8.2	7.9	7.8	7.7	7.7	7.8
Industrial	4.9	5.0	5.6	5.8	6.1	5.9	5.6	5.5	5.3	5.1	5.1	5.1	5.1
Transportation	7.2	7.3	7.4	7.8	8.2	8.1	8.0	7.9	7.7	7.6	7.5	7.6	7.6
All Sectors Average	7.1	7.1	7.7	7.9	8.2	8.1	7.9	7.8	7.6	7.5	7.5	7.5	7.5
Prices by Service Category (2006 cents per kilowatthour)													
Generation	4.5	4.5	5.1	5.3	5.5	5.4	5.2	5.0	4.8	4.7	4.6	4.6	4.7
Transmission	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7
Distribution	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Fuel Consumption (quadrillion Btu) 11/													
Coal	1.91	1.89	1.89	1.90	1.95	2.01	2.07	2.13	2.16	2.18	2.19	2.17	2.17
Natural Gas	0.15	0.12	0.16	0.23	0.27	0.24	0.23	0.22	0.18	0.18	0.17	0.17	0.14
Oil	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Total	2.07	2.02	2.06	2.14	2.24	2.27	2.31	2.37	2.36	2.37	2.37	2.36	2.32
Fuel Prices (dollars per million Btu)													
Coal	1.40	1.42	1.45	1.49	1.52	1.56	1.55	1.53	1.51	1.50	1.50	1.49	1.49
Natural Gas	7.18	6.52	6.43	6.54	6.61	6.22	5.89	5.67	5.44	5.25	5.12	5.07	5.15
Distillate Fuel Oil	13.22	13.96	14.91	17.62	14.05	13.39	12.68	11.86	11.16	10.88	10.27	9.84	9.85
Residual Fuel Oil	17.81	26.45	29.50	40.00	35.55	32.40	29.90	27.29	24.60	21.91	19.27	16.62	16.75
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Emissions 12/													
Total Carbon (million tons)	60.08	57.16	57.87	59.26	61.50	62.77	64.24	65.96	66.17	66.47	66.66	66.28	65.65
Carbon Dioxide (million tons)	220.30	209.59	212.19	217.30	225.50	230.17	235.55	241.86	242.62	243.72	244.43	243.04	240.71
Sulfur Dioxide (million tons)	1.00	0.92	0.86	0.86	0.76	0.62	0.62	0.60	0.58	0.58	0.53	0.50	0.49
Nitrogen Oxide (million tons)	0.24	0.22	0.21	0.21	0.16	0.16	0.16	0.16	0.17	0.17	0.14	0.14	0.14
Mercury (tons)	5.00	4.73	4.86	4.78	4.73	4.46	4.54	4.15	3.98	2.94	2.81	2.61	2.54

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	31.72	31.72	31.60	31.60	31.60	31.46	31.46	31.46	31.46	31.46	31.46	31.46	31.46	0.4%
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.2%
Combined Cycle	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.75	0.5%
Combustion Turbine/Diesel	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	15.06	-0.5%
Nuclear Power	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	13.24	-0.4%
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	8.08	8.53	8.94	9.27	9.35	9.97	10.55	11.13	11.20	11.27	11.35	11.42	11.71	10.2%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.19	0.28	0.36	0.43	--
Total Capacity	76.15	76.59	76.89	77.21	77.29	77.77	78.35	78.94	79.10	79.27	79.43	79.57	79.09	0.6%
Cumulative Planned Additions 6/														
Coal	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	--
Combustion Turbine/Diesel	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	--
Cumulative Unplanned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	5.50	5.94	6.36	6.68	6.76	7.38	7.96	8.54	8.61	8.69	8.76	8.83	9.12	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.19	0.28	0.36	0.43	--
Total Unplanned Additions	5.50	5.94	6.36	6.68	6.76	7.38	7.96	8.55	8.72	8.88	9.04	9.19	10.08	--
Cumulative Total Additions	11.15	11.59	12.00	12.33	12.41	13.03	13.61	14.20	14.37	14.53	14.69	14.83	15.73	--

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.32	0.32	0.44	0.44	0.44	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	--
Oil and Natural Gas Steam 3/	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	3.65	3.65	3.77	3.77	3.77	3.91	3.91	3.91	3.91	3.91	3.91	3.91	5.29	--
End-Use Sectors 8/														
Coal	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.1%
Petroleum	0.19	0.19	0.19	0.39	0.39	0.39	0.34	0.34	0.34	0.36	0.36	0.36	0.36	3.2%
Natural Gas	0.41	0.42	0.44	0.47	0.48	0.50	0.51	0.52	0.54	0.55	0.57	0.59	0.61	4.1%
Other Gaseous Fuels	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.6%
Renewable Sources 4/	0.26	0.28	0.31	0.41	0.62	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.64	4.9%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	1.63	1.67	1.70	2.04	2.27	2.28	2.23	2.25	2.27	2.31	2.33	2.35	2.38	2.3%
Electricity Demand (billion kilowatthours)														
Residential	85.95	86.26	86.41	86.45	86.93	87.48	88.34	88.83	89.61	90.43	91.43	91.96	92.71	0.4%
Commercial/Other	108.71	110.27	111.82	113.46	115.03	116.57	118.13	119.70	121.30	122.92	124.48	126.02	127.49	1.4%
Industrial	89.87	89.67	89.36	89.20	88.63	88.24	87.84	87.44	87.21	86.86	86.33	85.78	85.30	0.0%
Transportation	0.27	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.6%
Total Sales	284.81	286.47	287.87	289.40	290.88	292.58	294.60	296.26	298.42	300.51	302.54	304.07	305.80	0.6%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross Interregional Electricity Imports	1.65	1.23	0.82	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	-22.6%
Gross Interregional Electricity Exports	70.55	68.59	65.13	65.03	66.77	65.67	67.53	67.20	64.68	62.02	60.66	59.66	59.39	1.3%
Purchases from Combined Heat and Power 8/	1.21	1.43	1.64	2.50	4.33	4.32	4.33	4.35	4.36	4.37	4.39	4.40	4.42	7.7%
Electric Power Sector Generation for Custome	368.30	368.28	366.50	367.55	369.45	370.15	374.12	375.54	375.29	374.81	375.58	376.18	377.70	0.9%
Total Net Energy for Load	300.60	302.35	303.84	305.44	307.01	308.80	310.93	312.68	314.96	317.17	319.31	320.92	322.75	0.7%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	201.02	199.50	194.75	194.67	196.90	195.78	197.47	196.88	196.39	195.65	195.80	196.40	205.44	0.7%
Petroleum	1.00	1.00	1.03	1.03	1.06	1.13	1.14	1.14	1.15	1.15	1.13	1.14	1.05	1.3%
Natural Gas	16.83	15.06	15.56	15.58	15.66	14.24	14.24	14.25	14.29	14.33	14.45	14.40	15.70	0.8%
Nuclear	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	110.24	-0.3%
Pumped Storage/Other 9/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-2.3%
Renewable Sources 10/	34.10	37.38	39.82	40.94	40.48	43.66	45.93	47.93	48.11	48.34	48.85	48.90	46.98	11.8%
Total Generation	370.28	370.27	368.50	369.55	371.44	372.15	376.12	377.53	377.28	376.81	377.57	378.18	379.68	0.9%
Sales to Customers	368.30	368.28	366.50	367.55	369.45	370.15	374.12	375.54	375.29	374.81	375.58	376.18	377.70	0.9%
Generation for Own Use	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.97	-0.7%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.12	0.16	0.19	--

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	0.0%
Petroleum	0.46	0.46	0.46	0.68	1.35	1.52	1.72	1.72	1.72	1.89	1.89	1.89	1.89	8.4%
Natural Gas	2.52	2.61	2.72	2.84	3.01	3.13	3.26	3.36	3.47	3.60	3.72	3.86	4.01	5.1%
Other Gaseous Fuels	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-0.8%
Renewable Sources 10/	1.72	1.94	2.15	3.01	4.82	4.81	4.83	4.84	4.85	4.87	4.88	4.89	4.90	5.7%
Other	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.2%
Total	8.79	9.10	9.42	10.62	13.27	13.55	13.89	14.01	14.13	14.45	14.58	14.73	14.89	3.3%
Sales to Utilities	1.21	1.43	1.64	2.50	4.33	4.32	4.33	4.35	4.36	4.37	4.39	4.40	4.42	7.7%
Generation for Own Use	7.58	7.68	7.78	8.12	8.95	9.23	9.56	9.67	9.77	10.07	10.19	10.32	10.47	2.3%
Total Electricity Generation	379.07	379.37	377.92	380.17	384.72	385.70	390.01	391.55	391.46	391.34	392.28	393.06	394.76	0.9%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	9.9	9.8	9.8	9.7	9.7	9.7	9.7	9.7	9.7	9.6	9.7	9.7	9.8	0.4%
Commercial	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.9	8.0	0.1%
Industrial	5.2	5.2	5.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.1	5.2	0.2%
Transportation	7.7	7.7	7.6	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.5	0.1%
All Sectors Average	7.6	7.6	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.6	7.8	0.3%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.7	4.8	4.9	0.3%
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2%
Distribution	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	-0.1%
Fuel Consumption (quadrillion Btu) 11/														
Coal	2.11	2.09	2.04	2.04	2.06	2.05	2.07	2.07	2.06	2.05	2.06	2.06	2.16	0.6%
Natural Gas	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.5%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.2%
Total	2.26	2.23	2.18	2.18	2.21	2.19	2.21	2.20	2.20	2.19	2.19	2.20	2.31	0.6%
Fuel Prices (dollars per million Btu)														
Coal	1.49	1.49	1.50	1.50	1.51	1.52	1.52	1.53	1.54	1.54	1.55	1.56	1.57	0.4%
Natural Gas	5.21	5.28	5.16	5.05	5.18	5.29	5.41	5.53	5.63	5.74	5.96	6.12	6.26	-0.2%
Distillate Fuel Oil	10.00	10.14	10.25	10.36	10.51	10.70	10.94	11.15	11.39	11.57	11.79	12.04	12.18	-0.6%
Residual Fuel Oil	17.40	18.16	18.80	19.33	20.09	21.05	21.90	22.92	23.89	23.09	24.08	25.18	25.91	-0.1%
Biomass	1.96	2.00	1.95	1.96	1.95	1.95	1.94	1.94	1.95	1.95	1.94	1.95	1.74	-0.3%
Emissions 12/														
Total Carbon (million tons)	63.96	63.29	61.87	61.87	62.61	62.12	62.76	62.59	62.47	62.24	62.37	62.55	65.65	0.6%
Carbon Dioxide (million tons)	234.53	232.06	226.86	226.86	229.58	227.78	230.12	229.49	229.04	228.23	228.67	229.34	240.70	0.6%
Sulfur Dioxide (million tons)	0.45	0.44	0.38	0.35	0.36	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.36	-3.8%
Nitrogen Oxide (million tons)	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	-2.0%
Mercury (tons)	2.23	2.22	2.09	2.09	2.14	2.05	1.98	1.96	1.95	1.98	1.89	1.85	1.77	-4.0%

Table 65. Electric Power Projections for EMM Region
Mid-America Interconnected Network - 04

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 66. Electricity Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	18.62	18.61	19.11	19.11	18.87	18.87	19.05	19.06	19.24	19.46	19.74	19.98	20.21
Oil and Natural Gas Steam 2/	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.47	0.47	0.47	0.47	0.47	0.47
Combined Cycle	1.66	2.16	2.29	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
Combustion Turbine/Diesel	7.72	7.82	8.02	8.12	8.33	8.72	8.72	8.72	8.72	8.72	8.72	8.72	8.72
Nuclear Power	3.08	3.08	3.08	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	5.07	5.28	6.02	6.27	6.38	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.06	0.07
Total Capacity	36.64	37.44	39.01	39.92	40.03	40.45	40.63	40.62	40.80	41.03	41.32	41.57	41.81
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.12	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Combustion Turbine/Diesel	0.00	0.00	0.20	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.78	1.03	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.86	2.75	2.87	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.19	0.37	0.59	0.87	1.10	1.34
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.21	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.06	0.07
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.23	0.63	0.81	0.82	1.01	1.23	1.52	1.77	2.01
Cumulative Total Additions	0.00	0.00	1.86	2.75	3.10	3.52	3.70	3.71	3.89	4.12	4.41	4.66	4.90

Table 66. Electric Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.29	0.29	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.29	0.29	0.53	0.53	0.53	0.55	0.55	0.55	0.55	0.55	0.55
End-Use Sectors 8/													
Coal	0.57	0.58	0.64	0.64	0.64	0.64	0.95	0.95	0.95	0.95	1.07	1.19	1.30
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.11	0.12	0.12	0.13	0.14
Other Gaseous Fuels	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.13	0.14	0.14	0.14	0.14	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	0.82	0.82	0.89	0.90	0.91	0.92	1.26	1.28	1.29	1.31	1.44	1.57	1.70
Electricity Demand (billion kilowatthours)													
Residential	53.54	53.30	55.81	55.46	56.23	56.84	56.99	57.37	55.89	55.76	55.83	56.16	56.25
Commercial/Other	47.13	47.87	49.23	48.91	49.96	50.32	50.90	51.61	52.45	53.34	54.26	55.17	56.00
Industrial	50.60	52.27	53.28	55.00	51.05	52.73	53.83	54.03	53.90	54.08	54.54	54.89	55.11
Transportation	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total Sales	151.31	153.49	158.36	159.42	157.29	159.94	161.77	163.05	162.28	163.23	164.68	166.27	167.40
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	12.93	13.23	12.68	12.60	8.99	5.94	8.25	9.22	8.96	8.64	9.36	8.75	9.20
Gross International Exports	3.50	4.54	3.68	3.56	3.56	3.55	3.55	3.55	3.65	3.67	3.60	3.65	3.60
Gross Interregional Electricity Imports	9.31	10.19	6.84	5.50	4.88	5.31	6.08	7.63	8.42	10.34	7.06	6.22	4.26
Gross Interregional Electricity Exports	12.09	13.56	10.63	11.95	13.56	9.12	13.19	15.65	18.96	22.53	21.92	21.73	21.91
Purchases from Combined Heat and Power 8/	1.10	1.10	1.09	1.10	1.11	1.14	1.99	2.01	2.02	2.15	2.44	2.74	3.05
Electric Power Sector Generation for Custome	160.97	159.61	165.75	169.23	172.69	173.36	175.12	176.08	177.75	180.28	183.07	185.77	188.32
Total Net Energy for Load	168.72	166.02	172.06	172.93	170.55	173.07	174.70	175.73	174.55	175.21	176.40	178.11	179.32
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	119.29	116.11	120.81	121.34	122.41	122.25	124.18	125.07	127.00	129.29	131.93	134.40	136.90
Petroleum	0.97	0.68	0.77	0.83	0.91	0.91	0.72	0.71	0.69	0.60	0.61	0.62	0.62
Natural Gas	4.46	4.32	1.74	2.08	3.09	3.04	3.11	3.24	3.02	3.35	3.48	3.70	3.75
Nuclear	24.89	25.57	23.96	23.94	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69
Pumped Storage/Other 9/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Renewable Sources 10/	12.09	13.90	18.71	21.29	22.83	23.71	23.67	23.62	23.60	23.60	23.61	23.62	23.61
Total Generation	161.97	160.84	166.27	169.75	173.21	173.88	175.65	176.60	178.28	180.81	183.60	186.31	188.86
Sales to Customers	160.97	159.61	165.75	169.23	172.69	173.36	175.12	176.08	177.75	180.28	183.07	185.77	188.32
Generation for Own Use	1.00	1.23	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.54	0.54
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03

Table 66. Electricity Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	2.61	2.70	2.95	2.95	2.95	2.95	5.27	5.27	5.27	5.27	6.14	7.01	7.88
Petroleum	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	0.25	0.16	0.19	0.24	0.31	0.37	0.42	0.48	0.54	0.60	0.66	0.73	0.80
Other Gaseous Fuels	0.07	0.07	0.07	0.07	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Renewable Sources 10/	0.93	0.93	0.93	0.93	0.95	1.01	1.17	1.19	1.21	1.34	1.37	1.41	1.45
Other	0.07	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	3.96	3.95	4.21	4.26	4.29	4.41	6.95	7.03	7.11	7.30	8.26	9.23	10.21
Sales to Utilities	1.10	1.10	1.09	1.10	1.11	1.14	1.99	2.01	2.02	2.15	2.44	2.74	3.05
Generation for Own Use	2.86	2.85	3.11	3.15	3.18	3.28	4.96	5.02	5.08	5.14	5.81	6.49	7.16
Total Electricity Generation	165.93	164.79	170.48	174.01	177.51	178.31	182.60	183.65	185.40	188.12	191.88	195.57	199.10
End-Use Prices (2006 cents per kilowatthour)													
Residential	8.3	8.5	7.8	7.6	8.1	8.3	8.3	8.2	8.2	8.2	8.1	8.0	8.0
Commercial	6.7	6.9	6.3	6.4	6.6	6.9	6.9	6.8	6.8	6.7	6.6	6.6	6.6
Industrial	5.0	5.1	4.7	4.9	5.1	5.3	5.2	5.2	5.1	5.1	5.1	5.0	5.0
Transportation	5.8	5.8	5.7	6.1	6.2	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.4
All Sectors Average	6.7	6.8	6.3	6.3	6.6	6.9	6.8	6.7	6.7	6.7	6.6	6.6	6.5
Prices by Service Category (2006 cents per kilowatthour)													
Generation	3.9	4.1	3.5	3.6	3.8	4.1	4.0	3.9	3.9	3.8	3.7	3.7	3.7
Transmission	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
Distribution	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Fuel Consumption (quadrillion Btu) 11/													
Coal	1.30	1.29	1.33	1.34	1.35	1.35	1.37	1.38	1.40	1.42	1.45	1.47	1.49
Natural Gas	0.05	0.04	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.36	1.34	1.36	1.37	1.39	1.39	1.41	1.42	1.44	1.46	1.48	1.51	1.53
Fuel Prices (dollars per million Btu)													
Coal	1.11	1.14	1.18	1.22	1.26	1.30	1.31	1.29	1.28	1.29	1.28	1.27	1.28
Natural Gas	7.95	6.49	6.75	7.08	7.16	6.68	6.37	6.15	5.88	5.70	5.59	5.55	5.60
Distillate Fuel Oil	12.85	13.58	14.82	17.76	13.91	13.28	12.71	11.90	11.21	10.93	10.32	9.89	9.91
Residual Fuel Oil	6.23	6.15	6.51	17.01	10.22	9.43	8.89	7.48	7.09	6.93	6.48	6.17	6.16
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Emissions 12/													
Total Carbon (million tons)	39.80	38.81	39.69	39.96	40.45	40.38	40.92	41.25	41.81	42.47	43.19	43.89	44.58
Carbon Dioxide (million tons)	145.92	142.30	145.52	146.52	148.31	148.05	150.04	151.26	153.30	155.72	158.35	160.93	163.44
Sulfur Dioxide (million tons)	0.40	0.35	0.35	0.35	0.36	0.31	0.29	0.26	0.24	0.24	0.27	0.24	0.24
Nitrogen Oxide (million tons)	0.29	0.26	0.26	0.25	0.21	0.20	0.20	0.20	0.20	0.20	0.18	0.18	0.18
Mercury (tons)	3.79	3.56	3.52	3.58	3.50	2.99	2.79	2.15	2.58	1.66	1.67	1.59	1.60

Table 66. Electricity Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	20.43	20.48	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.53	20.53	20.53	20.53	0.4%
Oil and Natural Gas Steam 2/	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.44	0.44	0.44	0.44	-0.4%
Combined Cycle	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	1.1%
Combustion Turbine/Diesel	8.72	8.83	9.04	9.32	9.47	9.78	10.09	10.35	10.63	10.96	11.24	11.48	11.71	1.7%
Nuclear Power	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	2.53	-0.8%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	0.8%
Distributed Generation 5/	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.20	0.21	0.26	0.30	0.34	--
Total Capacity	42.04	42.21	42.51	42.81	42.97	43.29	43.62	43.89	44.18	44.49	44.81	45.10	44.79	0.7%
Cumulative Planned Additions 6/														
Coal	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	--
Combustion Turbine/Diesel	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	--
Cumulative Unplanned Additions 6/														
Coal	1.55	1.60	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.60	0.71	0.92	1.20	1.35	1.66	1.97	2.23	2.51	2.84	3.12	3.36	3.59	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Distributed Generation 5/	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.20	0.21	0.26	0.30	0.34	--
Total Unplanned Additions	2.24	2.41	2.71	3.01	3.18	3.49	3.83	4.10	4.39	4.74	5.06	5.35	5.61	--
Cumulative Total Additions	5.13	5.30	5.60	5.90	6.06	6.38	6.72	6.99	7.28	7.62	7.95	8.24	8.50	--

Table 66. Electric Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.55	0.55	0.55	0.55	--
Oil and Natural Gas Steam 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.05	0.05	0.05	0.05	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.55	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.60	0.60	0.60	1.17	--
End-Use Sectors 8/														
Coal	1.62	1.69	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	4.6%
Petroleum	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.6%
Natural Gas	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.24	5.6%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Renewable Sources 4/	0.24	0.28	0.29	0.31	0.42	0.41	0.41	0.42	0.42	0.43	0.43	0.44	0.44	5.1%
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Total	2.05	2.18	2.21	2.24	2.36	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.43	4.6%
Electricity Demand (billion kilowatthours)														
Residential	56.50	56.74	56.90	56.96	57.29	57.69	58.27	58.61	59.14	59.69	60.37	60.75	61.26	0.6%
Commercial/Other	56.80	57.61	58.43	59.28	60.12	60.95	61.77	62.61	63.44	64.27	65.09	65.89	66.68	1.4%
Industrial	55.15	55.02	54.78	54.73	54.40	54.17	53.93	53.64	53.50	53.29	52.98	52.67	52.38	0.0%
Transportation	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Total Sales	168.50	169.42	170.15	171.01	171.86	172.85	174.02	174.91	176.12	177.29	178.48	179.36	180.36	0.7%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	9.30	9.10	8.36	8.36	8.36	8.36	8.36	8.37	8.51	8.37	8.37	8.51	8.52	-1.8%
Gross International Exports	3.57	3.55	3.55	3.55	3.46	3.38	3.21	3.05	3.05	3.05	3.05	3.05	3.05	-1.6%
Gross Interregional Electricity Imports	4.46	2.69	2.27	1.20	1.77	2.79	5.37	3.37	3.58	3.66	3.65	3.92	4.15	-3.7%
Gross Interregional Electricity Exports	24.04	22.49	21.44	20.74	20.29	19.96	21.71	18.88	17.49	16.33	17.03	14.78	14.07	0.2%
Purchases from Combined Heat and Power 8/	3.98	4.54	4.61	4.74	5.68	5.58	5.59	5.60	5.61	5.62	5.63	5.64	5.66	7.0%
Electric Power Sector Generation for Custome	190.38	191.19	192.02	193.19	192.04	191.78	192.03	191.97	191.51	191.66	193.64	191.89	192.02	0.8%
Total Net Energy for Load	180.50	181.48	182.27	183.20	184.10	185.17	186.42	187.37	188.67	189.93	191.21	192.14	193.22	0.6%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	139.14	140.13	140.69	140.81	140.63	140.57	140.78	140.71	140.75	140.79	140.98	140.73	140.74	0.8%
Petroleum	0.62	0.66	0.74	0.74	0.83	0.84	0.85	0.83	0.83	0.83	0.83	0.82	0.82	0.8%
Natural Gas	3.51	3.29	3.58	4.69	3.62	3.42	3.44	3.44	2.94	3.05	4.85	3.43	3.57	-0.8%
Nuclear	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	-0.3%
Pumped Storage/Other 9/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.0%
Renewable Sources 10/	23.69	23.68	23.58	23.52	23.54	23.53	23.54	23.56	23.57	23.57	23.56	23.48	23.48	2.2%
Total Generation	190.92	191.74	192.56	193.73	192.59	192.33	192.57	192.51	192.06	192.20	194.19	192.44	192.57	0.8%
Sales to Customers	190.38	191.19	192.02	193.19	192.04	191.78	192.03	191.97	191.51	191.66	193.64	191.89	192.02	0.8%
Generation for Own Use	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	-3.3%
Distributed Generation 5/	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.11	0.13	0.15	--

Table 66. Electric Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	10.24	10.78	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	6.0%
Petroleum	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	3.1%
Natural Gas	0.87	0.94	1.01	1.08	1.14	1.20	1.25	1.29	1.33	1.37	1.42	1.46	1.51	9.9%
Other Gaseous Fuels	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-5.7%
Renewable Sources 10/	1.66	2.06	2.11	2.25	3.20	3.11	3.13	3.16	3.18	3.20	3.22	3.23	3.25	5.4%
Other	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-2.3%
Total	12.86	13.87	14.08	14.29	15.31	15.28	15.35	15.42	15.49	15.55	15.61	15.67	15.74	5.9%
Sales to Utilities	3.98	4.54	4.61	4.74	5.68	5.58	5.59	5.60	5.61	5.62	5.63	5.64	5.66	7.0%
Generation for Own Use	8.88	9.33	9.47	9.55	9.63	9.70	9.76	9.82	9.87	9.93	9.98	10.03	10.09	5.4%
Total Electricity Generation	203.82	205.65	206.69	208.07	207.96	207.67	208.00	208.01	207.63	207.85	209.91	208.24	208.46	1.0%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	8.0	8.0	8.0	8.1	8.0	8.0	8.0	8.0	7.9	7.9	7.9	7.9	7.9	-0.3%
Commercial	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	-0.2%
Industrial	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	-0.1%
Transportation	6.4	6.5	6.5	6.5	6.6	6.2	6.2	6.2	6.3	6.3	6.4	6.4	6.4	0.4%
All Sectors Average	6.5	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.6	6.6	6.6	-0.2%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8	-0.3%
Transmission	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2%
Distribution	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	-0.4%
Fuel Consumption (quadrillion Btu) 11/														
Coal	1.51	1.52	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	0.7%
Natural Gas	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	-1.2%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%
Total	1.55	1.56	1.57	1.58	1.57	1.57	1.57	1.57	1.57	1.57	1.59	1.57	1.57	0.7%
Fuel Prices (dollars per million Btu)														
Coal	1.31	1.31	1.32	1.32	1.33	1.33	1.34	1.35	1.36	1.37	1.38	1.38	1.39	0.8%
Natural Gas	5.65	5.70	5.50	5.34	5.49	5.59	5.72	5.87	6.01	6.16	6.36	6.55	6.73	0.1%
Distillate Fuel Oil	10.05	10.19	10.30	10.40	10.55	10.74	10.98	11.19	11.43	11.61	11.83	12.08	12.22	-0.4%
Residual Fuel Oil	6.29	6.57	6.79	6.92	6.97	7.16	7.35	7.51	7.66	7.68	7.86	7.95	8.11	1.2%
Biomass	1.87	1.87	1.76	1.72	1.68	1.64	1.60	1.56	1.56	1.57	1.56	1.55	1.55	-0.8%
Emissions 12/														
Total Carbon (million tons)	45.12	45.42	45.62	45.81	45.72	45.65	45.74	45.71	45.66	45.70	46.02	45.73	45.73	0.7%
Carbon Dioxide (million tons)	165.45	166.54	167.26	167.97	167.63	167.38	167.70	167.61	167.42	167.56	168.76	167.68	167.68	0.7%
Sulfur Dioxide (million tons)	0.24	0.22	0.21	0.20	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	-3.0%
Nitrogen Oxide (million tons)	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	-1.6%
Mercury (tons)	1.54	1.54	1.46	1.49	1.18	1.16	1.16	1.14	1.12	1.12	1.11	1.10	1.08	-4.9%

Table 66. Electric Power Projections for EMM Region
Mid-Continent Area Power Pool - 05

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 67. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New York - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	3.19	3.19	3.00	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
Oil and Natural Gas Steam 2/	11.63	11.27	11.20	11.20	11.20	11.20	11.20	11.07	11.07	11.07	11.07	11.07	11.07
Combined Cycle	7.37	7.74	7.74	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28
Combustion Turbine/Diesel	5.11	5.09	5.26	5.26	5.26	5.26	5.26	4.77	4.77	4.77	4.77	4.77	4.77
Nuclear Power	5.84	5.84	5.84	5.84	5.84	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92
Pumped Storage/Other 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	4.81	5.02	5.03	5.31	5.31	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	39.26	39.44	39.36	40.01	40.01	40.14	40.14	39.53	39.53	39.53	39.53	39.53	39.53
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Combustion Turbine/Diesel	0.00	0.00	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.05	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.18	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Cumulative Total Additions	0.00	0.00	0.18	1.01	1.01	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05

Table 67. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New York - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.19	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Oil and Natural Gas Steam 3/	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.19	0.19	0.19	0.19	0.19	0.19
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.26	0.43	0.43	0.43	0.43	1.04	1.04	1.04	1.04	1.04	1.04
End-Use Sectors 8/													
Coal	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Petroleum	0.06	0.07	0.07	0.07	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Natural Gas	0.12	0.12	0.13	0.14	0.25	0.26	0.27	0.28	0.29	0.30	0.32	0.33	0.35
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.40	0.41	0.43	0.44	0.65	0.67	0.68	0.69	0.70	0.71	0.73	0.75	0.78
Electricity Demand (billion kilowatthours)													
Residential	52.52	48.80	51.83	51.97	52.52	52.85	53.00	53.18	51.56	51.25	51.10	51.23	51.19
Commercial/Other	73.74	70.80	74.85	75.97	74.91	75.69	76.84	77.81	78.85	80.08	81.17	82.25	83.18
Industrial	24.20	22.91	21.90	21.73	21.52	22.08	22.48	22.61	22.66	22.57	22.49	22.42	22.26
Transportation	1.43	1.40	1.44	1.46	1.49	1.53	1.56	1.59	1.62	1.64	1.67	1.69	1.71
Total Sales	151.89	143.91	150.02	151.13	150.45	152.16	153.88	155.19	154.70	155.54	156.43	157.59	158.34
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	10.72	12.50	14.93	11.78	12.39	8.23	7.26	7.81	9.69	9.37	2.71	3.14	4.16
Gross International Exports	3.42	2.51	3.72	3.44	3.44	3.38	3.44	3.58	3.64	3.41	3.18	2.96	2.84
Gross Interregional Electricity Imports	18.76	10.22	11.75	13.22	13.77	5.19	5.34	6.21	6.12	9.27	10.00	9.66	11.55
Gross Interregional Electricity Exports	6.16	6.96	8.67	9.41	10.63	3.69	3.68	3.95	3.58	4.11	2.89	2.52	2.31
Purchases from Combined Heat and Power 8/	0.52	0.50	0.41	0.42	0.43	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52
Electric Power Sector Generation for Custome	147.16	141.39	147.23	150.32	149.58	156.84	159.24	159.32	156.37	154.41	159.54	160.07	157.63
Total Net Energy for Load	167.59	155.13	161.93	162.89	162.10	163.64	165.18	166.28	165.44	166.03	166.67	167.91	168.71
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	17.08	17.88	18.65	17.87	17.16	17.24	16.86	16.69	16.43	16.32	16.52	16.61	16.79
Petroleum	24.24	6.96	8.40	8.61	8.61	8.67	8.72	8.99	8.94	8.96	9.01	9.02	9.00
Natural Gas	32.22	41.77	48.28	51.48	51.19	57.56	59.72	59.43	56.47	54.29	59.09	59.41	56.80
Nuclear	47.92	48.05	46.62	46.39	45.91	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58
Pumped Storage/Other 9/	0.00	0.02	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Renewable Sources 10/	27.50	28.32	26.48	27.16	27.90	27.99	28.57	28.82	29.15	29.45	29.54	29.64	29.66
Total Generation	148.95	143.00	148.81	151.90	151.15	158.42	160.82	160.88	157.94	155.98	161.11	161.64	159.20
Sales to Customers	147.16	141.39	147.23	150.32	149.58	156.84	159.24	159.32	156.37	154.41	159.54	160.07	157.63
Generation for Own Use	1.79	1.62	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.57	1.57	1.57	1.57
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 67. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New York - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	0.66	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Petroleum	0.31	0.21	0.21	0.21	0.24	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24
Natural Gas	0.66	0.65	0.73	0.81	1.40	1.47	1.54	1.64	1.71	1.79	1.92	2.04	2.16
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 10/	0.56	0.60	0.61	0.62	0.62	0.64	0.65	0.65	0.65	0.65	0.66	0.66	0.67
Other	0.09	0.09	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	2.29	2.21	2.21	2.30	2.91	3.00	3.07	3.17	3.25	3.33	3.47	3.59	3.72
Sales to Utilities	0.52	0.50	0.41	0.42	0.43	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52
Generation for Own Use	1.76	1.71	1.81	1.88	2.47	2.55	2.61	2.70	2.77	2.84	2.97	3.08	3.20
Total Electricity Generation	151.24	145.21	151.02	154.20	154.06	161.42	163.89	164.06	161.19	159.31	164.58	165.23	162.92
End-Use Prices (2006 cents per kilowatthour)													
Residential	16.2	16.9	17.3	17.6	18.1	17.6	17.5	17.7	17.6	17.5	17.6	17.7	17.9
Commercial	14.8	15.5	15.3	15.5	15.7	14.9	14.3	14.2	13.8	13.6	13.6	13.6	13.8
Industrial	8.5	9.4	9.0	9.2	9.4	8.8	8.5	8.5	8.1	8.0	7.9	8.0	8.1
Transportation	14.5	14.0	13.9	14.6	14.8	14.2	13.9	14.0	13.6	13.4	13.4	13.4	13.5
All Sectors Average	14.4	15.3	15.1	15.3	15.6	14.9	14.6	14.6	14.2	14.1	14.1	14.1	14.3
Prices by Service Category (2006 cents per kilowatthour)													
Generation	7.6	8.5	8.3	8.6	8.7	8.1	7.7	7.7	7.3	7.1	7.1	7.2	7.3
Transmission	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Distribution	4.2	4.3	4.3	4.2	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5
Fuel Consumption (quadrillion Btu) 11/													
Coal	0.18	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Natural Gas	0.31	0.40	0.44	0.46	0.46	0.50	0.51	0.51	0.49	0.47	0.51	0.51	0.49
Oil	0.25	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Total	0.74	0.66	0.73	0.74	0.73	0.78	0.78	0.78	0.76	0.74	0.78	0.78	0.76
Fuel Prices (dollars per million Btu)													
Coal	1.89	1.95	1.98	2.00	2.09	2.25	2.25	2.22	2.23	2.21	2.18	2.16	2.16
Natural Gas	9.60	7.55	7.13	7.58	7.81	7.34	7.05	6.81	6.51	6.29	6.16	6.11	6.17
Distillate Fuel Oil	12.02	12.71	14.63	16.77	15.13	14.47	13.77	13.06	12.36	12.08	11.51	11.08	11.09
Residual Fuel Oil	7.54	7.66	8.12	9.84	8.96	8.56	8.17	7.79	7.42	7.02	6.64	6.25	6.27
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.90	1.93	1.95	1.97	2.25	2.27	2.28
Emissions 12/													
Total Carbon (million tons)	14.51	13.82	14.85	14.99	14.68	15.45	15.53	15.49	15.06	14.78	15.45	15.52	15.24
Carbon Dioxide (million tons)	53.22	50.68	54.46	54.95	53.83	56.63	56.93	56.81	55.22	54.18	56.66	56.89	55.88
Sulfur Dioxide (million tons)	0.23	0.22	0.22	0.18	0.15	0.13	0.11	0.13	0.13	0.11	0.11	0.11	0.11
Nitrogen Oxide (million tons)	0.05	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Mercury (tons)	0.85	0.87	0.89	0.75	0.69	0.37	0.33	0.23	0.27	0.19	0.17	0.17	0.17

Table 67. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New York - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	3.03	3.03	3.12	3.34	3.56	3.85	4.10	4.33	4.59	5.00	5.36	5.66	7.14	3.4%
Oil and Natural Gas Steam 2/	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	-0.1%
Combined Cycle	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	0.3%
Combustion Turbine/Diesel	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.63	4.59	4.53	-0.5%
Nuclear Power	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	4.72	4.72	-0.9%
Pumped Storage/Other 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	0.3%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Capacity	39.73	39.73	39.82	40.04	40.26	40.55	40.80	41.03	41.29	41.70	41.92	40.97	42.40	0.3%
Cumulative Planned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	--
Combustion Turbine/Diesel	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	--
Cumulative Unplanned Additions 6/														
Coal	0.20	0.20	0.29	0.51	0.73	1.02	1.27	1.51	1.76	2.17	2.53	2.83	4.31	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Unplanned Additions	0.25	0.25	0.34	0.55	0.78	1.07	1.32	1.55	1.80	2.22	2.58	2.88	4.36	--
Cumulative Total Additions	1.25	1.25	1.34	1.56	1.78	2.08	2.32	2.56	2.81	3.22	3.58	3.88	5.36	--

Table 67. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New York - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	--
Oil and Natural Gas Steam 3/	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.62	0.67	0.73	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.18	2.43	2.49	--
End-Use Sectors 8/														
Coal	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Petroleum	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	3.6%
Natural Gas	0.37	0.39	0.41	0.43	0.46	0.48	0.51	0.54	0.57	0.60	0.63	0.67	0.71	7.7%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.14	0.15	0.17	0.18	0.20	0.22	0.24	0.26	0.29	0.32	0.35	0.39	0.43	6.7%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.81	0.84	0.87	0.91	0.95	1.00	1.04	1.09	1.15	1.21	1.28	1.35	1.43	5.3%
Electricity Demand (billion kilowatthours)														
Residential	51.30	51.44	51.51	51.51	51.77	52.05	52.50	52.72	53.12	53.54	54.06	54.31	54.69	0.5%
Commercial/Other	84.09	85.03	85.96	86.98	87.91	88.76	89.57	90.35	91.11	91.89	92.62	93.39	94.08	1.2%
Industrial	22.03	21.78	21.55	21.36	21.06	20.77	20.48	20.22	19.96	19.78	19.49	19.21	18.99	-0.8%
Transportation	1.74	1.76	1.78	1.80	1.82	1.84	1.86	1.88	1.90	1.92	1.94	1.96	1.98	1.5%
Total Sales	159.16	160.01	160.80	161.66	162.56	163.42	164.41	165.17	166.09	167.13	168.11	168.87	169.75	0.7%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	3.11	5.13	3.06	3.66	3.72	2.83	3.16	3.80	3.66	5.52	6.36	7.01	9.88	-1.0%
Gross International Exports	2.72	2.53	2.42	2.32	2.21	2.19	2.18	2.16	2.16	2.16	2.16	2.16	2.16	-0.6%
Gross Interregional Electricity Imports	12.71	13.47	13.77	13.27	12.89	13.30	13.16	12.44	13.77	12.98	13.63	13.77	13.77	1.2%
Gross Interregional Electricity Exports	1.79	2.03	1.12	0.59	0.19	0.18	1.10	0.83	0.96	1.64	2.69	3.02	3.44	-2.9%
Purchases from Combined Heat and Power 8/	0.53	0.54	0.55	0.57	0.58	0.60	0.61	0.63	0.65	0.67	0.69	0.71	0.73	1.6%
Electric Power Sector Generation for Custome	157.74	155.90	157.49	157.64	158.41	159.77	161.52	162.11	162.01	162.70	163.29	163.62	162.08	0.6%
Total Net Energy for Load	169.58	170.49	171.33	172.24	173.21	174.12	175.18	175.99	176.97	178.07	179.12	179.93	180.87	0.6%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	18.39	18.64	19.51	21.13	22.79	24.96	26.80	28.56	30.42	33.50	36.17	38.40	49.40	4.3%
Petroleum	9.00	8.96	8.97	8.92	8.90	8.86	8.84	8.80	8.69	8.61	8.51	8.42	8.27	0.7%
Natural Gas	55.39	53.25	53.94	52.57	51.70	50.87	50.81	49.63	47.73	45.43	43.40	41.59	38.49	-0.3%
Nuclear	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	37.22	-1.1%
Pumped Storage/Other 9/	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	12.4%
Renewable Sources 10/	29.58	29.67	29.69	29.65	29.65	29.69	29.69	29.74	29.78	29.78	29.83	29.82	29.87	0.2%
Total Generation	159.32	157.48	159.07	159.22	159.99	161.34	163.09	163.68	163.58	164.28	164.86	165.19	163.63	0.6%
Sales to Customers	157.74	155.90	157.49	157.64	158.41	159.77	161.52	162.11	162.01	162.70	163.29	163.62	162.08	0.6%
Generation for Own Use	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.55	-0.2%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 67. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New York - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.0%
Petroleum	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.6%
Natural Gas	2.29	2.43	2.58	2.75	2.93	3.12	3.33	3.54	3.76	3.99	4.23	4.49	4.77	8.6%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 10/	0.69	0.71	0.74	0.76	0.79	0.81	0.84	0.87	0.92	0.97	1.02	1.07	1.14	2.7%
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10.8%
Total	3.87	4.03	4.21	4.40	4.61	4.82	5.06	5.30	5.57	5.85	6.15	6.46	6.80	4.8%
Sales to Utilities	0.53	0.54	0.55	0.57	0.58	0.60	0.61	0.63	0.65	0.67	0.69	0.71	0.73	1.6%
Generation for Own Use	3.34	3.49	3.66	3.83	4.03	4.23	4.45	4.67	4.92	5.18	5.46	5.75	6.07	5.4%
Total Electricity Generation	163.19	161.51	163.28	163.62	164.59	166.17	168.15	168.98	169.15	170.13	171.01	171.65	170.43	0.7%
End-Use Prices (2006 cents per kilowatthour)														
Residential	17.9	17.9	17.9	17.8	17.9	17.9	18.0	18.1	18.2	18.2	18.3	18.4	18.5	0.4%
Commercial	13.8	14.0	14.1	14.0	14.1	14.1	14.2	14.3	14.4	14.4	14.6	14.7	14.7	-0.2%
Industrial	8.2	8.2	8.2	8.1	8.2	8.3	8.4	8.5	8.5	8.5	8.7	8.8	8.9	-0.2%
Transportation	13.6	13.6	13.6	13.4	13.5	13.5	13.6	13.7	13.8	13.8	14.0	14.1	14.2	0.1%
All Sectors Average	14.4	14.5	14.5	14.4	14.5	14.6	14.7	14.8	14.9	14.9	15.1	15.2	15.3	0.0%
Prices by Service Category (2006 cents per kilowatthour)														
Generation	7.4	7.5	7.5	7.4	7.6	7.6	7.7	7.8	7.9	7.9	8.1	8.2	8.2	-0.1%
Transmission	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	0.0%
Distribution	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.6	0.3%
Fuel Consumption (quadrillion Btu) 11/														
Coal	0.19	0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.28	0.30	0.32	0.34	0.42	3.4%
Natural Gas	0.48	0.46	0.47	0.46	0.45	0.45	0.44	0.44	0.42	0.41	0.39	0.38	0.35	-0.5%
Oil	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.9%
Total	0.77	0.75	0.76	0.77	0.77	0.78	0.80	0.80	0.80	0.80	0.81	0.81	0.87	1.1%
Fuel Prices (dollars per million Btu)														
Coal	2.24	2.24	2.23	2.21	2.19	2.17	2.15	2.13	2.11	2.10	2.08	2.08	2.07	0.3%
Natural Gas	6.22	6.26	6.18	6.07	6.19	6.25	6.36	6.47	6.55	6.61	6.83	6.96	7.09	-0.3%
Distillate Fuel Oil	11.24	11.38	11.49	11.60	11.71	11.90	12.13	12.35	12.59	12.77	12.98	13.24	13.47	0.2%
Residual Fuel Oil	6.39	6.51	6.62	6.73	6.85	6.98	7.11	7.25	7.36	7.46	7.63	7.79	7.94	0.1%
Biomass	2.30	2.27	2.28	2.27	2.27	2.28	2.28	2.57	2.57	2.57	2.57	2.58	2.56	1.3%
Emissions 12/														
Total Carbon (million tons)	15.45	15.25	15.55	15.73	15.99	16.36	16.74	16.97	17.12	17.49	17.79	18.04	19.97	1.5%
Carbon Dioxide (million tons)	56.64	55.90	57.01	57.69	58.63	59.97	61.39	62.21	62.78	64.12	65.24	66.14	73.21	1.5%
Sulfur Dioxide (million tons)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-3.6%
Nitrogen Oxide (million tons)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%
Mercury (tons)	0.17	0.17	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.22	-5.6%

Table 67. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New York - 06

- 1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.
- 2/ Includes oil-, gas-, and dual-fired capacity.
- 3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
- 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 5/ Primarily peak-load capacity fueled by natural gas.
- 6/ Cumulative additions after December 31, 2006.
- 7/ Generation to meet system load by source.
- 8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
- 9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.
- 10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
- 12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
- O&M = Operation and maintenance.
EMM = Electricity market module.
- - = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding.
- Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 68. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New England - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	3.71	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53
Oil and Natural Gas Steam 2/	7.17	7.17	7.17	7.17	7.17	7.17	7.17	5.73	5.73	5.73	5.73	5.73	5.73
Combined Cycle	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64
Combustion Turbine/Diesel	1.81	1.81	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
Pumped Storage/Other 3/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	2.92	2.98	3.05	3.16	3.16	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.07
Total Capacity	31.80	31.68	31.80	31.92	31.92	34.27	34.27	32.83	32.84	32.85	32.87	32.89	32.90
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.10	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.15	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.07
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	2.36	2.38	2.39	2.41	2.42
Cumulative Total Additions	0.00	0.00	0.15	0.26	0.26	2.62	2.62	2.62	2.62	2.64	2.66	2.67	2.69

Table 68. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New England - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	1.44	1.44	1.44
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.03	0.03	0.03	0.03	0.03	1.47	1.47	1.47	1.47	1.47	1.47
End-Use Sectors 8/													
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Petroleum	0.26	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Natural Gas	0.48	0.48	0.52	0.55	0.58	0.60	0.63	0.65	0.68	0.70	0.73	0.75	0.77
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.62	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.37	1.29	1.32	1.35	1.38	1.42	1.44	1.47	1.49	1.52	1.54	1.57	1.59
Electricity Demand (billion kilowatthours)													
Residential	48.86	46.74	47.41	47.90	48.08	48.46	48.53	48.63	47.25	46.96	46.89	47.09	47.10
Commercial/Other	55.00	54.67	56.12	57.13	56.60	57.28	58.14	58.93	59.86	60.93	62.05	63.17	64.16
Industrial	23.77	22.86	22.98	22.38	22.23	22.78	23.18	23.29	23.34	23.23	23.15	23.08	22.91
Transportation	0.24	0.24	0.23	0.23	0.26	0.28	0.30	0.32	0.33	0.34	0.36	0.38	0.39
Total Sales	127.87	124.51	126.74	127.64	127.17	128.81	130.16	131.18	130.79	131.47	132.44	133.72	134.55
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	9.58	9.32	6.93	8.44	5.98	6.84	7.01	5.99	5.54	4.35	6.98	9.41	9.79
Gross International Exports	0.84	1.16	0.74	0.55	0.54	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Gross Interregional Electricity Imports	7.18	7.98	9.59	10.38	11.56	4.76	4.75	5.01	4.48	4.57	3.54	2.74	2.73
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Purchases from Combined Heat and Power 8/	1.31	1.20	1.21	1.26	1.30	1.36	1.40	1.44	1.49	1.52	1.56	1.60	1.64
Electric Power Sector Generation for Custome	119.41	114.61	119.80	118.05	118.70	126.07	127.05	128.59	128.87	130.39	129.52	129.21	129.70
Total Net Energy for Load	136.63	131.94	136.80	137.57	137.01	138.52	139.72	140.55	139.88	140.34	141.12	142.48	143.37
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	22.98	22.30	19.56	19.71	20.08	20.48	20.84	21.21	21.59	21.95	22.32	22.68	23.06
Petroleum	11.55	3.39	2.69	2.68	2.71	2.66	2.66	2.52	2.53	2.54	2.52	2.50	2.50
Natural Gas	45.51	46.99	59.37	57.34	57.25	55.27	55.83	56.86	56.67	57.70	56.33	55.55	55.54
Nuclear	29.09	31.09	30.40	30.30	30.16	30.16	30.16	30.16	30.16	30.16	30.16	30.16	30.16
Pumped Storage/Other 9/	0.90	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Renewable Sources 10/	13.53	14.06	10.07	10.31	10.79	19.80	19.86	19.96	20.05	20.18	20.33	20.47	20.60
Total Generation	123.57	118.63	123.09	121.34	121.99	129.37	130.35	131.72	132.01	133.53	132.67	132.37	132.86
Sales to Customers	119.41	114.61	119.80	118.05	118.70	126.07	127.05	128.59	128.87	130.39	129.52	129.21	129.70
Generation for Own Use	4.15	4.02	3.29	3.29	3.29	3.30	3.30	3.13	3.14	3.14	3.15	3.16	3.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03

Table 68. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New England - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	0.36	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Petroleum	1.26	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Natural Gas	2.14	2.21	2.45	2.68	2.89	3.09	3.28	3.46	3.64	3.82	4.00	4.18	4.36
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 10/	3.23	3.14	3.14	3.14	3.14	3.18	3.20	3.20	3.20	3.20	3.20	3.21	3.21
Other	0.13	0.12	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Total	7.13	6.34	6.50	6.73	6.94	7.17	7.38	7.57	7.75	7.93	8.11	8.30	8.48
Sales to Utilities	1.31	1.20	1.21	1.26	1.30	1.36	1.40	1.44	1.49	1.52	1.56	1.60	1.64
Generation for Own Use	5.82	5.14	5.30	5.47	5.63	5.82	5.98	6.12	6.26	6.40	6.55	6.69	6.83
Total Electricity Generation	130.69	124.97	129.59	128.07	128.93	136.54	137.74	139.29	139.76	141.47	140.80	140.69	141.37
End-Use Prices (2006 cents per kilowatthour)													
Residential	13.9	16.1	15.4	15.7	16.3	15.8	15.8	16.0	15.8	15.8	15.6	15.6	15.7
Commercial	12.3	14.6	13.1	13.3	13.6	12.9	12.6	12.4	12.0	11.8	11.6	11.5	11.6
Industrial	9.4	11.6	11.5	11.8	11.6	10.5	9.9	9.6	9.0	8.8	8.5	8.4	8.5
Transportation	12.9	12.5	12.7	13.7	13.7	13.1	13.0	13.0	12.7	12.5	12.3	12.2	12.2
All Sectors Average	12.4	14.6	13.7	14.0	14.3	13.6	13.3	13.2	12.9	12.7	12.5	12.4	12.5
Prices by Service Category (2006 cents per kilowatthour)													
Generation	6.2	8.3	7.4	7.8	8.0	7.2	6.9	6.8	6.5	6.3	6.1	6.1	6.2
Transmission	2.2	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Distribution	3.9	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Fuel Consumption (quadrillion Btu) 11/													
Coal	0.24	0.23	0.21	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24
Natural Gas	0.35	0.36	0.47	0.45	0.45	0.42	0.42	0.43	0.43	0.44	0.43	0.42	0.42
Oil	0.12	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.71	0.63	0.71	0.69	0.69	0.67	0.67	0.68	0.68	0.70	0.69	0.69	0.69
Fuel Prices (dollars per million Btu)													
Coal	2.89	2.85	2.92	2.99	3.10	3.16	3.14	3.07	3.03	2.99	3.00	2.95	2.92
Natural Gas	9.65	7.36	7.27	7.90	8.22	7.66	7.41	7.16	6.90	6.62	6.42	6.33	6.38
Distillate Fuel Oil	12.17	12.86	14.80	17.21	13.29	12.62	11.92	11.18	10.47	10.19	9.62	9.18	9.19
Residual Fuel Oil	7.11	7.43	7.85	9.52	9.21	8.80	8.42	8.03	7.66	7.26	6.87	6.48	6.51
Biomass	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	2.18	2.19	2.19
Emissions 12/													
Total Carbon (million tons)	15.05	13.73	14.18	13.88	13.92	13.65	13.77	13.99	14.09	14.34	14.28	14.30	14.42
Carbon Dioxide (million tons)	55.20	50.35	52.01	50.90	51.05	50.05	50.51	51.30	51.66	52.58	52.37	52.42	52.87
Sulfur Dioxide (million tons)	0.18	0.14	0.14	0.13	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.10	0.09
Nitrogen Oxide (million tons)	0.04	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04
Mercury (tons)	0.56	0.61	0.67	0.59	0.57	0.54	0.55	0.37	0.34	0.32	0.30	0.28	0.29

Table 68. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New England - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	0.0%
Oil and Natural Gas Steam 2/	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	-0.9%
Combined Cycle	10.64	10.85	11.16	11.50	11.85	12.10	12.10	12.10	12.10	12.10	12.10	12.10	12.10	0.5%
Combustion Turbine/Diesel	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	0.1%
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	4.42	4.42	4.95	4.95	4.95	5.61	1.5%
Pumped Storage/Other 3/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	5.51	5.51	5.51	5.53	5.53	5.53	5.53	5.56	5.56	5.58	5.58	5.58	5.64	2.7%
Distributed Generation 5/	0.08	0.12	0.17	0.22	0.24	0.25	0.26	0.28	0.29	0.29	0.30	0.30	0.30	--
Total Capacity	32.91	33.16	33.52	33.93	34.29	34.55	34.57	35.12	35.13	35.70	35.70	35.70	36.42	0.6%
Cumulative Planned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	--
Cumulative Unplanned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.21	0.52	0.86	1.21	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.52	1.05	1.05	1.05	1.71	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	2.35	2.35	2.35	2.37	2.37	2.37	2.37	2.39	2.39	2.42	2.42	2.42	2.47	--
Distributed Generation 5/	0.08	0.12	0.17	0.22	0.24	0.25	0.26	0.28	0.29	0.29	0.30	0.30	0.30	--
Total Unplanned Additions	2.44	2.69	3.05	3.45	3.82	4.08	4.09	4.65	4.66	5.22	5.23	5.23	5.94	--
Cumulative Total Additions	2.70	2.95	3.31	3.72	4.08	4.34	4.35	4.91	4.92	5.49	5.49	5.49	6.21	--

Table 68. Electric Power Projections for EMM Region
 Northeast Power Coordinating Council / New England - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	--
End-Use Sectors 8/														
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Petroleum	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Natural Gas	0.80	0.82	0.85	0.87	0.90	0.92	0.95	0.98	1.00	1.03	1.06	1.09	1.13	3.6%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.57	0.58	0.58	0.58	0.59	0.59	0.60	0.62	0.63	0.64	0.65	0.68	0.70	1.0%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	1.62	1.65	1.68	1.71	1.74	1.77	1.81	1.84	1.88	1.92	1.97	2.02	2.08	2.0%
Electricity Demand (billion kilowatthours)														
Residential	47.25	47.39	47.52	47.56	47.82	48.12	48.55	48.78	49.16	49.58	50.05	50.27	50.67	0.3%
Commercial/Other	65.08	65.99	66.96	68.00	68.96	69.86	70.70	71.56	72.35	73.20	73.95	74.66	75.50	1.4%
Industrial	22.66	22.40	22.16	21.96	21.64	21.33	21.01	20.72	20.43	20.18	19.87	19.60	19.31	-0.7%
Transportation	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.47	0.48	0.49	0.50	3.2%
Total Sales	135.39	136.18	137.04	137.93	138.85	139.75	140.71	141.53	142.41	143.44	144.36	145.02	145.98	0.7%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	10.05	10.24	9.05	9.23	9.04	9.85	10.46	8.92	8.73	7.20	6.21	7.57	5.82	-1.9%
Gross International Exports	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-3.5%
Gross Interregional Electricity Imports	1.87	1.90	1.18	0.53	0.03	0.00	0.45	0.22	0.52	0.26	0.44	0.78	1.19	-7.6%
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Purchases from Combined Heat and Power 8/	1.68	1.72	1.76	1.80	1.84	1.88	1.91	1.95	1.99	2.03	2.06	2.10	2.14	2.4%
Electric Power Sector Generation for Custome	131.15	131.73	134.51	135.90	137.54	137.67	137.61	140.20	140.99	143.84	145.59	144.56	146.88	1.0%
Total Net Energy for Load	144.26	145.10	146.01	146.96	147.95	148.90	149.93	150.80	151.73	152.83	153.81	154.52	155.54	0.7%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	23.42	23.79	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	0.3%
Petroleum	2.51	2.48	2.48	2.45	2.43	2.39	2.38	2.37	2.37	2.35	2.37	2.35	2.34	-1.5%
Natural Gas	56.57	56.79	59.22	60.60	62.27	62.43	62.38	61.77	61.68	61.00	61.81	60.74	58.69	0.9%
Nuclear	30.16	30.16	30.16	30.16	30.16	30.16	30.16	33.31	34.15	37.54	38.41	38.44	42.64	1.3%
Pumped Storage/Other 9/	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0%
Renewable Sources 10/	20.65	20.68	20.67	20.72	20.71	20.72	20.72	20.78	20.81	20.98	21.02	21.06	21.24	1.7%
Total Generation	134.32	134.90	137.69	139.09	140.72	140.85	140.79	143.39	144.17	147.02	148.77	147.74	150.06	1.0%
Sales to Customers	131.15	131.73	134.51	135.90	137.54	137.67	137.61	140.20	140.99	143.84	145.59	144.56	146.88	1.0%
Generation for Own Use	3.17	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	-1.0%
Distributed Generation 5/	0.04	0.05	0.07	0.10	0.10	0.11	0.11	0.12	0.13	0.13	0.13	0.13	0.13	--

Table 68. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New England - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Petroleum	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.0%
Natural Gas	4.54	4.72	4.90	5.08	5.27	5.46	5.66	5.86	6.06	6.27	6.48	6.72	6.95	4.9%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 10/	3.22	3.23	3.24	3.25	3.26	3.27	3.29	3.31	3.33	3.35	3.37	3.40	3.44	0.4%
Other	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-4.3%
Total	8.66	8.86	9.05	9.25	9.44	9.65	9.86	10.07	10.30	10.52	10.76	11.03	11.30	2.4%
Sales to Utilities	1.68	1.72	1.76	1.80	1.84	1.88	1.91	1.95	1.99	2.03	2.06	2.10	2.14	2.4%
Generation for Own Use	6.98	7.14	7.29	7.45	7.61	7.77	7.94	8.12	8.31	8.50	8.70	8.93	9.16	2.4%
Total Electricity Generation	143.03	143.81	146.82	148.43	150.27	150.61	150.77	153.58	154.59	157.67	159.66	158.90	161.49	1.1%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	15.8	15.8	15.7	15.6	15.7	15.8	15.8	15.8	15.9	15.9	16.1	16.2	16.1	0.0%
Commercial	11.7	11.8	11.7	11.6	11.6	11.7	11.8	11.8	12.0	11.9	12.2	12.4	12.2	-0.7%
Industrial	8.6	8.6	8.5	8.4	8.5	8.6	8.7	8.7	8.9	8.9	9.1	9.2	9.2	-1.0%
Transportation	12.3	12.3	12.1	12.0	12.0	12.0	12.1	12.1	12.2	12.2	12.4	12.6	12.5	0.0%
All Sectors Average	12.6	12.7	12.6	12.5	12.5	12.6	12.7	12.7	12.9	12.9	13.1	13.3	13.2	-0.4%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	6.3	6.3	6.2	6.1	6.2	6.3	6.5	6.4	6.6	6.6	6.8	7.0	6.9	-0.8%
Transmission	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0%
Distribution	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0%
Fuel Consumption (quadrillion Btu) 11/														
Coal	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.4%
Natural Gas	0.43	0.43	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.45	0.46	0.45	0.43	0.7%
Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.6%
Total	0.70	0.71	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.73	0.74	0.73	0.71	0.5%
Fuel Prices (dollars per million Btu)														
Coal	2.88	2.84	2.81	2.77	2.70	2.65	2.60	2.54	2.48	2.48	2.47	2.47	2.47	-0.6%
Natural Gas	6.39	6.40	6.31	6.18	6.29	6.33	6.42	6.51	6.59	6.64	6.85	6.98	7.10	-0.1%
Distillate Fuel Oil	9.34	9.48	9.60	9.70	9.82	10.01	10.25	10.47	10.66	10.88	11.09	11.35	11.58	-0.4%
Residual Fuel Oil	6.62	6.75	6.86	6.97	7.09	7.22	7.35	7.49	7.60	7.70	7.87	8.03	8.19	0.4%
Biomass	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.48	2.48	2.48	2.48	2.48	2.48	1.2%
Emissions 12/														
Total Carbon (million tons)	14.66	14.77	15.13	15.24	15.38	15.35	15.34	15.26	15.24	15.16	15.27	15.13	14.86	0.3%
Carbon Dioxide (million tons)	53.77	54.14	55.47	55.88	56.41	56.30	56.26	55.96	55.90	55.58	56.00	55.46	54.48	0.3%
Sulfur Dioxide (million tons)	0.09	0.09	0.09	0.10	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-1.5%
Nitrogen Oxide (million tons)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%
Mercury (tons)	0.24	0.18	0.18	0.18	0.19	0.18	0.18	0.18	0.35	0.30	0.31	0.30	0.29	-3.0%

Table 68. Electric Power Projections for EMM Region
Northeast Power Coordinating Council / New England - 07

- 1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.
- 2/ Includes oil-, gas-, and dual-fired capacity.
- 3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
- 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 5/ Primarily peak-load capacity fueled by natural gas.
- 6/ Cumulative additions after December 31, 2006.
- 7/ Generation to meet system load by source.
- 8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
- 9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.
- 10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
- 12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
- O&M = Operation and maintenance.
EMM = Electricity market module.
- - = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding.
- Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 69. Electric Power Projections for EMM Region
 Florida Reliability Coordinating Council - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.52	11.74	12.85	13.92	15.04
Oil and Natural Gas Steam 2/	10.49	10.49	10.49	10.49	10.49	10.49	10.44	10.44	10.44	10.44	10.44	10.44	10.44
Combined Cycle	16.12	16.12	17.26	17.42	18.58	18.58	18.58	18.58	18.58	18.58	18.76	18.97	19.14
Combustion Turbine/Diesel	9.69	10.00	10.48	10.46	10.46	10.46	10.44	10.44	10.44	10.44	10.44	10.44	10.44
Nuclear Power	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.64	0.64	0.70	0.70	0.70	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	51.03	51.33	53.01	53.15	54.31	54.64	54.57	54.57	54.78	56.01	57.30	58.58	59.87
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.14	1.30	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46
Combustion Turbine/Diesel	0.00	0.00	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.68	1.83	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	1.44	2.55	3.61	4.73
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.40	0.57
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.54	1.77	3.06	4.34	5.63
Cumulative Total Additions	0.00	0.00	1.68	1.83	2.99	3.32	3.32	3.32	3.53	4.76	6.05	7.33	8.62

Table 69. Electric Power Projections for EMM Region
Florida Reliability Coordinating Council - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.01	0.01	0.01	0.08	0.08	0.08	0.08	0.08	0.08	0.08
End-Use Sectors 8/													
Coal	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Petroleum	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	0.23	0.25	0.29	0.30	0.35	0.36	0.37	0.39	0.40	0.41	0.42	0.44	0.45
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25
Other	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Total	0.85	0.87	0.92	0.93	0.96	0.98	1.00	1.01	1.03	1.04	1.06	1.07	1.09
Electricity Demand (billion kilowatthours)													
Residential	110.90	110.27	114.27	116.02	118.25	120.91	123.15	125.79	124.88	126.50	128.47	130.90	132.80
Commercial/Other	83.55	88.17	91.49	93.22	94.04	95.20	96.95	98.81	100.93	103.29	105.71	108.10	110.38
Industrial	17.47	16.47	16.11	16.90	17.20	17.63	17.97	18.12	18.20	18.20	18.26	18.31	18.32
Transportation	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
Total Sales	212.15	215.14	222.10	226.37	229.73	233.98	238.31	242.96	244.25	248.24	252.68	257.56	261.75
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	27.71	49.48	44.96	46.71	47.76	44.62	45.26	45.26	44.52	43.78	43.03	42.29	41.20
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Purchases from Combined Heat and Power 8/	0.42	0.39	0.31	0.33	0.70	0.73	0.77	0.81	0.85	0.87	0.91	0.93	0.98
Electric Power Sector Generation for Custome	209.94	212.29	191.69	194.17	196.26	203.50	207.02	211.52	213.18	217.70	222.69	228.55	234.02
Total Net Energy for Load	238.07	262.16	236.96	241.21	244.71	248.84	253.05	257.58	258.55	262.35	266.63	271.77	276.20
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	60.51	61.57	72.89	72.47	72.71	72.95	73.23	73.37	74.80	82.87	90.65	99.14	108.21
Petroleum	37.01	22.76	12.81	12.98	12.95	13.09	13.38	13.73	13.79	13.66	13.76	14.05	13.88
Natural Gas	80.56	93.34	72.95	75.86	78.05	83.63	86.59	90.46	90.45	87.02	83.70	80.76	77.54
Nuclear	28.76	31.43	30.48	30.34	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09
Pumped Storage/Other 9/	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Renewable Sources 10/	2.82	2.91	2.87	2.83	2.76	4.05	4.04	4.18	4.35	4.38	4.79	4.82	4.61
Total Generation	210.81	213.15	193.15	195.63	197.72	204.95	208.48	212.97	214.64	219.16	224.15	230.01	235.48
Sales to Customers	209.94	212.29	191.69	194.17	196.26	203.50	207.02	211.52	213.18	217.70	222.69	228.55	234.02
Generation for Own Use	0.86	0.86	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 69. Electric Power Projections for EMM Region
Florida Reliability Coordinating Council - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Petroleum	0.19	0.14	0.14	0.14	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Natural Gas	0.51	0.45	0.52	0.59	1.19	1.28	1.37	1.49	1.59	1.69	1.80	1.89	1.98
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 10/	1.38	1.41	1.41	1.42	1.42	1.46	1.49	1.50	1.52	1.53	1.54	1.55	1.59
Other	2.38	2.20	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Total	4.65	4.38	4.30	4.38	4.99	5.12	5.25	5.38	5.49	5.60	5.73	5.83	5.96
Sales to Utilities	0.42	0.39	0.31	0.33	0.70	0.73	0.77	0.81	0.85	0.87	0.91	0.93	0.98
Generation for Own Use	4.23	4.00	4.00	4.06	4.29	4.39	4.48	4.57	4.65	4.73	4.82	4.90	4.98
Total Electricity Generation	215.46	217.54	197.46	200.01	202.71	210.08	213.73	218.35	220.14	224.76	229.87	235.84	241.44
End-Use Prices (2006 cents per kilowatthour)													
Residential	10.0	11.5	11.3	11.1	11.5	11.8	11.4	11.2	11.1	11.0	10.8	10.8	10.8
Commercial	8.5	10.0	10.0	10.0	10.4	10.6	10.3	10.1	9.9	9.7	9.5	9.4	9.4
Industrial	6.8	7.9	7.6	7.7	8.0	8.1	7.9	7.7	7.6	7.4	7.3	7.3	7.2
Transportation	8.4	9.1	9.0	9.1	9.5	9.7	9.4	9.2	9.0	8.8	8.7	8.7	8.6
All Sectors Average	9.1	10.6	10.5	10.4	10.8	11.0	10.7	10.5	10.4	10.2	10.0	10.0	9.9
Prices by Service Category (2006 cents per kilowatthour)													
Generation	6.5	8.0	7.9	7.8	8.1	8.3	7.9	7.7	7.5	7.3	7.1	7.1	7.0
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7
Distribution	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Fuel Consumption (quadrillion Btu) 11/													
Coal	0.62	0.63	0.75	0.75	0.75	0.75	0.75	0.76	0.77	0.84	0.91	0.99	1.08
Natural Gas	0.64	0.75	0.61	0.63	0.65	0.68	0.70	0.73	0.73	0.70	0.68	0.65	0.63
Oil	0.38	0.23	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
Total	1.64	1.61	1.50	1.52	1.54	1.57	1.60	1.63	1.65	1.69	1.74	1.79	1.85
Fuel Prices (dollars per million Btu)													
Coal	2.67	2.50	2.57	2.62	2.69	2.76	2.64	2.56	2.51	2.47	2.46	2.41	2.39
Natural Gas	8.72	8.24	7.22	7.53	7.83	7.44	7.17	7.23	6.88	6.64	6.47	6.40	6.41
Distillate Fuel Oil	12.29	12.99	14.82	17.05	14.50	13.83	13.13	12.43	11.73	11.45	10.88	10.45	10.46
Residual Fuel Oil	7.18	7.85	8.31	10.08	11.13	10.33	9.78	9.14	8.61	8.36	7.80	7.36	7.35
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.90	1.87
Emissions 12/													
Total Carbon (million tons)	36.30	33.75	34.59	34.81	35.10	35.75	36.26	36.86	37.24	38.91	40.50	42.34	44.36
Carbon Dioxide (million tons)	133.12	123.76	126.83	127.63	128.70	131.07	132.94	135.15	136.56	142.68	148.48	155.23	162.67
Sulfur Dioxide (million tons)	0.37	0.36	0.28	0.28	0.29	0.29	0.28	0.26	0.26	0.21	0.21	0.23	0.15
Nitrogen Oxide (million tons)	0.20	0.18	0.17	0.17	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09
Mercury (tons)	1.28	1.22	1.17	1.02	1.07	1.01	1.11	1.15	1.17	1.06	1.00	1.02	0.76

Table 69. Electric Power Projections for EMM Region
 Florida Reliability Coordinating Council - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	16.31	17.44	18.59	19.79	19.79	19.79	19.79	19.79	19.79	20.12	21.01	22.10	22.32	3.3%
Oil and Natural Gas Steam 2/	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	0.0%
Combined Cycle	19.14	19.31	19.31	19.31	19.31	19.48	19.59	20.00	20.21	20.99	20.99	20.99	20.99	1.1%
Combustion Turbine/Diesel	10.44	10.44	10.53	10.61	10.66	10.66	10.66	10.66	10.66	10.77	10.77	10.77	10.90	0.4%
Nuclear Power	3.78	3.78	3.78	3.78	5.04	6.15	7.23	8.07	9.19	9.19	9.19	9.70	10.63	4.4%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	2.0%
Distributed Generation 5/	0.00	0.02	0.08	0.14	0.20	0.27	0.33	0.39	0.45	0.52	0.58	0.64	0.70	--
Total Capacity	61.14	62.46	63.76	65.09	66.47	67.81	69.07	70.38	71.78	73.06	74.02	75.68	77.00	1.7%
Cumulative Planned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	--
Combustion Turbine/Diesel	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	--
Cumulative Unplanned Additions 6/														
Coal	6.01	7.14	8.29	9.49	9.49	9.49	9.49	9.49	9.49	9.82	10.71	11.80	12.02	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.57	0.73	0.73	0.73	0.73	0.90	1.02	1.43	1.63	2.41	2.41	2.41	2.41	--
Combustion Turbine/Diesel	0.00	0.00	0.09	0.16	0.22	0.22	0.22	0.22	0.22	0.33	0.33	0.33	0.45	--
Nuclear Power	0.00	0.00	0.00	0.00	1.26	2.37	3.46	4.29	5.42	5.42	5.42	5.93	6.85	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	--
Distributed Generation 5/	0.00	0.02	0.08	0.14	0.20	0.27	0.33	0.39	0.45	0.52	0.58	0.64	0.70	--
Total Unplanned Additions	6.90	8.22	9.51	10.85	12.23	13.57	14.83	16.14	17.53	18.82	19.77	21.44	22.76	--
Cumulative Total Additions	9.89	11.21	12.50	13.84	15.22	16.56	17.82	19.13	20.52	21.81	22.76	24.43	25.75	--

Table 69. Electric Power Projections for EMM Region
Florida Reliability Coordinating Council - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	--
End-Use Sectors 8/														
Coal	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.7%
Natural Gas	0.46	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.57	0.58	3.6%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.25	0.27	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.33	0.34	0.34	1.8%
Other	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.0%
Total	1.11	1.13	1.17	1.19	1.20	1.22	1.23	1.24	1.26	1.27	1.29	1.30	1.32	1.8%
Electricity Demand (billion kilowatthours)														
Residential	134.95	137.05	138.91	140.53	142.71	144.96	147.60	149.74	152.31	154.87	157.73	159.85	162.30	1.6%
Commercial/Other	112.64	114.95	117.28	119.76	122.19	124.60	126.98	129.36	131.74	134.11	136.45	138.81	141.07	2.0%
Industrial	18.31	18.24	18.22	18.21	18.20	18.20	18.22	18.25	18.28	18.32	18.29	18.28	18.29	0.4%
Transportation	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.8%
Total Sales	266.15	270.50	274.67	278.76	283.37	288.03	293.07	297.63	302.61	307.57	312.75	317.21	321.94	1.7%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross Interregional Electricity Imports	39.73	37.01	37.92	35.02	34.41	33.52	32.44	31.47	28.44	27.27	25.68	21.40	19.22	-3.9%
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Purchases from Combined Heat and Power 8/	1.00	1.13	1.30	1.38	1.42	1.44	1.46	1.48	1.50	1.52	1.54	1.56	1.59	6.1%
Electric Power Sector Generation for Custome	240.10	247.29	250.61	257.74	263.17	268.97	275.35	281.10	289.37	295.76	302.78	311.76	318.90	1.7%
Total Net Energy for Load	280.84	285.43	289.83	294.14	299.00	303.92	309.25	314.05	319.31	324.55	330.01	334.72	339.71	1.1%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	117.93	126.89	135.91	144.77	144.72	144.65	144.65	144.65	144.65	147.17	153.74	162.13	164.10	4.2%
Petroleum	13.81	13.86	13.89	13.86	13.86	13.84	13.83	13.83	13.81	13.83	13.85	13.83	13.86	-2.0%
Natural Gas	73.81	71.99	66.22	64.54	62.56	59.69	57.31	55.90	55.66	57.65	57.93	55.59	54.45	-2.2%
Nuclear	30.09	30.09	30.09	30.09	37.51	46.20	54.96	62.13	70.65	72.64	72.76	75.96	82.64	4.1%
Pumped Storage/Other 9/	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	0.0%
Renewable Sources 10/	4.77	4.77	4.82	4.78	4.84	4.91	4.91	4.91	4.90	4.78	4.82	4.55	4.15	1.5%
Total Generation	241.57	248.75	252.07	259.20	264.63	270.43	276.81	282.56	290.83	297.22	304.25	313.22	320.36	1.7%
Sales to Customers	240.10	247.29	250.61	257.74	263.17	268.97	275.35	281.10	289.37	295.76	302.78	311.76	318.90	1.7%
Generation for Own Use	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	2.2%
Distributed Generation 5/	0.00	0.01	0.04	0.06	0.09	0.12	0.14	0.17	0.20	0.23	0.25	0.28	0.31	--

Table 69. Electric Power Projections for EMM Region
Florida Reliability Coordinating Council - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Petroleum	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.4%
Natural Gas	2.07	2.16	2.24	2.33	2.42	2.50	2.59	2.66	2.73	2.80	2.87	2.94	3.02	8.3%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 10/	1.61	1.73	1.90	1.97	2.01	2.01	2.03	2.05	2.07	2.09	2.11	2.13	2.15	1.8%
Other	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	-0.3%
Total	6.06	6.28	6.53	6.69	6.81	6.90	7.01	7.10	7.19	7.28	7.37	7.46	7.56	2.3%
Sales to Utilities	1.00	1.13	1.30	1.38	1.42	1.44	1.46	1.48	1.50	1.52	1.54	1.56	1.59	6.1%
Generation for Own Use	5.06	5.14	5.23	5.31	5.39	5.47	5.54	5.61	5.69	5.76	5.83	5.90	5.97	1.7%
Total Electricity Generation	247.63	255.04	258.63	265.96	271.53	277.45	283.96	289.83	298.22	304.72	311.87	320.96	328.23	1.7%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	10.8	10.8	10.8	10.8	10.9	11.0	11.0	11.0	11.0	11.0	10.9	11.0	11.0	-0.2%
Commercial	9.4	9.4	9.4	9.3	9.4	9.5	9.5	9.5	9.5	9.4	9.4	9.4	9.5	-0.2%
Industrial	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.2	7.2	7.2	7.2	7.2	7.2	-0.4%
Transportation	8.6	8.6	8.6	8.6	8.6	8.5	8.6	8.6	8.6	8.6	8.6	8.6	8.7	-0.2%
All Sectors Average	10.0	10.0	10.0	9.9	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	-0.2%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	7.0	7.0	7.0	6.9	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	-0.5%
Transmission	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.2%
Distribution	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.1%
Fuel Consumption (quadrillion Btu) 11/														
Coal	1.16	1.24	1.32	1.40	1.40	1.40	1.40	1.40	1.40	1.42	1.47	1.54	1.55	3.9%
Natural Gas	0.60	0.59	0.55	0.54	0.52	0.50	0.48	0.47	0.47	0.48	0.48	0.46	0.45	-2.1%
Oil	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	-1.9%
Total	1.91	1.98	2.02	2.09	2.07	2.05	2.03	2.02	2.02	2.05	2.10	2.15	2.15	1.2%
Fuel Prices (dollars per million Btu)														
Coal	2.32	2.31	2.31	2.32	2.33	2.33	2.33	2.33	2.33	2.33	2.34	2.34	2.35	-0.3%
Natural Gas	6.46	6.51	6.42	6.31	6.44	6.49	6.60	6.73	6.78	6.87	7.09	7.17	7.30	-0.5%
Distillate Fuel Oil	10.60	10.75	10.86	10.96	11.07	11.27	11.50	11.72	11.95	12.13	12.35	12.60	12.83	-0.1%
Residual Fuel Oil	7.46	7.60	7.70	7.80	7.87	8.04	8.23	8.40	8.57	8.60	8.78	8.87	9.04	0.6%
Biomass	1.93	2.06	2.03	2.00	1.97	2.04	2.04	2.04	2.03	1.99	2.00	1.97	1.81	-0.1%
Emissions 12/														
Total Carbon (million tons)	46.43	48.48	50.12	52.16	51.94	51.58	51.30	51.09	51.06	51.87	53.29	54.83	55.15	2.1%
Carbon Dioxide (million tons)	170.24	177.77	183.77	191.27	190.45	189.11	188.08	187.34	187.22	190.19	195.41	201.04	202.22	2.1%
Sulfur Dioxide (million tons)	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	-3.9%
Nitrogen Oxide (million tons)	0.09	0.10	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-2.3%
Mercury (tons)	0.77	0.73	0.72	0.79	0.71	0.68	0.67	0.66	0.66	0.66	0.68	0.68	0.66	-2.5%

Table 69. Electric Power Projections for EMM Region
Florida Reliability Coordinating Council - 08

- 1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.
- 2/ Includes oil-, gas-, and dual-fired capacity.
- 3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
- 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 5/ Primarily peak-load capacity fueled by natural gas.
- 6/ Cumulative additions after December 31, 2006.
- 7/ Generation to meet system load by source.
- 8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
- 9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.
- 10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
- 12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
- O&M = Operation and maintenance.
EMM = Electricity market module.
- - = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding.
- Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	70.76	70.76	71.38	71.38	72.03	71.82	71.56	71.36	71.36	71.66	71.96	72.26	72.56
Oil and Natural Gas Steam 2/	18.45	18.39	18.39	18.39	18.39	18.39	18.39	13.12	13.12	13.12	13.12	13.12	13.12
Combined Cycle	37.01	37.95	38.63	39.85	40.42	40.98	40.98	40.98	40.98	40.98	40.98	40.98	40.98
Combustion Turbine/Diesel	32.13	32.21	32.95	32.86	32.86	32.66	32.36	32.35	32.19	32.19	32.19	32.19	32.19
Nuclear Power	32.55	32.55	32.74	32.74	32.77	32.77	32.99	33.16	33.39	33.56	33.68	33.96	35.03
Pumped Storage/Other 3/	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	12.57	12.60	12.67	12.71	12.71	12.73	12.73	12.73	12.92	12.92	12.92	12.92	12.92
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	211.14	212.14	214.43	215.61	216.85	217.02	216.69	211.37	211.62	212.09	212.51	213.10	214.46
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.62	0.62	1.27	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.68	1.90	2.47	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
Combustion Turbine/Diesel	0.00	0.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.12	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	2.12	3.38	4.60	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.60	0.90	1.20
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.21	0.21	0.21	0.21	0.21
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.21	0.51	0.81	1.11	2.13
Cumulative Total Additions	0.00	0.00	2.12	3.38	4.60	5.22	5.22	5.22	5.41	5.71	6.01	6.31	7.33

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.26	0.52	0.71	0.71	0.71	0.71	0.71	0.71
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	5.28	5.28	5.28	5.28	5.28
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.01	0.10	0.10	0.29	0.59	0.60	0.76	0.76	0.76	0.76	0.76
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.00	0.00	0.01	0.10	0.10	0.56	1.11	6.60	6.76	6.76	6.76	6.76	6.76
End-Use Sectors 8/													
Coal	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Petroleum	0.19	0.23	0.35	0.35	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Natural Gas	4.69	4.50	4.62	4.68	4.74	4.81	4.88	4.96	5.04	5.11	5.19	5.26	5.34
Other Gaseous Fuels	0.22	0.20	0.21	0.21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Renewable Sources 4/	3.06	3.07	3.08	3.09	3.09	3.21	3.28	3.32	3.35	3.38	3.42	3.47	3.53
Other	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total	9.11	8.94	9.19	9.25	9.27	9.47	9.60	9.72	9.83	9.93	10.05	10.17	10.31
Electricity Demand (billion kilowatthours)													
Residential	316.99	316.85	324.64	326.30	333.78	340.37	345.41	351.60	348.09	351.51	355.84	361.47	365.58
Commercial/Other	244.21	253.74	260.19	263.47	266.81	270.16	275.04	280.16	285.91	292.35	298.80	305.14	311.12
Industrial	259.56	253.35	251.18	255.00	251.29	257.85	263.05	265.29	266.62	266.72	267.53	268.13	268.17
Transportation	0.52	0.53	0.53	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56
Total Sales	821.27	824.47	836.54	845.32	852.43	868.92	884.05	897.59	901.17	911.14	922.72	935.30	945.44
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	76.67	66.29	50.18	54.61	70.67	70.88	80.04	89.22	94.94	97.67	97.12	97.42	96.55
Gross Interregional Electricity Exports	56.59	70.53	69.59	70.11	70.15	69.74	67.39	68.19	64.81	64.59	62.27	58.46	55.71
Purchases from Combined Heat and Power 8/	5.84	5.51	6.54	6.66	7.60	8.02	8.19	8.40	8.66	8.84	9.05	9.24	9.61
Electric Power Sector Generation for Custome	851.48	847.42	905.38	909.59	899.93	914.99	917.91	922.21	915.13	921.03	929.75	938.72	947.17
Total Net Energy for Load	877.40	848.69	892.50	900.75	908.05	924.15	938.76	951.64	953.93	962.96	973.66	986.92	997.62
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	457.27	461.70	465.30	462.87	468.64	471.68	473.62	473.12	473.69	476.76	480.20	482.96	486.38
Petroleum	9.81	3.55	5.69	5.63	5.73	5.75	5.16	5.36	5.36	5.44	5.46	5.42	5.47
Natural Gas	101.65	109.85	149.95	154.24	139.62	151.38	151.19	153.84	142.78	143.21	146.52	148.85	146.72
Nuclear	251.51	249.34	258.38	260.27	258.34	258.40	260.23	261.79	263.64	264.99	265.96	267.96	274.23
Pumped Storage/Other 9/	-1.07	-1.36	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35
Renewable Sources 10/	36.67	29.17	36.66	37.20	38.20	38.39	38.33	38.69	40.27	41.24	42.22	44.14	44.98
Total Generation	855.83	852.25	913.64	917.85	908.19	923.25	926.18	930.45	923.38	929.27	938.01	946.98	955.43
Sales to Customers	851.48	847.42	905.38	909.59	899.93	914.99	917.91	922.21	915.13	921.03	929.75	938.72	947.17
Generation for Own Use	4.36	4.83	8.26	8.26	8.26	8.26	8.27	8.24	8.24	8.25	8.25	8.25	8.26
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	3.39	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
Petroleum	1.87	1.41	1.54	1.54	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
Natural Gas	22.31	22.42	22.77	23.22	24.62	25.17	25.73	26.35	26.93	27.51	28.11	28.67	29.22
Other Gaseous Fuels	2.23	1.81	1.71	1.71	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
Renewable Sources 10/	18.24	18.34	18.42	18.45	18.46	19.23	19.60	19.80	20.02	20.20	20.45	20.72	21.17
Other	1.24	1.76	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
Total	49.27	49.02	49.43	49.92	51.89	53.21	54.13	54.97	55.77	56.52	57.37	58.20	59.19
Sales to Utilities	5.84	5.51	6.54	6.66	7.60	8.02	8.19	8.40	8.66	8.84	9.05	9.24	9.61
Generation for Own Use	43.43	43.51	42.89	43.26	44.28	45.19	45.94	46.56	47.10	47.67	48.31	48.96	49.58
Total Electricity Generation	905.10	901.27	963.07	967.77	960.07	976.46	980.32	985.41	979.14	985.79	995.37	1005.17	1014.62
End-Use Prices (2006 cents per kilowatthour)													
Residential	8.7	8.9	8.6	8.6	9.0	9.0	8.8	8.6	8.6	8.4	8.3	8.3	8.3
Commercial	7.5	7.7	7.6	7.7	8.0	8.0	7.8	7.7	7.5	7.4	7.3	7.3	7.3
Industrial	5.2	5.3	5.3	5.5	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.1	5.1
Transportation	6.9	7.0	6.7	7.0	7.3	7.3	7.1	7.0	6.9	6.8	6.7	6.7	6.7
All Sectors Average	7.2	7.4	7.3	7.4	7.7	7.7	7.5	7.4	7.3	7.2	7.1	7.1	7.1
Prices by Service Category (2006 cents per kilowatthour)													
Generation	5.2	5.5	5.3	5.4	5.7	5.6	5.5	5.3	5.2	5.1	5.0	5.0	5.0
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Distribution	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
Fuel Consumption (quadrillion Btu) 11/													
Coal	4.63	4.67	4.75	4.73	4.78	4.81	4.83	4.83	4.84	4.87	4.90	4.93	4.96
Natural Gas	0.94	0.98	1.27	1.29	1.17	1.24	1.23	1.25	1.17	1.17	1.20	1.22	1.20
Oil	0.11	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	5.68	5.69	6.08	6.08	6.01	6.11	6.12	6.14	6.06	6.10	6.16	6.20	6.22
Fuel Prices (dollars per million Btu)													
Coal	2.20	2.08	2.10	2.15	2.20	2.22	2.17	2.12	2.09	2.06	2.04	2.02	2.01
Natural Gas	8.67	6.79	6.77	7.17	7.40	6.97	6.65	6.46	6.24	6.05	5.92	5.87	5.93
Distillate Fuel Oil	12.39	13.09	14.92	17.18	14.39	13.72	12.98	12.24	11.55	11.28	10.69	10.26	10.27
Residual Fuel Oil	6.84	7.82	8.29	10.05	11.10	10.30	9.75	9.06	8.54	8.30	7.74	7.30	7.29
Biomass	1.87	1.87	1.87	1.87	1.87	1.89	1.88	1.89	1.89	1.90	2.00	2.07	2.06
Emissions 12/													
Total Carbon (million tons)	152.77	153.61	157.56	157.23	156.90	158.96	159.38	159.75	158.58	159.56	160.91	161.93	162.68
Carbon Dioxide (million tons)	560.16	563.24	577.70	576.49	575.29	582.86	584.39	585.76	581.47	585.06	590.00	593.73	596.48
Sulfur Dioxide (million tons)	2.74	2.54	2.44	2.20	2.01	1.89	1.74	1.49	1.41	1.35	1.29	1.22	1.16
Nitrogen Oxide (million tons)	0.81	0.78	0.85	0.84	0.44	0.44	0.44	0.44	0.43	0.44	0.39	0.38	0.36
Mercury (tons)	10.39	10.33	9.64	9.13	8.66	7.75	7.33	6.39	6.41	5.54	5.38	5.02	4.97

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	72.56	72.95	72.95	75.59	77.78	80.16	82.13	84.05	85.75	87.82	89.63	91.38	92.65	1.1%
Oil and Natural Gas Steam 2/	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.04	-1.4%
Combined Cycle	40.98	40.98	40.98	40.98	41.13	41.13	41.13	41.13	41.13	41.13	41.30	41.50	41.71	0.4%
Combustion Turbine/Diesel	32.19	32.19	32.19	32.38	32.91	34.00	35.46	36.92	38.71	40.08	41.51	42.90	44.85	1.4%
Nuclear Power	37.03	39.43	42.31	42.31	42.31	42.31	42.31	42.31	42.31	42.31	42.31	42.31	41.60	1.0%
Pumped Storage/Other 3/	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.95	0.1%
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.12	0.18	0.24	0.31	0.37	0.44	0.50	0.56	0.62	--
Total Capacity	216.46	219.25	222.13	225.01	227.96	231.48	234.97	238.42	241.98	245.48	248.95	252.35	255.08	0.8%
Cumulative Planned Additions 6/														
Coal	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	--
Combustion Turbine/Diesel	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	--
Cumulative Unplanned Additions 6/														
Coal	1.20	1.59	1.59	4.23	6.42	8.80	10.77	12.69	14.40	16.46	18.27	20.02	21.29	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.32	0.52	0.73	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.18	0.72	1.80	3.26	4.73	6.52	7.89	9.32	10.71	12.65	--
Nuclear Power	2.72	5.12	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.24	--
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.12	0.18	0.24	0.31	0.37	0.44	0.50	0.56	0.62	--
Total Unplanned Additions	4.13	6.92	9.80	12.68	15.63	19.15	22.64	26.09	29.65	33.15	36.61	40.02	43.53	--
Cumulative Total Additions	9.33	12.12	15.00	17.88	20.83	24.35	27.84	31.29	34.85	38.35	41.81	45.22	48.73	--

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.72	0.71	0.72	0.71	--
Oil and Natural Gas Steam 3/	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.35	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	--
Total	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	7.54	--
End-Use Sectors 8/														
Coal	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.0%
Petroleum	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.27	0.26	0.27	0.27	0.27	0.5%
Natural Gas	5.41	5.48	5.54	5.61	5.67	5.73	5.78	5.83	5.89	5.94	5.99	6.04	6.10	1.3%
Other Gaseous Fuels	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.8%
Renewable Sources 4/	3.59	3.74	3.98	4.29	4.50	4.53	4.59	4.66	4.72	4.79	4.86	4.92	4.98	2.0%
Other	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%
Total	10.44	10.65	10.96	11.34	11.61	11.69	11.81	11.93	12.05	12.17	12.29	12.40	12.52	1.4%
Electricity Demand (billion kilowatthours)														
Residential	370.52	375.22	379.34	382.83	387.82	393.05	399.33	404.18	410.14	416.12	422.82	427.57	433.29	1.3%
Commercial/Other	317.13	323.16	329.24	335.68	341.99	348.31	354.61	360.94	367.21	373.50	379.70	385.96	392.11	1.8%
Industrial	268.04	267.10	266.72	266.38	266.32	266.21	266.48	266.92	267.51	267.98	267.74	267.58	267.92	0.2%
Transportation	0.57	0.57	0.58	0.58	0.59	0.61	0.62	0.62	0.63	0.63	0.63	0.64	0.65	0.8%
Total Sales	956.25	966.05	975.88	985.47	996.71	1008.18	1021.04	1032.66	1045.48	1058.23	1070.90	1081.75	1093.97	1.2%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross Interregional Electricity Imports	94.35	89.12	85.76	87.34	83.38	79.20	78.62	75.64	72.50	65.48	66.21	62.16	62.30	-0.3%
Gross Interregional Electricity Exports	50.41	45.30	46.19	43.09	42.00	43.19	44.01	43.29	41.57	36.10	35.39	26.68	25.08	-4.2%
Purchases from Combined Heat and Power 8/	9.80	10.73	12.49	14.82	16.31	16.15	16.33	16.49	16.65	16.80	16.96	17.11	17.26	4.9%
Electric Power Sector Generation for Custome	955.30	964.82	977.69	980.79	994.02	1011.68	1026.47	1040.82	1055.61	1070.43	1082.23	1088.86	1099.88	1.1%
Total Net Energy for Load	1009.04	1019.36	1029.75	1039.87	1051.72	1063.83	1077.40	1089.66	1103.19	1116.62	1130.00	1141.46	1154.36	1.3%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	486.67	490.23	491.75	510.06	524.42	541.80	556.84	572.11	583.89	598.35	609.77	619.06	628.85	1.3%
Petroleum	5.34	5.43	5.50	5.76	5.92	6.00	6.03	6.03	6.04	6.37	6.57	6.63	6.65	2.7%
Natural Gas	140.29	127.38	117.44	96.16	93.72	93.62	93.37	92.59	95.52	95.36	95.33	92.50	95.43	-0.6%
Nuclear	286.69	304.13	325.85	331.85	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	331.29	1.2%
Pumped Storage/Other 9/	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	2.3%
Renewable Sources 10/	46.93	48.27	47.77	47.59	47.38	47.67	47.65	47.50	47.59	47.76	47.97	48.08	48.29	2.1%
Total Generation	963.56	973.08	985.97	989.07	1002.29	1019.95	1034.74	1049.09	1063.89	1078.71	1090.50	1097.14	1108.15	1.1%
Sales to Customers	955.30	964.82	977.69	980.79	994.02	1011.68	1026.47	1040.82	1055.61	1070.43	1082.23	1088.86	1099.88	1.1%
Generation for Own Use	8.26	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	2.3%
Distributed Generation 5/	0.00	0.00	0.00	0.03	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.24	0.27	--

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	0.0%
Petroleum	1.88	1.88	1.88	1.91	1.91	1.91	1.91	1.91	1.89	1.91	1.89	1.89	1.89	1.2%
Natural Gas	29.74	30.26	30.77	31.28	31.77	32.22	32.65	33.05	33.45	33.84	34.23	34.63	35.05	1.9%
Other Gaseous Fuels	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	0.3%
Renewable Sources 10/	21.50	22.59	24.53	27.04	28.70	28.72	29.07	29.43	29.78	30.13	30.45	30.74	31.06	2.2%
Other	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	-0.1%
Total	60.05	61.66	64.11	67.15	69.31	69.77	70.57	71.33	72.04	72.81	73.49	74.19	74.92	1.8%
Sales to Utilities	9.80	10.73	12.49	14.82	16.31	16.15	16.33	16.49	16.65	16.80	16.96	17.11	17.26	4.9%
Generation for Own Use	50.25	50.93	51.62	52.33	53.00	53.63	54.24	54.84	55.39	56.01	56.54	57.08	57.65	1.2%
Total Electricity Generation	1023.61	1034.75	1050.07	1056.25	1071.65	1089.80	1105.42	1120.55	1136.09	1151.71	1164.21	1171.57	1183.34	1.1%
End-Use Prices (2006 cents per kilowatthour)														
Residential	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.4	8.4	8.4	8.5	8.5	-0.2%
Commercial	7.3	7.3	7.3	7.3	7.3	7.2	7.3	7.3	7.3	7.3	7.3	7.4	7.4	-0.2%
Industrial	5.2	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.2	5.2	-0.1%
Transportation	6.8	6.8	6.8	6.8	6.7	6.5	6.6	6.6	6.6	6.6	6.7	6.7	6.8	-0.2%
All Sectors Average	7.1	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.3	7.3	-0.1%
Prices by Service Category (2006 cents per kilowatthour)														
Generation	5.1	5.1	5.1	5.1	5.0	5.0	5.0	5.1	5.1	5.1	5.1	5.2	5.2	-0.2%
Transmission	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.9%
Distribution	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.3%
Fuel Consumption (quadrillion Btu) 11/														
Coal	4.97	5.00	5.02	5.18	5.30	5.44	5.56	5.68	5.76	5.87	5.95	6.00	6.08	1.1%
Natural Gas	1.15	1.05	0.98	0.82	0.80	0.80	0.80	0.80	0.82	0.82	0.82	0.80	0.82	-0.8%
Oil	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	2.2%
Total	6.18	6.11	6.06	6.06	6.17	6.31	6.43	6.54	6.65	6.76	6.84	6.87	6.97	0.8%
Fuel Prices (dollars per million Btu)														
Coal	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.97	-0.2%
Natural Gas	6.01	6.07	6.05	5.99	6.11	6.20	6.33	6.43	6.50	6.56	6.81	6.94	7.07	0.2%
Distillate Fuel Oil	10.42	10.57	10.68	10.78	10.90	11.10	11.33	11.55	11.78	11.97	12.19	12.44	12.64	-0.1%
Residual Fuel Oil	7.41	7.56	7.67	7.77	7.83	8.01	8.20	8.37	8.54	8.57	8.75	8.84	9.01	0.6%
Biomass	2.09	2.14	2.09	2.07	2.07	2.07	2.05	2.18	2.17	2.18	2.18	2.17	2.14	0.6%
Emissions 12/														
Total Carbon (million tons)	162.13	161.55	160.85	162.89	166.12	170.17	173.56	176.83	179.56	182.62	184.74	185.90	188.30	0.9%
Carbon Dioxide (million tons)	594.47	592.36	589.77	597.27	609.11	623.96	636.38	648.37	658.40	669.60	677.38	681.61	690.44	0.9%
Sulfur Dioxide (million tons)	0.99	0.96	0.91	0.90	0.90	0.89	0.89	0.90	0.90	0.87	0.86	0.86	0.92	-4.2%
Nitrogen Oxide (million tons)	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.34	-3.4%
Mercury (tons)	4.36	3.85	3.62	3.74	3.56	3.45	3.41	3.42	3.32	3.25	3.14	3.10	3.14	-4.8%

Table 70. Electric Power Projections for EMM Region
Southeastern Electric Reliability Council - 09

- 1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.
- 2/ Includes oil-, gas-, and dual-fired capacity.
- 3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
- 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 5/ Primarily peak-load capacity fueled by natural gas.
- 6/ Cumulative additions after December 31, 2006.
- 7/ Generation to meet system load by source.
- 8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
- 9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.
- 10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
- 12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
- O&M = Operation and maintenance.
EMM = Electricity market module.
- - = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding.
- Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	21.47	21.47	21.47	21.47	21.47	22.09	22.09	22.09	22.09	22.09	22.09	22.09	22.09
Oil and Natural Gas Steam 2/	12.99	12.99	12.96	12.96	12.96	12.94	12.94	9.90	9.90	9.90	9.90	9.90	9.90
Combined Cycle	9.93	9.93	9.93	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46
Combustion Turbine/Diesel	7.43	7.43	7.51	7.51	7.51	7.51	7.51	6.03	6.03	6.03	6.03	6.03	6.03
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Pumped Storage/Other 3/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	3.51	3.85	4.12	4.27	4.27	4.27	4.28	4.28	4.28	4.28	4.28	4.28	4.29
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	57.01	57.35	57.66	58.34	58.34	58.95	58.95	54.43	54.43	54.44	54.44	54.44	54.44
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Combustion Turbine/Diesel	0.00	0.00	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.30	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.47	0.47
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.64	1.31	1.32	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative Total Additions	0.00	0.00	0.64	1.31	1.32	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.96

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.03	0.03	0.03	0.05	0.05	3.09	3.09	3.09	3.09	3.09	3.09
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.30	0.30	0.30	0.30	0.30	1.78	1.78	1.78	1.78	1.78	1.78
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.33	0.33	0.33	0.35	0.35	4.87	4.87	4.87	4.87	4.87	4.87
End-Use Sectors 8/													
Coal	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Petroleum	0.05	0.04	0.06	0.06	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Natural Gas	0.84	0.80	0.80	0.80	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82
Other Gaseous Fuels	0.06	0.06	0.06	0.06	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Renewable Sources 4/	0.33	0.34	0.35	0.35	0.35	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.42
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	1.38	1.33	1.37	1.37	1.43	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.53
Electricity Demand (billion kilowatthours)													
Residential	67.26	68.47	67.41	68.08	69.24	70.35	71.04	71.92	70.71	71.00	71.49	72.27	72.76
Commercial/Other	69.47	71.54	71.50	72.30	73.07	74.01	75.32	76.67	78.12	79.73	81.32	82.86	84.29
Industrial	50.06	50.95	50.57	50.13	49.05	50.54	51.63	52.01	52.22	52.33	52.59	52.69	52.74
Transportation	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total Sales	186.83	191.00	189.52	190.55	191.40	194.93	198.05	200.65	201.09	203.12	205.44	207.87	209.84
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	16.00	18.39	16.81	19.82	18.28	18.14	17.71	18.60	19.05	21.41	19.13	19.61	20.32
Gross Interregional Electricity Exports	15.06	19.90	14.09	12.07	13.29	13.30	12.36	11.24	10.13	9.89	8.82	9.04	7.60
Purchases from Combined Heat and Power 8/	0.92	0.90	1.16	1.17	1.28	1.30	1.33	1.34	1.35	1.36	1.38	1.39	1.41
Electric Power Sector Generation for Custome	214.02	211.92	200.78	196.56	200.05	203.58	206.01	206.37	204.88	204.03	207.29	209.61	209.54
Total Net Energy for Load	215.89	211.30	204.67	205.47	206.31	209.73	212.68	215.08	215.15	216.91	218.98	221.57	223.67
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	142.56	140.01	140.55	139.35	139.53	142.11	144.21	145.34	145.78	146.21	146.65	147.10	147.51
Petroleum	1.60	0.24	2.02	1.01	1.12	1.15	1.17	1.22	1.22	1.22	1.22	1.20	1.20
Natural Gas	52.88	56.17	39.52	36.98	39.81	40.70	41.00	40.19	38.25	36.96	39.79	41.67	41.17
Nuclear	8.82	9.35	9.37	9.32	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
Pumped Storage/Other 9/	0.29	0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Renewable Sources 10/	8.20	6.45	9.68	10.26	10.67	10.69	10.70	10.70	10.71	10.71	10.71	10.72	10.72
Total Generation	214.36	212.26	201.10	196.88	200.37	203.90	206.32	206.69	205.20	204.35	207.61	209.92	209.86
Sales to Customers	214.02	211.92	200.78	196.56	200.05	203.58	206.01	206.37	204.88	204.03	207.29	209.61	209.54
Generation for Own Use	0.33	0.34	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	0.59	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Petroleum	0.10	0.09	0.22	0.22	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Natural Gas	4.27	4.32	4.33	4.35	4.38	4.40	4.43	4.46	4.49	4.51	4.54	4.57	4.60
Other Gaseous Fuels	1.18	0.94	0.89	0.89	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Renewable Sources 10/	2.28	2.34	2.39	2.40	2.40	2.51	2.58	2.62	2.64	2.67	2.71	2.76	2.81
Other	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Total	8.48	8.38	8.51	8.54	8.92	9.06	9.16	9.22	9.27	9.33	9.40	9.48	9.55
Sales to Utilities	0.92	0.90	1.16	1.17	1.28	1.30	1.33	1.34	1.35	1.36	1.38	1.39	1.41
Generation for Own Use	7.56	7.49	7.35	7.38	7.65	7.75	7.83	7.88	7.92	7.97	8.02	8.08	8.14
Total Electricity Generation	222.84	220.64	209.62	205.42	209.29	212.96	215.48	215.91	214.47	213.68	217.01	219.40	219.41
End-Use Prices (2006 cents per kilowatthour)													
Residential	8.2	8.5	8.6	8.7	9.1	9.2	9.1	8.8	8.8	8.7	8.6	8.6	8.7
Commercial	7.1	7.2	7.6	7.8	8.2	8.3	8.2	7.9	7.8	7.7	7.6	7.6	7.7
Industrial	5.4	5.6	5.9	6.1	6.3	6.3	6.3	6.0	5.9	5.8	5.8	5.8	5.8
Transportation	6.3	6.4	6.5	6.8	7.0	7.2	7.1	7.0	6.9	6.8	6.8	6.9	6.9
All Sectors Average	7.0	7.2	7.5	7.7	8.0	8.1	8.0	7.7	7.6	7.6	7.5	7.5	7.6
Prices by Service Category (2006 cents per kilowatthour)													
Generation	4.6	4.8	5.1	5.3	5.6	5.7	5.6	5.3	5.2	5.2	5.1	5.1	5.2
Transmission	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Distribution	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.7
Fuel Consumption (quadrillion Btu) 11/													
Coal	1.53	1.49	1.52	1.50	1.51	1.53	1.55	1.56	1.57	1.57	1.58	1.58	1.59
Natural Gas	0.49	0.52	0.37	0.35	0.37	0.38	0.38	0.37	0.35	0.35	0.37	0.38	0.38
Oil	0.02	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	2.03	2.01	1.91	1.87	1.89	1.92	1.94	1.94	1.94	1.93	1.96	1.98	1.98
Fuel Prices (dollars per million Btu)													
Coal	1.23	1.27	1.32	1.35	1.39	1.44	1.45	1.45	1.44	1.44	1.44	1.43	1.43
Natural Gas	8.29	6.48	6.75	7.13	7.31	6.85	6.52	6.33	6.13	5.94	5.81	5.77	5.83
Distillate Fuel Oil	12.47	13.18	14.83	17.31	13.62	12.97	12.32	11.58	10.89	10.61	10.02	9.60	9.61
Residual Fuel Oil	7.44	6.26	6.63	9.53	10.81	10.00	9.46	8.18	7.79	7.64	7.18	6.88	6.86
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88
Emissions 12/													
Total Carbon (million tons)	52.09	51.68	50.98	50.02	50.44	51.23	51.82	52.02	51.96	51.93	52.48	52.89	52.99
Carbon Dioxide (million tons)	190.98	189.48	186.91	183.39	184.95	187.83	190.02	190.74	190.53	190.40	192.43	193.92	194.31
Sulfur Dioxide (million tons)	0.43	0.40	0.46	0.43	0.45	0.42	0.39	0.37	0.36	0.34	0.28	0.28	0.27
Nitrogen Oxide (million tons)	0.29	0.27	0.28	0.27	0.24	0.24	0.25	0.24	0.24	0.24	0.21	0.22	0.22
Mercury (tons)	4.16	4.10	4.43	4.16	4.24	3.80	3.85	3.54	3.59	2.82	2.65	2.60	2.61

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	22.55	23.22	23.93	24.51	25.09	25.73	26.31	26.87	27.37	27.74	28.28	28.28	28.36	1.2%
Oil and Natural Gas Steam 2/	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	-1.1%
Combined Cycle	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	0.2%
Combustion Turbine/Diesel	6.03	6.03	6.03	6.03	6.07	6.17	6.27	6.35	6.53	6.86	7.01	7.66	8.27	0.4%
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	0.0%
Pumped Storage/Other 3/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	4.29	4.29	4.29	4.30	4.30	4.30	4.30	4.31	4.31	4.31	4.31	4.32	4.32	0.5%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.09	0.10	0.11	--
Total Capacity	54.91	55.57	56.29	56.87	57.51	58.26	58.95	59.62	60.31	61.02	61.72	62.38	63.09	0.4%
Cumulative Planned Additions 6/														
Coal	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	--
Combustion Turbine/Diesel	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.47	0.47	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.99	--
Cumulative Unplanned Additions 6/														
Coal	0.46	1.13	1.84	2.42	3.00	3.64	4.21	4.78	5.28	5.65	6.18	6.18	6.27	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.04	0.14	0.24	0.32	0.50	0.83	0.98	1.63	2.24	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.09	0.10	0.11	--
Total Unplanned Additions	0.46	1.13	1.84	2.42	3.05	3.81	4.49	5.16	5.85	6.56	7.25	7.91	8.62	--
Cumulative Total Additions	2.42	3.09	3.80	4.39	5.02	5.78	6.46	7.13	7.82	8.54	9.24	9.90	10.61	--

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	--
End-Use Sectors 8/														
Coal	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Petroleum	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	3.5%
Natural Gas	0.82	0.83	0.83	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.86	0.3%
Other Gaseous Fuels	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.7%
Renewable Sources 4/	0.43	0.44	0.49	0.61	0.65	0.65	0.66	0.68	0.69	0.70	0.72	0.73	0.74	3.3%
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Total	1.54	1.55	1.61	1.73	1.77	1.78	1.79	1.81	1.83	1.84	1.86	1.87	1.89	1.5%
Electricity Demand (billion kilowatthours)														
Residential	73.51	74.16	74.72	75.14	75.87	76.67	77.69	78.43	79.37	80.35	81.44	82.18	83.16	0.8%
Commercial/Other	85.87	87.36	88.89	90.45	91.97	93.53	95.11	96.71	98.26	99.87	101.41	103.04	104.71	1.6%
Industrial	52.78	52.61	52.44	52.36	52.30	52.18	52.14	52.11	52.20	52.22	52.17	52.08	52.12	0.1%
Transportation	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.3%
Total Sales	212.21	214.18	216.10	218.00	220.18	222.44	225.01	227.31	229.89	232.51	235.08	237.36	240.06	1.0%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross Interregional Electricity Imports	19.04	18.47	15.92	14.87	15.97	15.21	13.82	13.26	12.33	12.04	11.51	12.16	12.80	-1.5%
Gross Interregional Electricity Exports	6.64	6.41	5.30	5.54	6.59	7.75	7.84	8.87	9.01	8.72	8.47	8.03	7.35	-4.1%
Purchases from Combined Heat and Power 8/	1.43	1.45	1.80	2.79	3.02	2.94	2.96	2.98	2.99	3.01	3.03	3.04	3.06	5.2%
Electric Power Sector Generation for Custome	212.38	214.79	217.93	220.26	222.31	226.70	230.90	234.93	238.74	241.50	244.51	245.84	247.37	0.6%
Total Net Energy for Load	226.20	228.29	230.34	232.38	234.70	237.10	239.84	242.30	245.05	247.83	250.57	253.01	255.88	0.8%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	151.19	155.96	161.68	165.96	170.25	174.93	179.20	183.39	187.04	189.76	193.73	193.77	194.80	1.4%
Petroleum	1.22	1.27	1.35	1.41	1.49	1.58	1.63	1.67	1.70	1.73	1.78	1.78	1.77	8.7%
Natural Gas	40.30	37.32	34.63	32.63	30.35	29.98	29.91	29.70	29.81	29.83	28.84	30.16	31.08	-2.4%
Nuclear	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	0.0%
Pumped Storage/Other 9/	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	--
Renewable Sources 10/	10.74	11.31	11.34	11.34	11.29	11.28	11.24	11.25	11.25	11.26	11.23	11.20	10.80	2.2%
Total Generation	212.69	215.11	218.24	220.58	222.62	227.02	231.22	235.25	239.05	241.82	244.83	246.16	247.69	0.6%
Sales to Customers	212.38	214.79	217.93	220.26	222.31	226.70	230.90	234.93	238.74	241.50	244.51	245.84	247.37	0.6%
Generation for Own Use	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	-0.3%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	--

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.0%
Petroleum	0.44	0.44	0.44	0.47	0.47	0.47	0.47	0.47	0.44	0.47	0.44	0.44	0.44	6.9%
Natural Gas	4.63	4.65	4.68	4.71	4.73	4.76	4.78	4.80	4.83	4.85	4.88	4.90	4.93	0.5%
Other Gaseous Fuels	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	0.3%
Renewable Sources 10/	2.87	2.93	3.33	4.37	4.64	4.61	4.67	4.74	4.80	4.87	4.93	4.98	5.04	3.2%
Other	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.0%
Total	9.64	9.73	10.15	11.25	11.55	11.54	11.63	11.72	11.78	11.89	11.95	12.03	12.11	1.5%
Sales to Utilities	1.43	1.45	1.80	2.79	3.02	2.94	2.96	2.98	2.99	3.01	3.03	3.04	3.06	5.2%
Generation for Own Use	8.21	8.28	8.35	8.45	8.53	8.60	8.67	8.74	8.78	8.88	8.92	8.99	9.06	0.8%
Total Electricity Generation	222.33	224.83	228.39	231.82	234.18	238.57	242.86	246.98	250.86	253.74	256.81	258.23	259.85	0.7%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	8.7	8.7	8.7	8.6	8.6	8.6	8.7	8.6	8.6	8.6	8.6	8.6	8.6	0.1%
Commercial	7.7	7.7	7.6	7.5	7.5	7.5	7.6	7.6	7.5	7.5	7.5	7.6	7.6	0.2%
Industrial	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.8	5.8	5.8	0.1%
Transportation	7.0	7.0	7.0	6.9	6.9	6.5	6.6	6.6	6.7	6.7	6.7	6.8	6.8	0.3%
All Sectors Average	7.6	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.6	0.2%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.3	5.3	0.5%
Transmission	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.2%
Distribution	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.9%
Fuel Consumption (quadrillion Btu) 11/														
Coal	1.62	1.67	1.72	1.76	1.80	1.84	1.87	1.91	1.94	1.97	2.00	2.00	2.01	1.3%
Natural Gas	0.37	0.35	0.33	0.31	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	-2.2%
Oil	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	7.9%
Total	2.01	2.03	2.06	2.09	2.11	2.15	2.18	2.22	2.25	2.28	2.30	2.31	2.33	0.6%
Fuel Prices (dollars per million Btu)														
Coal	1.45	1.46	1.47	1.46	1.47	1.47	1.48	1.48	1.49	1.50	1.51	1.52	1.53	0.8%
Natural Gas	5.90	5.97	5.90	5.80	5.92	6.03	6.16	6.27	6.35	6.43	6.68	6.82	6.96	0.3%
Distillate Fuel Oil	9.75	9.91	10.03	10.15	10.29	10.50	10.73	10.95	11.19	11.38	11.60	11.85	12.03	-0.4%
Residual Fuel Oil	6.99	7.27	7.50	7.62	7.70	7.90	8.09	8.26	8.44	8.47	8.65	8.73	8.92	1.5%
Biomass	1.90	1.96	1.87	1.86	1.85	1.84	1.79	1.80	1.78	1.80	1.79	1.70	1.58	-0.7%
Emissions 12/														
Total Carbon (million tons)	53.91	54.83	56.07	57.00	57.89	59.13	60.26	61.33	62.31	63.03	63.98	64.15	64.53	0.9%
Carbon Dioxide (million tons)	197.67	201.04	205.58	209.01	212.25	216.81	220.94	224.89	228.48	231.13	234.59	235.21	236.59	0.9%
Sulfur Dioxide (million tons)	0.25	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	-2.0%
Nitrogen Oxide (million tons)	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	-0.6%
Mercury (tons)	2.49	2.48	2.43	2.28	2.05	1.68	1.64	1.65	1.63	1.64	1.64	1.62	1.58	-3.9%

Table 71. Electric Power Projections for EMM Region
Southwest Power Pool - 10

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	11.28	11.39	11.39	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.59
Oil and Natural Gas Steam 2/	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.76	0.76	0.76
Combined Cycle	5.22	5.47	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13
Combustion Turbine/Diesel	2.08	2.14	2.13	2.13	2.13	2.13	2.13	1.76	1.76	1.76	1.76	1.76	1.76
Nuclear Power	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Pumped Storage/Other 3/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	35.73	36.42	37.02	38.31	38.31	38.32	38.32	38.33	38.46	38.47	38.47	38.48	38.52
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	56.53	57.63	58.88	60.38	60.38	60.38	60.39	60.01	60.14	60.15	60.16	60.16	60.20
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.64	1.93	1.93	1.94	1.94	1.95	1.95	1.96	1.96	1.97	1.97
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.26	2.75	2.76	2.76	2.77	2.77	2.77	2.78	2.79	2.79	2.80
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.13	0.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.13	0.16
Cumulative Total Additions	0.00	0.00	1.26	2.75	2.76	2.76	2.77	2.77	2.90	2.91	2.91	2.92	2.96

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.38	0.38	0.38	0.38	0.38
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.39	0.39	0.39
End-Use Sectors 8/													
Coal	0.28	0.28	0.31	0.31	0.21	0.21	0.52	0.52	0.52	0.52	0.64	0.75	0.87
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.18	0.16	0.18	0.18	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.25	0.26
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.45	0.45	0.46	0.46	0.47	0.49	0.50	0.51	0.52	0.52	0.55	0.56	0.57
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	0.99	0.96	1.01	1.02	0.94	0.97	1.31	1.32	1.33	1.35	1.50	1.64	1.77
Electricity Demand (billion kilowatthours)													
Residential	75.15	79.10	81.71	83.69	85.27	86.55	87.60	88.83	86.35	86.41	86.78	87.68	88.25
Commercial/Other	68.70	71.30	74.26	73.82	76.15	77.39	79.01	80.68	82.47	84.37	86.21	88.06	89.81
Industrial	66.01	66.09	67.89	67.85	68.17	69.10	69.88	70.01	69.82	70.07	70.45	70.84	71.09
Transportation	0.27	0.27	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.32
Total Sales	210.13	216.77	224.14	225.65	229.88	233.33	236.78	239.82	238.95	241.16	243.75	246.89	249.47
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	7.93	5.24	8.56	9.28	10.15	9.08	6.14	8.95	10.25	9.85	6.19	5.63	5.34
Gross International Exports	6.48	12.36	6.99	6.53	5.90	5.79	5.72	5.66	5.59	5.52	5.46	5.40	5.33
Gross Interregional Electricity Imports	16.26	15.23	16.25	16.06	15.38	14.83	14.83	14.83	13.39	12.08	10.67	9.23	7.78
Gross Interregional Electricity Exports	25.46	26.85	24.47	32.58	40.95	41.96	40.78	40.44	42.99	39.78	34.09	28.65	24.07
Purchases from Combined Heat and Power 8/	1.37	1.40	1.39	1.40	1.33	1.39	2.16	2.19	2.20	2.21	2.70	2.99	3.28
Electric Power Sector Generation for Custome	239.88	255.43	249.94	258.29	270.39	276.11	280.22	279.72	280.85	281.10	282.16	281.75	281.33
Total Net Energy for Load	233.51	238.10	244.68	245.92	250.42	253.65	256.85	259.60	258.11	259.94	262.18	265.55	268.33
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	81.97	74.92	77.80	77.90	78.60	79.11	79.35	79.60	79.84	80.09	80.35	79.54	79.83
Petroleum	0.54	0.50	0.26	0.26	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.31
Natural Gas	23.78	24.58	32.91	31.57	31.57	31.57	30.21	29.46	29.46	29.46	30.22	29.47	28.57
Nuclear	8.24	9.33	8.90	8.93	8.91	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97
Pumped Storage/Other 9/	0.45	0.51	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Renewable Sources 10/	125.43	146.08	130.33	139.89	151.30	156.44	161.66	161.67	162.55	162.55	162.60	163.73	163.92
Total Generation	240.41	255.92	250.32	258.67	270.78	276.49	280.61	280.11	281.23	281.49	282.55	282.14	281.72
Sales to Customers	239.88	255.43	249.94	258.29	270.39	276.11	280.22	279.72	280.85	281.10	282.16	281.75	281.33
Generation for Own Use	0.53	0.49	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	1.39	1.48	1.49	1.49	1.18	1.18	3.50	3.50	3.50	3.50	4.37	5.24	6.11
Petroleum	0.03	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Natural Gas	0.94	0.97	1.05	1.10	1.19	1.24	1.29	1.35	1.40	1.46	1.53	1.59	1.66
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 10/	2.27	2.25	2.27	2.28	2.30	2.42	2.52	2.57	2.59	2.63	2.88	2.92	2.97
Other	0.39	0.41	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Total	5.01	5.13	4.95	5.01	4.83	5.00	7.48	7.58	7.66	7.75	8.93	9.92	10.90
Sales to Utilities	1.37	1.40	1.39	1.40	1.33	1.39	2.16	2.19	2.20	2.21	2.70	2.99	3.28
Generation for Own Use	3.64	3.73	3.56	3.61	3.50	3.62	5.31	5.39	5.46	5.54	6.23	6.93	7.63
Total Electricity Generation	245.43	261.05	255.27	263.68	275.61	281.49	288.09	287.69	288.90	289.25	291.49	292.06	292.62
End-Use Prices (2006 cents per kilowatthour)													
Residential	7.3	7.3	7.0	7.2	7.4	7.3	7.2	7.1	7.2	7.2	7.3	7.3	7.4
Commercial	6.8	6.8	6.3	6.5	6.4	6.3	6.2	6.1	6.0	6.1	6.1	6.1	6.1
Industrial	4.7	4.6	4.6	4.8	4.8	4.8	4.7	4.6	4.6	4.6	4.6	4.6	4.6
Transportation	6.1	5.8	5.8	6.1	6.0	5.9	5.8	5.7	5.7	5.7	5.7	5.7	5.8
All Sectors Average	6.3	6.3	6.0	6.3	6.3	6.2	6.1	6.0	6.0	6.0	6.1	6.1	6.2
Prices by Service Category (2006 cents per kilowatthour)													
Generation	3.6	3.6	3.4	3.7	3.6	3.5	3.4	3.3	3.2	3.2	3.3	3.3	3.3
Transmission	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Distribution	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Fuel Consumption (quadrillion Btu) 11/													
Coal	0.88	0.80	0.84	0.84	0.85	0.85	0.86	0.86	0.86	0.86	0.87	0.86	0.86
Natural Gas	0.19	0.20	0.27	0.26	0.25	0.25	0.24	0.23	0.23	0.23	0.24	0.23	0.23
Oil	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.08	1.01	1.12	1.10	1.11	1.11	1.10	1.10	1.10	1.10	1.11	1.10	1.09
Fuel Prices (dollars per million Btu)													
Coal	1.18	1.14	1.19	1.22	1.29	1.31	1.31	1.28	1.28	1.28	1.28	1.27	1.27
Natural Gas	6.69	5.75	6.63	7.13	7.17	6.77	6.42	6.21	5.92	5.74	5.66	5.65	5.75
Distillate Fuel Oil	13.28	14.04	16.09	18.48	14.17	13.59	12.95	12.42	11.95	11.67	11.15	10.81	10.86
Residual Fuel Oil	8.47	9.65	10.22	12.39	10.79	9.98	9.44	8.03	7.64	7.49	7.03	6.73	6.72
Biomass	1.89	1.87	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	2.11	2.04	2.04
Emissions 12/													
Total Carbon (million tons)	29.08	28.35	28.92	28.69	28.83	28.83	28.71	28.70	28.78	28.87	29.05	28.70	28.69
Carbon Dioxide (million tons)	106.63	103.96	106.04	105.19	105.70	105.71	105.27	105.24	105.54	105.85	106.52	105.25	105.19
Sulfur Dioxide (million tons)	0.10	0.10	0.11	0.10	0.10	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10
Nitrogen Oxide (million tons)	0.18	0.17	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15
Mercury (tons)	1.77	1.64	1.52	1.62	1.68	1.52	1.51	1.40	1.43	1.39	1.32	1.27	1.27

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	11.59	11.59	11.59	11.77	12.52	13.29	14.07	14.70	15.29	16.01	16.78	17.52	18.22	2.0%
Oil and Natural Gas Steam 2/	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	-0.1%
Combined Cycle	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	0.5%
Combustion Turbine/Diesel	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	-0.8%
Nuclear Power	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.0%
Pumped Storage/Other 3/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	38.64	38.64	40.12	40.12	40.32	40.48	40.62	40.94	41.12	41.26	41.36	41.42	41.65	0.6%
Distributed Generation 5/	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.45	0.49	0.53	--
Total Capacity	60.36	60.40	61.92	62.14	63.13	64.11	65.07	66.05	66.86	67.77	68.68	69.52	70.49	0.8%
Cumulative Planned Additions 6/														
Coal	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.98	1.99	1.99	2.00	2.01	2.01	2.02	2.02	2.03	2.04	2.04	2.05	2.06	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	2.80	2.81	2.82	2.82	2.83	2.84	2.84	2.85	2.86	2.86	2.87	2.87	2.88	--
Cumulative Unplanned Additions 6/														
Coal	0.00	0.00	0.00	0.18	0.93	1.70	2.48	3.11	3.70	4.42	5.19	5.93	6.63	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.28	0.28	1.74	1.74	1.93	2.09	2.22	2.54	2.71	2.85	2.94	2.99	3.21	--
Distributed Generation 5/	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.45	0.49	0.53	--
Total Unplanned Additions	0.32	0.35	1.86	2.08	3.06	4.03	4.99	5.97	6.76	7.67	8.58	9.41	10.37	--
Cumulative Total Additions	3.12	3.16	4.68	4.90	5.89	6.87	7.83	8.81	9.62	10.53	11.44	12.28	13.25	--

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	--
End-Use Sectors 8/														
Coal	1.23	1.37	1.46	1.57	1.57	1.79	1.79	1.78	1.97	2.11	2.54	2.82	2.82	10.1%
Petroleum	0.13	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	9.8%
Natural Gas	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.35	0.36	0.37	0.38	0.39	0.40	3.8%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.64	0.66	0.70	0.73	0.75	0.76	0.77	0.80	0.81	0.83	0.85	0.87	0.89	2.9%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Total	2.33	2.48	2.61	2.77	2.80	3.04	3.07	3.10	3.31	3.48	3.94	4.25	4.28	6.4%
Electricity Demand (billion kilowatthours)														
Residential	89.11	89.89	90.42	90.89	91.82	92.84	94.13	95.04	96.28	97.56	99.04	100.04	101.33	1.0%
Commercial/Other	91.56	93.28	95.03	96.89	98.68	100.46	102.22	103.97	105.76	107.60	109.45	111.28	113.15	1.9%
Industrial	71.26	71.01	70.77	70.91	70.90	71.06	71.17	71.29	71.54	71.74	71.88	72.08	72.34	0.4%
Transportation	0.32	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.37	0.38	1.4%
Total Sales	252.25	254.50	256.56	259.02	261.75	264.71	267.87	270.66	273.94	277.27	280.75	283.77	287.19	1.2%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	5.40	5.28	5.57	4.93	4.82	5.33	5.33	5.33	5.33	5.33	5.33	6.31	6.26	0.7%
Gross International Exports	5.27	5.21	5.14	5.08	5.02	4.76	4.30	4.05	4.05	4.05	4.05	4.05	4.05	-4.5%
Gross Interregional Electricity Imports	6.34	4.90	3.82	1.82	0.75	0.75	0.75	1.09	2.62	4.39	4.59	5.61	6.97	-3.2%
Gross Interregional Electricity Exports	21.84	18.41	11.79	6.94	5.98	11.71	15.14	14.03	17.09	21.73	25.39	30.25	34.36	1.0%
Purchases from Combined Heat and Power 8/	4.40	4.75	5.23	5.64	5.74	6.23	6.19	6.22	6.66	7.00	8.01	8.69	8.71	7.9%
Electric Power Sector Generation for Custome	282.29	282.42	278.27	278.23	281.23	288.89	295.28	296.57	301.17	307.30	313.48	318.91	325.38	1.0%
Total Net Energy for Load	271.32	273.74	275.96	278.61	281.54	284.73	288.13	291.13	294.65	298.24	301.98	305.23	308.91	1.1%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	80.68	80.75	80.22	81.38	87.69	93.83	99.65	103.51	108.32	113.84	119.49	124.97	130.26	2.3%
Petroleum	0.31	0.31	0.32	0.33	0.39	0.44	0.51	0.55	0.60	0.65	0.73	0.79	0.91	2.5%
Natural Gas	28.59	28.40	17.76	16.46	12.77	13.83	13.72	8.63	7.99	8.01	7.98	7.67	7.70	-4.7%
Nuclear	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	-0.2%
Pumped Storage/Other 9/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-5.8%
Renewable Sources 10/	164.02	164.25	171.27	171.36	171.68	172.08	172.70	175.18	175.57	176.11	176.58	176.78	177.82	0.8%
Total Generation	282.68	282.81	278.66	278.63	281.62	289.28	295.67	296.96	301.57	307.69	313.88	319.30	325.77	1.0%
Sales to Customers	282.29	282.42	278.27	278.23	281.23	288.89	295.28	296.57	301.17	307.30	313.48	318.91	325.38	1.0%
Generation for Own Use	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	-0.9%
Distributed Generation 5/	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.18	0.20	0.21	0.23	--

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	8.76	9.84	10.47	11.33	11.33	12.97	12.96	12.90	14.28	15.32	18.53	20.64	20.64	11.6%
Petroleum	0.04	0.32	0.74	0.85	0.85	0.85	0.89	0.89	0.89	0.89	0.89	0.89	0.89	16.2%
Natural Gas	1.73	1.82	1.91	2.00	2.08	2.16	2.24	2.31	2.39	2.47	2.54	2.62	2.70	4.4%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 10/	3.49	3.55	3.87	4.06	4.20	4.24	4.26	4.39	4.45	4.53	4.61	4.68	4.77	3.2%
Other	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-5.0%
Total	14.14	15.64	17.11	18.36	18.58	20.34	20.47	20.63	22.14	23.33	26.69	28.96	29.12	7.5%
Sales to Utilities	4.40	4.75	5.23	5.64	5.74	6.23	6.19	6.22	6.66	7.00	8.01	8.69	8.71	7.9%
Generation for Own Use	9.75	10.89	11.88	12.72	12.85	14.11	14.27	14.41	15.48	16.33	18.68	20.27	20.41	7.3%
Total Electricity Generation	296.84	298.49	295.82	297.06	300.29	309.72	316.26	317.73	323.86	331.20	340.76	348.48	355.12	1.3%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	7.5	7.6	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.2	8.2	8.3	8.4	0.5%
Commercial	6.2	6.3	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.7	6.8	6.9	0.0%
Industrial	4.7	4.7	4.7	4.7	4.8	4.8	4.9	4.9	5.0	5.0	5.0	5.1	5.1	0.5%
Transportation	5.9	5.9	5.9	5.9	6.0	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.4	0.4%
All Sectors Average	6.3	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9	7.0	0.4%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	3.4	3.5	3.5	3.5	3.6	3.6	3.7	3.8	3.8	3.9	3.9	4.0	4.0	0.4%
Transmission	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1%
Distribution	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0%
Fuel Consumption (quadrillion Btu) 11/														
Coal	0.87	0.87	0.87	0.88	0.93	0.99	1.04	1.07	1.12	1.16	1.21	1.26	1.31	2.1%
Natural Gas	0.23	0.23	0.15	0.14	0.11	0.12	0.12	0.08	0.08	0.08	0.08	0.07	0.07	-4.1%
Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.2%
Total	1.10	1.10	1.02	1.02	1.05	1.11	1.16	1.16	1.20	1.25	1.30	1.34	1.39	1.3%
Fuel Prices (dollars per million Btu)														
Coal	1.27	1.27	1.28	1.28	1.29	1.31	1.37	1.40	1.42	1.43	1.45	1.47	1.49	1.1%
Natural Gas	5.84	5.89	5.64	5.48	5.60	5.75	5.92	6.09	6.27	6.38	6.58	6.79	6.98	0.8%
Distillate Fuel Oil	11.06	11.27	11.51	11.60	11.74	12.02	12.36	12.53	12.84	13.05	13.20	13.48	13.58	-0.1%
Residual Fuel Oil	6.85	7.12	7.35	7.47	7.55	7.76	7.95	8.12	8.29	8.32	8.50	8.58	8.77	-0.4%
Biomass	2.07	2.06	2.01	1.99	2.00	2.04	2.04	1.96	1.98	1.99	2.00	2.01	1.89	0.0%
Emissions 12/														
Total Carbon (million tons)	28.96	28.96	27.54	27.69	28.92	30.64	32.13	32.48	33.67	35.11	36.57	37.95	39.33	1.4%
Carbon Dioxide (million tons)	106.18	106.20	100.98	101.52	106.03	112.35	117.79	119.10	123.47	128.73	134.07	139.14	144.21	1.4%
Sulfur Dioxide (million tons)	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.13	0.13	1.0%
Nitrogen Oxide (million tons)	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.1%
Mercury (tons)	1.30	1.31	1.29	1.28	1.32	1.35	1.34	1.34	1.32	1.32	1.30	1.23	1.01	-2.0%

Table 72. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 73. Electric Power Projections for EMM Region
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	16.43	16.83	16.90	16.90	18.05	18.05	18.49	18.49	18.49	18.49	18.49	18.78	19.91
Oil and Natural Gas Steam 2/	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.09	3.09	3.09	3.09	3.09	3.09
Combined Cycle	14.98	17.02	17.65	17.82	18.32	18.59	19.24	20.10	20.10	20.10	20.10	20.10	20.10
Combustion Turbine/Diesel	5.06	5.28	5.55	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
Nuclear Power	2.81	2.81	2.84	2.84	2.84	2.84	2.88	2.88	2.88	2.88	2.88	2.88	2.88
Pumped Storage/Other 3/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	6.12	6.29	7.24	7.30	7.30	7.31	7.36	7.37	7.37	7.37	7.38	7.38	7.47
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	49.30	52.12	54.07	55.00	56.65	56.92	58.12	58.95	58.96	58.96	58.97	59.25	60.48
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.07	0.07	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.63	0.80	1.30	1.57	2.22	3.08	3.08	3.08	3.08	3.08	3.08
Combustion Turbine/Diesel	0.00	0.00	0.27	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	1.00	1.05	1.06	1.06	1.07	1.07	1.08	1.08	1.08	1.09	1.09
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.93	2.85	4.51	4.78	5.44	6.30	6.31	6.31	6.31	6.32	6.32
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.44	0.44	0.73	1.86
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.14
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.77	2.00
Cumulative Total Additions	0.00	0.00	1.93	2.85	4.51	4.78	5.93	6.79	6.80	6.80	6.81	7.09	8.32

Table 73. Electric Power Projections for EMM Region
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03
End-Use Sectors 8/													
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Petroleum	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.25	0.19	0.21	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.37	0.39	0.42
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.01	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.33	0.28	0.31	0.33	0.36	0.38	0.40	0.42	0.44	0.47	0.49	0.52	0.55
Electricity Demand (billion kilowatthours)													
Residential	64.74	68.81	70.72	71.98	73.91	75.58	77.02	78.68	77.55	78.31	79.31	80.71	81.83
Commercial/Other	64.29	67.12	67.97	67.47	69.85	71.13	72.82	74.61	76.50	78.50	80.45	82.38	84.21
Industrial	39.33	40.65	41.12	42.39	39.24	39.84	40.34	40.42	40.33	40.43	40.66	40.90	41.03
Transportation	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07
Total Sales	168.41	176.65	179.86	181.90	183.06	186.61	190.25	193.77	194.45	197.30	200.48	204.07	207.14
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	12.76	13.18	11.99	9.61	9.37	6.32	6.41	6.27	6.91	8.32	8.90	13.07	14.22
Gross Interregional Electricity Exports	48.48	51.80	51.50	60.21	55.39	56.45	56.38	58.10	55.99	55.78	54.61	54.14	54.41
Purchases from Combined Heat and Power 8/	0.19	0.18	0.19	0.21	0.24	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47
Electric Power Sector Generation for Custome	215.35	212.39	235.68	248.66	245.22	252.75	256.08	261.29	258.80	259.77	260.96	260.15	262.54
Total Net Energy for Load	179.81	173.95	196.36	198.26	199.44	202.89	206.40	209.78	210.06	212.69	215.66	219.52	222.82
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	120.75	117.08	122.94	122.62	124.84	130.19	136.21	136.74	137.18	137.28	135.43	137.06	144.76
Petroleum	0.12	0.15	0.51	0.50	0.52	0.54	0.60	0.58	0.58	0.58	0.58	0.60	0.68
Natural Gas	64.21	64.92	77.14	88.37	81.71	83.37	79.97	84.66	81.72	82.58	83.65	80.85	74.91
Nuclear	18.73	17.43	22.73	22.37	22.37	22.37	22.67	22.67	22.67	22.67	22.67	22.67	22.67
Pumped Storage/Other 9/	0.14	0.18	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Renewable Sources 10/	14.74	16.23	16.59	19.04	20.02	20.52	20.86	20.87	20.88	20.89	22.86	23.21	23.76
Total Generation	218.70	215.98	239.78	252.76	249.32	256.85	260.18	265.39	262.90	263.88	265.06	264.25	266.64
Sales to Customers	215.35	212.39	235.68	248.66	245.22	252.75	256.08	261.29	258.80	259.77	260.96	260.15	262.54
Generation for Own Use	3.35	3.60	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 73. Electric Power Projections for EMM Region
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Petroleum	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.63	0.69	0.85	0.97	1.12	1.27	1.42	1.57	1.73	1.90	2.07	2.26	2.46
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Renewable Sources 10/	0.03	0.04	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.11	0.11
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.03	1.12	1.30	1.43	1.61	1.76	1.92	2.07	2.23	2.40	2.58	2.78	2.98
Sales to Utilities	0.19	0.18	0.19	0.21	0.24	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47
Generation for Own Use	0.84	0.93	1.11	1.22	1.37	1.50	1.62	1.75	1.89	2.02	2.18	2.34	2.51
Total Electricity Generation	219.73	217.10	241.08	254.19	250.93	258.61	262.10	267.47	265.13	266.28	267.65	267.03	269.62
End-Use Prices (2006 cents per kilowatthour)													
Residential	9.5	9.6	10.7	11.1	11.3	11.1	10.9	10.7	10.7	10.7	10.8	10.9	11.0
Commercial	8.1	8.1	8.6	8.7	8.8	8.6	8.3	8.0	7.9	7.8	7.8	7.8	7.8
Industrial	6.4	6.5	6.9	7.2	7.2	7.0	6.7	6.6	6.4	6.3	6.3	6.3	6.3
Transportation	8.0	7.8	7.8	8.3	8.3	8.2	8.0	7.9	7.7	7.7	7.7	7.7	7.7
All Sectors Average	8.2	8.3	9.0	9.3	9.5	9.3	9.0	8.8	8.7	8.6	8.7	8.7	8.8
Prices by Service Category (2006 cents per kilowatthour)													
Generation	5.7	5.8	6.5	6.7	6.8	6.5	6.2	6.0	5.8	5.7	5.6	5.7	5.7
Transmission	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9
Distribution	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2
Fuel Consumption (quadrillion Btu) 11/													
Coal	1.27	1.25	1.31	1.31	1.33	1.38	1.44	1.45	1.45	1.45	1.43	1.45	1.52
Natural Gas	0.52	0.53	0.64	0.72	0.66	0.66	0.63	0.67	0.64	0.65	0.66	0.64	0.59
Oil	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.79	1.78	1.96	2.04	2.00	2.05	2.08	2.12	2.10	2.11	2.10	2.09	2.11
Fuel Prices (dollars per million Btu)													
Coal	1.38	1.43	1.44	1.47	1.49	1.50	1.51	1.50	1.50	1.50	1.49	1.49	1.49
Natural Gas	7.56	6.22	6.92	7.25	7.28	6.84	6.49	6.35	6.10	6.00	5.93	5.89	5.93
Distillate Fuel Oil	12.72	13.44	16.33	18.60	14.91	14.10	13.64	12.87	12.17	11.88	11.28	10.85	10.88
Residual Fuel Oil	7.99	9.19	9.73	11.79	10.84	10.03	9.49	8.09	7.71	7.55	7.10	6.79	6.78
Biomass	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Emissions 12/													
Total Carbon (million tons)	46.95	47.22	48.24	49.47	49.06	50.66	51.84	52.53	52.28	52.43	51.99	52.04	53.26
Carbon Dioxide (million tons)	172.17	173.13	176.88	181.37	179.90	185.74	190.09	192.60	191.69	192.25	190.64	190.83	195.30
Sulfur Dioxide (million tons)	0.14	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10
Nitrogen Oxide (million tons)	0.27	0.25	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Mercury (tons)	2.08	1.84	2.00	1.96	2.05	1.79	1.88	1.64	1.71	1.68	1.65	1.52	1.52

Table 73. Electric Power Projections for EMM Region
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	21.20	22.42	23.91	25.32	26.50	27.76	29.06	30.38	31.67	32.92	34.05	35.03	35.97	3.2%
Oil and Natural Gas Steam 2/	3.09	2.93	2.81	2.70	2.69	2.69	2.61	2.50	2.50	2.50	2.50	2.50	2.50	-0.9%
Combined Cycle	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	0.7%
Combustion Turbine/Diesel	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.41	6.59	6.80	1.1%
Nuclear Power	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	0.1%
Pumped Storage/Other 3/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	7.48	7.62	7.66	7.66	7.70	7.73	7.82	7.90	7.90	7.90	7.91	7.91	7.97	1.0%
Distributed Generation 5/	0.00	0.00	0.00	0.02	0.05	0.07	0.09	0.12	0.18	0.25	0.40	0.60	0.81	--
Total Capacity	61.78	62.97	64.39	65.71	66.94	68.26	69.60	70.90	72.25	73.58	75.03	76.38	77.81	1.7%
Cumulative Planned Additions 6/														
Coal	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	--
Combustion Turbine/Diesel	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.09	1.10	1.10	1.10	1.11	1.11	1.11	1.12	1.12	1.13	1.13	1.13	1.14	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	6.32	6.33	6.33	6.33	6.34	6.34	6.34	6.35	6.35	6.36	6.36	6.36	6.37	--
Cumulative Unplanned Additions 6/														
Coal	3.15	4.37	5.87	7.27	8.45	9.71	11.01	12.33	13.62	14.87	16.00	16.98	17.92	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.34	0.56	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.14	0.28	0.31	0.31	0.35	0.38	0.46	0.53	0.53	0.53	0.53	0.53	0.59	--
Distributed Generation 5/	0.00	0.00	0.00	0.02	0.05	0.07	0.09	0.12	0.18	0.25	0.40	0.60	0.81	--
Total Unplanned Additions	3.29	4.64	6.18	7.61	8.85	10.15	11.57	12.98	14.33	15.65	17.10	18.45	19.87	--
Cumulative Total Additions	9.62	10.97	12.51	13.94	15.18	16.50	17.92	19.33	20.68	22.01	23.45	24.81	26.24	--

Table 73. Electric Power Projections for EMM Region
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	0.03	0.19	0.31	0.42	0.42	0.42	0.50	0.61	0.61	0.61	0.61	0.61	0.61	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.03	0.19	0.31	0.42	0.42	0.42	0.50	0.61	0.61	0.61	0.61	0.61	0.61	--
End-Use Sectors 8/														
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Petroleum	0.10	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	13.3%
Natural Gas	0.46	0.49	0.52	0.55	0.58	0.61	0.64	0.66	0.69	0.72	0.75	0.78	0.81	6.2%
Other Gaseous Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.15	0.17	0.18	0.20	11.0%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.69	0.71	0.74	0.78	0.82	0.86	0.90	0.94	0.99	1.03	1.07	1.12	1.17	6.1%
Electricity Demand (billion kilowatthours)														
Residential	83.16	84.40	85.50	86.54	87.89	89.30	90.95	92.27	93.91	95.60	97.46	98.91	100.65	1.6%
Commercial/Other	86.05	87.82	89.66	91.61	93.43	95.19	96.95	98.71	100.52	102.43	104.38	106.34	108.40	2.0%
Industrial	41.14	40.89	40.58	40.60	40.61	40.67	40.69	40.78	40.89	41.08	41.17	41.27	41.43	0.1%
Transportation	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	1.9%
Total Sales	210.42	213.18	215.82	218.82	222.01	225.24	228.67	231.84	235.42	239.19	243.10	246.61	250.56	1.5%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Gross Interregional Electricity Imports	12.10	6.24	5.02	2.24	2.70	3.99	4.05	5.36	5.88	5.66	5.87	5.42	5.19	-3.8%
Gross Interregional Electricity Exports	52.81	51.50	52.49	52.99	50.02	49.00	50.32	52.80	54.15	57.48	59.70	62.35	66.10	1.0%
Purchases from Combined Heat and Power 8/	0.51	0.54	0.59	0.62	0.66	0.70	0.73	0.77	0.80	0.83	0.87	0.90	0.94	7.0%
Electric Power Sector Generation for Custome	266.55	274.04	279.04	285.51	285.48	286.61	291.52	296.07	300.70	308.28	314.48	321.30	329.50	1.8%
Total Net Energy for Load	226.35	229.32	232.16	235.39	238.81	242.30	245.98	249.39	253.24	257.30	261.51	265.27	269.53	1.8%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	153.85	163.25	172.30	182.41	190.13	198.81	208.21	217.87	227.07	236.09	244.12	251.05	258.09	3.3%
Petroleum	0.80	0.90	1.01	1.19	1.28	1.37	1.47	1.57	1.67	1.76	1.87	1.97	2.04	11.6%
Natural Gas	69.15	66.58	59.91	55.93	46.99	38.70	33.42	27.76	22.85	21.07	18.84	18.40	19.22	-4.9%
Nuclear	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	1.1%
Pumped Storage/Other 9/	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	--
Renewable Sources 10/	24.32	24.88	27.38	27.55	28.64	29.30	29.99	30.43	30.68	30.94	31.21	31.45	31.72	2.8%
Total Generation	270.66	278.14	283.14	289.62	289.58	290.71	295.62	300.17	304.81	312.39	318.58	325.40	333.60	1.8%
Sales to Customers	266.55	274.04	279.04	285.51	285.48	286.61	291.52	296.07	300.70	308.28	314.48	321.30	329.50	1.8%
Generation for Own Use	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	0.6%
Distributed Generation 5/	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.08	0.11	0.18	0.26	0.35	--

Table 73. Electric Power Projections for EMM Region
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.0%
Petroleum	0.01	0.23	0.57	0.66	0.66	0.66	0.69	0.69	0.69	0.69	0.69	0.69	0.69	30.6%
Natural Gas	2.66	2.91	3.19	3.43	3.66	3.88	4.10	4.32	4.53	4.74	4.95	5.16	5.38	8.9%
Other Gaseous Fuels	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	--
Renewable Sources 10/	0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.23	0.26	0.30	0.33	0.37	0.41	10.4%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	3.19	3.67	4.31	4.66	4.90	5.14	5.41	5.65	5.90	6.14	6.38	6.63	6.88	7.9%
Sales to Utilities	0.51	0.54	0.59	0.62	0.66	0.70	0.73	0.77	0.80	0.83	0.87	0.90	0.94	7.0%
Generation for Own Use	2.69	3.13	3.72	4.03	4.24	4.44	4.68	4.89	5.10	5.30	5.51	5.73	5.95	8.0%
Total Electricity Generation	273.85	281.81	287.45	294.28	294.50	295.89	301.07	305.88	310.78	318.63	325.14	332.29	340.84	1.9%
End-Use Prices (2006 cents per kilowatthour)														
Residential	11.1	11.2	11.1	11.0	11.2	11.4	11.4	11.6	11.7	11.7	11.7	11.8	11.7	0.8%
Commercial	7.9	7.9	7.8	7.6	7.7	7.8	7.8	7.9	8.0	8.0	8.0	8.0	8.0	-0.1%
Industrial	6.3	6.4	6.3	6.1	6.2	6.3	6.3	6.4	6.4	6.4	6.4	6.5	6.4	-0.1%
Transportation	7.8	7.9	7.8	7.6	7.7	7.4	7.5	7.6	7.7	7.7	7.8	7.8	7.7	0.0%
All Sectors Average	8.8	8.9	8.8	8.7	8.8	8.9	9.0	9.1	9.2	9.2	9.2	9.3	9.2	0.4%
Prices by Service Category (2006 cents per kilowatthour)														
Generation	5.7	5.7	5.6	5.4	5.5	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.7	0.0%
Transmission	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.8%
Distribution	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.7%
Fuel Consumption (quadrillion Btu) 11/														
Coal	1.60	1.68	1.76	1.85	1.91	1.99	2.07	2.16	2.24	2.32	2.39	2.44	2.51	3.0%
Natural Gas	0.55	0.53	0.48	0.45	0.38	0.31	0.28	0.23	0.20	0.18	0.17	0.16	0.17	-4.6%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	10.8%
Total	2.15	2.22	2.24	2.31	2.31	2.32	2.36	2.40	2.45	2.52	2.57	2.63	2.70	1.7%
Fuel Prices (dollars per million Btu)														
Coal	1.50	1.51	1.51	1.52	1.53	1.55	1.57	1.59	1.60	1.62	1.63	1.64	1.65	0.6%
Natural Gas	5.95	6.00	5.67	5.38	5.49	5.68	5.84	6.01	6.19	6.33	6.55	6.78	6.98	0.5%
Distillate Fuel Oil	11.01	11.15	11.37	11.42	11.60	11.86	12.22	12.40	12.71	12.87	13.03	13.31	13.44	0.0%
Residual Fuel Oil	6.91	7.18	7.55	7.67	7.75	7.96	8.15	8.32	8.49	8.52	8.70	8.79	8.98	-0.1%
Biomass	1.87	1.87	1.86	1.84	1.85	1.83	1.84	1.88	1.85	1.86	1.86	1.89	1.84	-0.1%
Emissions 12/														
Total Carbon (million tons)	54.84	56.88	58.29	60.42	61.18	62.31	64.03	65.74	67.44	69.46	71.22	72.85	74.67	1.9%
Carbon Dioxide (million tons)	201.10	208.56	213.73	221.54	224.31	228.49	234.78	241.05	247.28	254.70	261.12	267.13	273.79	1.9%
Sulfur Dioxide (million tons)	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.13	0.12	0.13	0.12	0.14	0.6%
Nitrogen Oxide (million tons)	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.7%
Mercury (tons)	1.35	1.36	1.29	1.15	1.11	1.06	1.01	1.01	1.00	1.01	0.99	0.89	0.89	-3.0%

Table 73. Electric Power Projections for EMM Region

Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31
Oil and Natural Gas Steam 2/	15.96	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58
Combined Cycle	12.88	14.05	14.80	14.80	15.87	15.87	15.87	15.87	15.87	15.87	16.00	16.60	17.21
Combustion Turbine/Diesel	6.09	6.14	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.89	6.99	7.08
Nuclear Power	5.45	5.45	5.46	5.46	5.46	5.46	5.48	5.48	5.48	5.48	5.48	5.48	5.48
Pumped Storage/Other 3/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	15.08	15.32	15.36	15.59	15.89	16.40	16.60	16.78	16.91	17.05	17.10	17.16	17.26
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.11	0.16	0.21	0.25	0.29	0.44	0.59	0.72
Total Capacity	63.46	64.53	65.76	66.00	67.43	67.98	68.25	68.48	68.65	68.83	69.48	70.39	71.33
Cumulative Planned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.76	0.76	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
Combustion Turbine/Diesel	0.00	0.00	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.08	0.31	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.22	1.46	2.57	2.57	2.58	2.58	2.59	2.59	2.60	2.60	2.61
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.73	1.34
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.42	0.51
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.25	0.76	0.95	1.13	1.26	1.39	1.44	1.49	1.59
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.11	0.16	0.21	0.25	0.29	0.44	0.59	0.72
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.32	0.87	1.11	1.34	1.50	1.68	2.33	3.23	4.17
Cumulative Total Additions	0.00	0.00	1.22	1.46	2.89	3.44	3.69	3.92	4.09	4.27	4.92	5.83	6.77

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-Use Sectors 8/													
Coal	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Petroleum	0.13	0.16	0.10	0.10	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Natural Gas	2.19	2.15	2.36	2.39	2.52	2.56	2.59	2.63	2.67	2.71	2.76	2.80	2.85
Other Gaseous Fuels	0.25	0.14	0.03	0.03	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Renewable Sources 4/	0.41	0.48	0.62	0.72	0.73	0.78	0.79	0.80	0.81	0.82	0.86	0.91	0.95
Other	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.10	3.02	3.20	3.33	3.77	3.85	3.90	3.94	3.99	4.05	4.13	4.22	4.31
Electricity Demand (billion kilowatthours)													
Residential	83.02	87.66	85.74	88.07	89.39	90.40	91.17	92.10	88.92	88.56	88.54	89.11	89.35
Commercial/Other	116.25	121.20	120.74	120.21	123.61	125.44	127.82	130.24	132.84	135.62	138.32	141.04	143.60
Industrial	49.35	48.41	46.81	45.23	49.35	49.98	50.52	50.61	50.47	50.70	50.96	51.20	51.40
Transportation	0.46	0.48	0.47	0.48	0.49	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.53
Total Sales	249.08	257.74	253.76	253.99	262.83	266.31	270.00	273.46	272.74	275.40	278.34	281.88	284.88
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	1.50	0.80	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Gross International Exports	0.10	0.60	0.50	0.40	0.40	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Gross Interregional Electricity Imports	51.67	50.78	59.21	75.85	79.19	81.60	80.01	81.43	83.27	81.31	75.99	67.64	63.09
Gross Interregional Electricity Exports	6.64	3.30	3.28	3.28	3.61	3.34	3.34	3.35	3.57	3.81	4.06	4.18	3.55
Purchases from Combined Heat and Power 8/	10.45	10.65	10.38	10.43	10.85	10.90	10.95	10.99	11.04	11.08	11.13	11.19	11.24
Electric Power Sector Generation for Custome	210.74	219.79	211.16	194.15	200.23	200.58	205.52	207.19	204.11	208.48	216.47	228.64	235.68
Total Net Energy for Load	267.62	278.12	278.16	277.94	287.46	290.64	294.04	297.15	295.74	297.96	300.44	304.18	307.35
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	30.88	24.62	27.01	27.11	27.55	27.98	32.12	32.14	32.18	32.20	32.23	32.26	32.28
Petroleum	2.06	1.86	0.07	0.07	0.08	0.08	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Natural Gas	77.21	88.03	87.04	68.33	71.08	67.20	65.85	66.23	62.46	66.14	73.72	85.75	92.18
Nuclear	43.23	38.54	43.18	43.02	42.95	42.99	43.10	43.10	43.10	43.10	43.10	43.10	43.10
Pumped Storage/Other 9/	0.85	0.82	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Renewable Sources 10/	58.99	68.48	56.53	58.28	61.24	65.00	66.99	68.26	68.92	69.58	69.96	70.07	70.66
Total Generation	213.21	222.36	213.86	196.85	202.93	203.28	208.22	209.89	206.81	211.18	219.17	231.34	238.38
Sales to Customers	210.74	219.79	211.16	194.15	200.23	200.58	205.52	207.19	204.11	208.48	216.47	228.64	235.68
Generation for Own Use	2.47	2.56	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.21	0.42	0.44	0.44	0.45	0.45	0.46	0.46

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	0.68	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Petroleum	0.61	0.51	0.53	0.53	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Natural Gas	14.53	14.83	15.69	15.93	16.87	17.15	17.43	17.72	18.02	18.32	18.65	18.99	19.36
Other Gaseous Fuels	2.02	1.95	1.81	1.81	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
Renewable Sources 10/	1.66	1.81	2.04	2.21	2.24	2.34	2.37	2.39	2.41	2.43	2.51	2.59	2.67
Other	0.38	0.41	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total	19.89	20.19	21.01	21.42	22.17	22.54	22.85	23.17	23.49	23.82	24.22	24.65	25.09
Sales to Utilities	10.45	10.65	10.38	10.43	10.85	10.90	10.95	10.99	11.04	11.08	11.13	11.19	11.24
Generation for Own Use	9.43	9.54	10.62	10.99	11.32	11.64	11.90	12.17	12.45	12.73	13.09	13.46	13.85
Total Electricity Generation	233.10	242.54	234.87	218.27	225.13	226.03	231.50	233.49	230.74	235.45	243.85	256.44	263.93
End-Use Prices (2006 cents per kilowatthour)													
Residential	12.9	14.5	14.7	14.7	14.7	14.4	13.9	13.6	13.6	13.5	13.5	13.5	13.5
Commercial	12.1	13.0	12.8	13.0	13.0	12.7	12.2	11.9	11.6	11.5	11.4	11.3	11.3
Industrial	9.7	10.1	10.3	10.5	10.5	10.2	9.8	9.5	9.3	9.2	9.2	9.1	9.1
Transportation	12.8	12.1	12.3	12.6	12.6	12.2	11.8	11.5	11.2	11.1	11.0	11.0	10.9
All Sectors Average	11.9	12.9	13.0	13.1	13.1	12.8	12.3	12.0	11.8	11.7	11.7	11.6	11.6
Prices by Service Category (2006 cents per kilowatthour)													
Generation	6.1	7.2	7.3	7.9	7.8	7.5	7.0	6.8	6.6	6.4	6.4	6.4	6.4
Transmission	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
Distribution	5.1	5.1	5.0	4.6	4.7	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5
Fuel Consumption (quadrillion Btu) 11/													
Coal	0.32	0.25	0.28	0.28	0.29	0.29	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Natural Gas	0.69	0.78	0.80	0.65	0.67	0.63	0.62	0.62	0.59	0.62	0.67	0.76	0.81
Oil	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.04	1.05	1.09	0.93	0.95	0.92	0.96	0.96	0.93	0.96	1.02	1.10	1.15
Fuel Prices (dollars per million Btu)													
Coal	1.42	1.47	1.49	1.51	1.54	1.54	1.54	1.53	1.53	1.53	1.52	1.51	1.52
Natural Gas	7.86	6.29	7.43	7.67	7.67	7.23	6.87	6.70	6.42	6.31	6.24	6.16	6.18
Distillate Fuel Oil	13.03	14.12	16.08	18.48	14.23	13.67	13.27	12.63	12.05	11.77	11.21	10.83	10.87
Residual Fuel Oil	8.60	9.65	10.22	12.39	9.17	8.99	8.45	8.36	8.23	8.10	7.70	7.41	7.51
Biomass	1.89	1.87	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	2.14	2.14	2.14
Emissions 12/													
Total Carbon (million tons)	23.39	22.11	20.98	18.53	18.96	18.50	19.63	19.68	19.23	19.69	20.62	22.04	22.76
Carbon Dioxide (million tons)	85.76	81.08	76.94	67.95	69.51	67.84	71.97	72.16	70.52	72.21	75.62	80.81	83.45
Sulfur Dioxide (million tons)	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Nitrogen Oxide (million tons)	0.03	0.03	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Mercury (tons)	0.33	0.24	0.24	0.25	0.26	0.16	0.30	0.22	0.23	0.22	0.22	0.22	0.22

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	0.0%
Oil and Natural Gas Steam 2/	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	0.0%
Combined Cycle	17.87	18.54	19.24	19.98	20.76	21.57	22.37	23.15	23.79	23.79	24.03	24.03	24.03	2.3%
Combustion Turbine/Diesel	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.36	8.28	8.50	9.32	10.11	2.1%
Nuclear Power	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	0.0%
Pumped Storage/Other 3/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	17.37	17.50	17.60	17.71	17.82	17.98	18.14	18.29	18.44	18.50	19.94	20.05	20.11	1.1%
Distributed Generation 5/	0.87	1.00	1.14	1.28	1.43	1.59	1.74	1.88	2.04	2.19	2.35	2.49	2.63	--
Total Capacity	72.31	73.25	74.19	75.18	76.23	77.34	78.47	79.53	80.68	81.81	83.87	84.94	85.94	1.2%
Cumulative Planned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	--
Combustion Turbine/Diesel	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.49	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	2.61	2.62	2.63	2.64	2.64	2.65	2.66	2.67	2.67	2.68	2.69	2.70	2.70	--
Cumulative Unplanned Additions 6/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	2.00	2.67	3.37	4.11	4.89	5.70	6.50	7.28	7.92	7.92	8.16	8.16	8.16	--
Combustion Turbine/Diesel	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.79	1.71	1.94	2.75	3.55	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	1.68	1.81	1.90	2.00	2.11	2.26	2.42	2.56	2.70	2.75	4.18	4.29	4.34	--
Distributed Generation 5/	0.87	1.00	1.14	1.28	1.43	1.59	1.74	1.88	2.04	2.19	2.35	2.49	2.63	--
Total Unplanned Additions	5.14	6.07	7.01	7.98	9.03	10.13	11.25	12.31	13.45	14.57	16.63	17.69	18.67	--
Cumulative Total Additions	7.75	8.69	9.64	10.62	11.67	12.79	13.91	14.98	16.12	17.26	19.32	20.38	21.38	--

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Oil and Natural Gas Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
End-Use Sectors 8/														
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.0%
Petroleum	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	1.2%
Natural Gas	2.90	2.95	3.00	3.06	3.12	3.17	3.23	3.28	3.34	3.39	3.45	3.51	3.57	2.1%
Other Gaseous Fuels	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	1.8%
Renewable Sources 4/	1.00	1.04	1.11	1.17	1.24	1.31	1.38	1.46	1.51	1.57	1.63	1.70	1.77	5.6%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	4.41	4.51	4.63	4.74	4.87	4.99	5.12	5.26	5.36	5.47	5.59	5.72	5.85	2.8%
Electricity Demand (billion kilowatthours)														
Residential	89.89	90.38	90.56	90.67	91.32	92.07	93.11	93.74	94.69	95.69	96.90	97.60	98.57	0.5%
Commercial/Other	146.17	148.73	151.31	154.03	156.73	159.46	162.15	164.82	167.52	170.26	172.95	175.58	178.22	1.6%
Industrial	51.52	51.45	51.49	51.64	51.63	51.77	51.88	51.95	52.15	52.22	52.29	52.45	52.62	0.3%
Transportation	0.54	0.54	0.55	0.55	0.56	0.58	0.59	0.59	0.60	0.60	0.61	0.62	0.63	1.1%
Total Sales	288.12	291.10	293.91	296.90	300.24	303.88	307.72	311.10	314.96	318.77	322.75	326.25	330.04	1.0%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.7%
Gross International Exports	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	-2.8%
Gross Interregional Electricity Imports	62.10	63.22	58.54	55.69	53.32	56.94	62.55	64.01	66.34	72.46	77.11	83.08	89.43	2.4%
Gross Interregional Electricity Exports	2.71	1.12	0.79	0.45	0.15	0.20	0.22	0.24	0.27	0.31	0.28	0.23	0.19	-11.2%
Purchases from Combined Heat and Power 8/	11.30	11.35	11.54	11.66	11.74	11.79	11.82	11.88	11.94	11.99	12.05	12.10	12.17	0.6%
Electric Power Sector Generation for Custome	239.19	239.57	246.70	252.24	257.76	257.99	256.43	258.51	260.24	258.13	257.61	255.24	252.79	0.6%
Total Net Energy for Load	310.77	313.92	316.88	320.03	323.56	327.41	331.48	335.05	339.13	343.17	347.38	351.08	355.09	1.0%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	32.32	32.35	32.37	32.37	32.37	32.37	32.35	32.35	32.35	32.35	32.35	32.35	32.35	1.1%
Petroleum	0.11	0.11	0.11	0.11	0.11	0.11	0.13	0.12	0.12	0.12	0.12	0.12	0.12	-10.9%
Natural Gas	94.95	94.57	101.29	106.18	111.09	110.38	107.87	109.35	110.38	107.80	102.19	99.08	96.14	0.4%
Nuclear	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	0.5%
Pumped Storage/Other 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-12.5%
Renewable Sources 10/	71.37	72.10	72.50	73.14	73.75	74.69	75.64	76.24	76.95	77.42	82.50	83.24	83.74	0.8%
Total Generation	241.89	242.27	249.40	254.94	260.46	260.69	259.13	261.21	262.94	260.83	260.31	257.94	255.49	0.6%
Sales to Customers	239.19	239.57	246.70	252.24	257.76	257.99	256.43	258.51	260.24	258.13	257.61	255.24	252.79	0.6%
Generation for Own Use	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	0.2%
Distributed Generation 5/	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	--

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.0%
Petroleum	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	1.8%
Natural Gas	19.73	20.13	20.53	20.96	21.38	21.80	22.22	22.64	23.06	23.47	23.89	24.33	24.78	2.2%
Other Gaseous Fuels	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	-1.6%
Renewable Sources 10/	2.76	2.85	3.08	3.24	3.39	3.52	3.64	3.80	3.90	4.02	4.14	4.28	4.43	3.8%
Other	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-1.9%
Total	25.55	26.04	26.67	27.26	27.84	28.38	28.92	29.50	30.02	30.55	31.10	31.67	32.27	2.0%
Sales to Utilities	11.30	11.35	11.54	11.66	11.74	11.79	11.82	11.88	11.94	11.99	12.05	12.10	12.17	0.6%
Generation for Own Use	14.26	14.68	15.13	15.60	16.09	16.59	17.10	17.62	18.09	18.56	19.05	19.56	20.10	3.2%
Total Electricity Generation	267.90	268.77	276.53	282.65	288.75	289.53	288.51	291.17	293.42	291.84	291.86	290.06	288.22	0.7%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	13.5	13.5	13.4	13.3	13.3	13.2	13.2	13.3	13.3	13.3	13.4	13.4	13.4	-0.3%
Commercial	11.3	11.2	11.1	11.0	10.9	10.8	10.8	10.9	10.9	10.9	11.0	11.1	11.1	-0.6%
Industrial	9.1	9.0	9.0	8.8	8.8	8.7	8.7	8.7	8.8	8.8	8.8	8.9	8.9	-0.5%
Transportation	10.9	10.8	10.7	10.6	10.5	10.2	10.3	10.3	10.4	10.4	10.5	10.6	10.6	-0.5%
All Sectors Average	11.6	11.5	11.5	11.3	11.3	11.2	11.2	11.2	11.3	11.3	11.4	11.4	11.5	-0.5%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	6.3	6.3	6.3	6.1	6.1	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	-0.3%
Transmission	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.3%
Distribution	4.4	4.4	4.4	4.4	4.4	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	-1.2%
Fuel Consumption (quadrillion Btu) 11/														
Coal	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	1.2%
Natural Gas	0.82	0.81	0.86	0.89	0.92	0.91	0.88	0.89	0.89	0.87	0.83	0.81	0.79	0.0%
Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-11.3%
Total	1.16	1.16	1.20	1.23	1.26	1.25	1.22	1.23	1.23	1.21	1.17	1.15	1.13	0.3%
Fuel Prices (dollars per million Btu)														
Coal	1.52	1.53	1.54	1.55	1.57	1.59	1.61	1.62	1.64	1.65	1.66	1.67	1.68	0.6%
Natural Gas	6.19	6.22	6.07	5.76	5.80	5.94	6.08	6.23	6.40	6.50	6.70	6.89	7.09	0.5%
Distillate Fuel Oil	11.02	11.18	11.40	11.46	11.64	11.91	12.28	12.46	12.76	12.95	13.12	13.40	13.52	-0.2%
Residual Fuel Oil	7.74	7.96	8.25	8.41	8.54	8.80	9.00	9.15	9.41	9.74	9.94	10.14	10.24	0.2%
Biomass	2.14	2.14	2.13	2.12	2.11	2.12	2.12	2.14	2.14	2.15	2.15	2.15	2.03	0.4%
Emissions 12/														
Total Carbon (million tons)	23.03	22.91	23.65	24.16	24.66	24.46	24.03	24.13	24.16	23.89	23.25	22.89	22.56	0.1%
Carbon Dioxide (million tons)	84.43	83.99	86.73	88.59	90.41	89.67	88.12	88.46	88.60	87.60	85.26	83.93	82.71	0.1%
Sulfur Dioxide (million tons)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.2%
Nitrogen Oxide (million tons)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	4.2%
Mercury (tons)	0.18	0.19	0.19	0.18	0.17	0.15	0.12	0.12	0.12	0.11	0.11	0.10	0.09	-3.9%

Table 74. Electric Power Projections for EMM Region
Western Electricity Coordinating Council / California - 13

- 1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.
- 2/ Includes oil-, gas-, and dual-fired capacity.
- 3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
- 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 5/ Primarily peak-load capacity fueled by natural gas.
- 6/ Cumulative additions after December 31, 2006.
- 7/ Generation to meet system load by source.
- 8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
- 9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.
- 10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.
- 11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
- 12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
- O&M = Operation and maintenance.
EMM = Electricity market module.
- - = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding.
- Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 75. Electric Power Projections for EMM Region
United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal	309.70	309.79	311.37	311.23	313.57	316.00	318.63	320.65	321.03	323.46	323.89	325.67	329.09
Oil and Natural Gas Steam 2/	121.16	119.73	118.77	118.38	118.38	118.36	118.27	93.71	93.62	93.62	93.62	93.62	93.62
Combined Cycle	169.28	176.52	181.04	185.88	189.18	190.00	190.66	192.06	192.06	192.06	192.37	193.18	193.96
Combustion Turbine/Diesel	130.32	130.93	133.28	136.41	137.04	137.42	137.21	129.07	129.26	129.46	129.95	130.40	130.78
Nuclear Power	100.21	100.21	100.47	100.52	100.78	100.87	101.17	101.42	101.65	101.96	102.09	102.37	103.59
Pumped Storage/Other 3/	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	93.46	96.34	101.16	105.57	106.01	111.63	113.72	114.43	115.43	116.37	117.32	118.21	119.15
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.17	0.27	0.37	0.46	0.55	0.68	0.93	1.20	1.44
Total Capacity	945.59	954.98	967.56	979.45	986.58	996.01	1001.50	973.26	975.06	979.08	981.64	986.12	993.10
Cumulative Planned Additions 6/													
Coal	0.00	0.00	1.54	2.26	4.95	7.71	9.21	9.96	9.96	10.71	10.71	10.71	10.71
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	4.52	9.36	12.66	13.48	14.14	15.54	15.54	15.54	15.54	15.54	15.54
Combustion Turbine/Diesel	0.00	0.00	2.76	3.55	3.70	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	4.83	9.24	9.43	9.46	9.47	9.49	9.50	9.52	9.54	9.56	9.58
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	13.65	24.40	30.74	34.51	36.68	38.84	38.86	39.63	39.65	39.67	39.69
Cumulative Unplanned Additions 6/													
Coal	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.98	3.37	5.12	6.81	8.69	12.12
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.12	1.91
Combustion Turbine/Diesel	0.00	0.00	0.00	2.44	2.91	3.34	3.45	3.53	3.88	4.08	4.58	5.02	5.40
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.25	5.85	7.92	8.62	9.59	10.52	11.45	12.32	13.25
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.17	0.27	0.37	0.46	0.55	0.68	0.93	1.20	1.44
Total Unplanned Additions	0.00	0.00	0.00	2.44	3.33	9.46	13.26	15.59	17.40	20.40	24.08	28.36	34.84
Cumulative Total Additions	0.00	0.00	13.65	26.84	34.07	43.96	49.94	54.44	56.26	60.03	63.73	68.03	74.53

Table 75. Electric Power Projections for EMM Region
United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cumulative Retirements 7/													
Coal	0.00	0.00	0.00	0.81	1.17	1.51	1.89	2.08	2.09	2.16	3.42	3.52	3.54
Oil and Natural Gas Steam 3/	0.00	0.00	0.96	1.35	1.35	1.38	1.46	26.02	26.11	26.11	26.11	26.11	26.11
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.41	0.51	0.51	0.71	1.03	9.25	9.41	9.41	9.41	9.41	9.41
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.00	0.00	1.38	2.69	3.05	3.60	4.38	37.37	37.62	37.69	38.95	39.05	39.07
End-Use Sectors 8/													
Coal	4.13	3.99	4.09	4.09	3.97	3.97	4.78	4.99	4.69	4.59	4.90	5.38	5.99
Petroleum	1.15	1.22	1.33	1.33	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
Natural Gas	14.71	14.08	14.59	14.82	15.57	15.83	16.09	16.35	16.63	16.90	17.20	17.51	17.83
Other Gaseous Fuels	2.17	1.76	1.46	1.46	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
Renewable Sources 4/	5.96	6.00	6.20	6.34	6.38	6.65	6.80	6.88	7.50	8.00	8.24	8.43	8.64
Other	0.86	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Total	28.97	27.89	28.53	28.90	30.21	30.74	31.97	32.52	33.11	33.79	34.65	35.62	36.76
Electricity Demand (billion kilowatthours)													
Residential	1359.20	1351.44	1391.27	1405.28	1428.07	1449.75	1465.23	1484.48	1456.20	1461.86	1471.85	1488.48	1499.27
Commercial/Other	1275.08	1299.74	1341.40	1352.93	1368.54	1385.54	1409.74	1434.40	1461.84	1492.41	1522.29	1551.72	1579.02
Industrial	1019.15	1001.93	1004.45	1007.93	1003.33	1026.84	1045.15	1051.71	1053.54	1054.21	1057.76	1060.49	1060.66
Transportation	6.27	6.37	6.48	6.57	6.71	6.83	6.94	7.04	7.14	7.22	7.32	7.41	7.50
Total Sales	3659.70	3659.48	3743.60	3772.70	3806.65	3868.96	3927.07	3977.63	3978.72	4015.71	4059.21	4108.10	4146.44
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	44.53	42.44	44.63	43.46	38.81	31.40	29.96	33.28	35.80	33.61	26.58	28.29	30.34
Gross International Exports	19.80	24.58	18.81	17.32	16.76	16.47	16.38	16.39	16.42	16.07	15.64	15.34	15.06
Gross Interregional Electricity Imports	300.76	285.70	273.34	296.09	322.23	308.55	317.34	334.73	342.04	350.15	337.84	326.28	314.23
Gross Interregional Electricity Exports	304.30	289.10	276.54	299.86	326.54	312.70	321.73	339.46	347.08	355.48	343.06	331.39	319.22
Purchases from Combined Heat and Power 8/	29.73	29.54	31.29	31.68	33.57	34.40	36.95	37.99	39.15	40.50	42.19	44.06	46.47
Electric Power Sector Generation for Custome	3869.18	3866.46	3962.35	3987.93	4025.49	4091.14	4145.04	4187.65	4178.06	4210.77	4254.20	4301.92	4337.73
Total Net Energy for Load	3920.08	3910.47	4016.26	4041.98	4076.80	4136.34	4191.19	4237.80	4231.56	4263.47	4302.11	4353.83	4394.49
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	1992.06	1966.04	2002.38	1992.19	2013.59	2033.97	2075.32	2101.12	2116.32	2140.19	2153.75	2173.98	2206.28
Petroleum	116.77	58.93	49.13	48.38	49.08	49.53	49.69	50.78	50.74	50.19	50.77	51.23	51.29
Natural Gas	683.29	732.34	803.86	817.76	815.34	820.00	817.60	822.91	787.41	786.35	806.58	820.77	809.92
Nuclear	781.99	787.22	799.68	799.63	795.18	796.78	799.48	801.65	803.49	806.05	807.03	809.02	816.50
Pumped Storage/Other 9/	4.47	4.29	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Renewable Sources 10/	323.46	350.80	340.70	363.36	385.70	424.29	436.40	444.39	453.32	461.23	469.33	480.21	487.05
Total Generation	3902.03	3899.62	3996.36	4021.92	4059.49	4125.17	4179.09	4221.45	4211.88	4244.61	4288.06	4335.81	4371.64
Sales to Customers	3869.18	3866.46	3962.35	3987.93	4025.49	4091.14	4145.04	4187.65	4178.06	4210.77	4254.20	4301.92	4337.73
Generation for Own Use	32.85	33.17	34.00	33.99	34.00	34.02	34.05	33.80	33.82	33.84	33.87	33.89	33.91
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.28	0.52	0.55	0.58	0.62	0.67	0.73	0.77

Table 75. Electric Power Projections for EMM Region
United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Sectors 8/													
Coal	21.64	21.80	22.07	22.07	21.48	21.48	27.56	29.10	26.84	26.12	28.46	31.98	36.57
Petroleum	5.53	4.00	4.50	4.50	5.85	5.85	5.84	5.86	5.85	5.85	5.86	5.86	5.85
Natural Gas	74.88	75.44	77.66	79.39	86.13	88.07	90.03	92.19	94.23	96.29	98.66	100.94	103.26
Other Gaseous Fuels	12.38	11.57	11.20	11.20	10.39	10.38	10.38	10.41	10.40	10.40	10.41	10.41	10.40
Renewable Sources 10/	34.79	34.98	35.40	35.67	35.77	37.17	38.01	38.40	42.95	46.50	47.88	48.87	49.97
Other	6.35	6.84	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
Total	155.58	154.63	156.57	158.57	165.37	168.69	177.56	181.70	186.01	190.92	197.02	203.80	211.79
Sales to Utilities	29.73	29.54	31.29	31.68	33.57	34.40	36.95	37.99	39.15	40.50	42.19	44.06	46.47
Generation for Own Use	125.85	125.09	125.28	126.89	131.80	134.29	140.62	143.72	146.86	150.42	154.83	159.73	165.32
Total Electricity Generation	4057.61	4054.25	4152.93	4180.50	4224.93	4294.13	4357.17	4403.71	4398.47	4436.15	4485.76	4540.33	4584.21
End-Use Prices (2006 cents per kilowatthour)													
Residential	9.7	10.4	10.4	10.5	10.8	10.7	10.5	10.4	10.3	10.3	10.2	10.3	10.3
Commercial	8.9	9.5	9.3	9.5	9.7	9.5	9.2	9.1	8.9	8.8	8.7	8.7	8.7
Industrial	5.9	6.1	6.3	6.5	6.7	6.6	6.3	6.2	6.0	5.9	5.9	5.9	5.9
Transportation	10.5	10.1	10.1	10.6	10.9	10.6	10.3	10.3	10.0	9.9	9.9	9.9	9.9
All Sectors Average	8.4	8.9	8.9	9.1	9.3	9.2	8.9	8.8	8.7	8.6	8.5	8.5	8.6
Prices by Service Category (2006 cents per kilowatthour)													
Generation	5.4	5.9	6.0	6.2	6.4	6.2	6.0	5.9	5.7	5.5	5.5	5.5	5.6
Transmission	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
Distribution	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Fuel Consumption (quadrillion Btu) 11/													
Coal	20.74	20.48	20.68	20.58	20.80	21.01	21.42	21.67	21.82	22.04	22.18	22.36	22.66
Natural Gas	6.04	6.42	6.97	7.02	6.96	6.89	6.82	6.86	6.60	6.59	6.75	6.85	6.77
Oil	1.24	0.64	0.55	0.54	0.55	0.56	0.56	0.57	0.57	0.56	0.57	0.57	0.57
Total	28.01	27.54	28.20	28.14	28.30	28.45	28.79	29.10	28.98	29.19	29.49	29.78	30.00
Fuel Prices (dollars per million Btu)													
Coal	1.59	1.69	1.73	1.77	1.82	1.84	1.81	1.78	1.76	1.75	1.74	1.72	1.72
Natural Gas	8.44	6.87	6.90	7.24	7.40	6.96	6.65	6.49	6.25	6.06	5.93	5.88	5.93
Distillate Fuel Oil	12.62	13.35	14.96	17.35	14.25	13.62	12.92	12.19	11.52	11.26	10.67	10.26	10.27
Residual Fuel Oil	7.40	8.17	8.60	10.50	9.98	9.45	8.97	8.52	8.13	7.87	7.41	7.03	7.05
Biomass	1.88	1.87	1.88	1.88	1.88	1.88	1.88	1.90	1.91	1.92	2.09	2.10	2.11
Emissions 12/													
Total Carbon (million tons)	720.45	704.43	717.04	714.79	720.17	725.15	736.04	744.14	744.25	750.55	756.94	763.99	771.29
Carbon Dioxide (million tons)	2641.67	2582.92	2629.13	2620.88	2640.63	2658.87	2698.83	2728.51	2728.90	2752.00	2775.46	2801.30	2828.08
Sulfur Dioxide (million tons)	10.22	9.39	9.34	8.53	7.52	6.43	5.82	5.32	5.09	4.96	4.68	4.51	4.35
Nitrogen Oxide (million tons)	3.64	3.41	3.53	3.48	2.36	2.33	2.35	2.34	2.35	2.36	2.11	2.11	2.10
Mercury (tons)	51.72	50.37	50.77	48.43	46.58	37.24	36.92	33.20	33.82	27.63	24.84	23.36	22.87

Table 75. Electric Power Projections for EMM Region
United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generating Capacity 1/ (gigawatts)														
Electric Power Sector														
Coal	335.17	338.65	343.07	349.29	354.46	360.61	366.71	372.21	378.06	384.65	391.55	399.09	406.10	1.1%
Oil and Natural Gas Steam 2/	93.62	93.46	93.34	93.23	93.23	93.23	93.14	93.03	93.03	93.01	93.01	93.01	92.94	-1.1%
Combined Cycle	194.62	195.66	196.68	197.76	199.26	201.71	203.99	205.72	206.64	207.62	208.16	208.55	209.96	0.7%
Combustion Turbine/Diesel	130.86	131.10	132.07	133.57	135.51	137.88	140.61	143.79	147.60	152.08	155.56	160.27	164.68	1.0%
Nuclear Power	105.59	107.99	110.87	110.87	112.13	113.24	114.32	115.68	116.80	117.34	117.34	116.02	114.94	0.6%
Pumped Storage/Other 3/	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	120.01	121.31	123.62	124.15	124.67	125.81	126.98	128.26	128.91	129.37	131.09	131.55	132.54	1.3%
Distributed Generation 5/	1.82	2.23	2.70	3.29	3.92	4.61	5.23	5.87	6.58	7.29	8.10	8.93	9.77	--
Total Capacity	1003.15	1011.87	1023.81	1033.62	1044.63	1058.55	1072.45	1086.02	1099.07	1112.81	1126.27	1138.89	1152.38	0.8%
Cumulative Planned Additions 6/														
Coal	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54	--
Combustion Turbine/Diesel	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	9.60	9.62	9.64	9.66	9.68	9.71	9.73	9.75	9.77	9.79	9.82	9.84	9.86	--
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Planned Additions	39.70	39.73	39.75	39.77	39.79	39.81	39.84	39.86	39.88	39.90	39.92	39.95	39.97	--
Cumulative Unplanned Additions 6/														
Coal	18.26	21.73	26.27	32.49	37.66	43.96	50.06	55.56	61.41	68.02	74.92	82.46	89.47	--
Oil and Natural Gas Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combined Cycle	2.56	3.61	4.62	5.70	7.20	9.65	11.93	13.66	14.58	15.56	16.11	16.49	17.90	--
Combustion Turbine/Diesel	5.48	5.73	6.69	8.19	10.14	12.50	15.23	18.42	22.22	26.71	30.32	35.08	39.54	--
Nuclear Power	2.72	5.12	8.00	8.00	9.26	10.37	11.46	12.81	13.94	14.47	14.47	14.98	16.56	--
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	14.08	15.36	17.65	18.16	18.65	19.78	20.92	22.18	22.81	23.24	24.94	25.38	26.35	--
Distributed Generation 5/	1.82	2.23	2.70	3.29	3.92	4.61	5.23	5.87	6.58	7.29	8.10	8.93	9.77	--
Total Unplanned Additions	44.92	53.78	65.94	75.83	86.84	100.88	114.84	128.50	141.53	155.28	168.86	183.32	199.59	--
Cumulative Total Additions	84.63	93.50	105.69	115.60	126.63	140.69	154.67	168.36	181.41	195.19	208.79	223.27	239.56	--

Table 75. Electric Power Projections for EMM Region
United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cumulative Retirements 7/														
Coal	3.59	3.59	3.71	3.71	3.71	3.85	3.85	3.85	3.85	3.87	3.87	3.87	3.87	--
Oil and Natural Gas Steam 3/	26.11	26.27	26.39	26.50	26.51	26.51	26.59	26.70	26.70	26.72	26.72	26.72	26.79	--
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Combustion Turbine/Diesel	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.55	9.59	9.65	--
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	4.48	--
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	--
Total	39.12	39.28	39.52	39.63	39.64	39.78	39.87	39.98	39.98	40.02	40.15	42.02	44.81	--
End-Use Sectors 8/														
Coal	6.53	6.35	6.28	7.42	7.42	7.12	6.61	6.60	7.11	7.24	7.62	7.87	7.97	2.9%
Petroleum	1.93	1.90	1.90	2.17	2.17	2.17	2.10	2.10	2.10	2.13	2.13	2.13	2.13	2.4%
Natural Gas	18.17	18.49	18.83	19.20	19.54	19.88	20.21	20.55	20.90	21.26	21.62	22.00	22.41	2.0%
Other Gaseous Fuels	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	-0.1%
Renewable Sources 4/	9.10	9.92	10.85	10.94	12.15	13.20	14.41	15.20	15.45	15.76	16.12	16.46	16.72	4.4%
Other	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.0%
Total	38.31	39.23	40.42	42.30	43.86	44.94	45.91	47.04	48.15	48.96	50.06	51.05	51.80	2.6%
Electricity Demand (billion kilowatthours)														
Residential	1514.17	1528.29	1539.82	1549.11	1565.25	1582.48	1604.39	1620.13	1640.79	1661.86	1685.83	1701.93	1722.29	1.0%
Commercial/Other	1606.43	1633.70	1661.36	1690.54	1718.71	1746.66	1774.42	1802.27	1829.96	1858.19	1885.67	1913.48	1941.10	1.7%
Industrial	1059.72	1055.65	1052.22	1050.54	1047.30	1044.58	1042.57	1041.16	1040.75	1040.17	1037.16	1034.25	1032.94	0.1%
Transportation	7.59	7.68	7.77	7.86	7.94	8.15	8.22	8.30	8.39	8.47	8.55	8.64	8.73	1.3%
Total Sales	4187.90	4225.31	4261.17	4298.04	4339.20	4381.87	4429.60	4471.86	4519.88	4568.69	4617.21	4658.30	4705.05	1.1%
Net Energy for Load (billion kilowatthours) 7/														
Gross International Imports	29.29	31.25	27.38	27.80	27.59	28.11	28.79	27.90	27.90	27.90	27.90	33.32	34.65	-0.8%
Gross International Exports	14.79	14.46	14.22	14.01	13.70	13.29	12.59	12.11	12.11	12.11	12.11	12.11	12.11	-2.9%
Gross Interregional Electricity Imports	299.90	281.20	266.49	256.47	254.42	257.41	263.53	262.78	258.39	253.49	256.14	252.99	256.00	-0.5%
Gross Interregional Electricity Exports	304.73	285.78	270.89	260.80	258.84	261.89	268.14	267.37	262.89	257.89	260.59	257.38	260.45	-0.4%
Purchases from Combined Heat and Power 8/	49.19	51.90	56.00	62.48	69.33	70.52	72.01	73.69	75.28	76.09	77.56	78.70	79.23	4.2%
Electric Power Sector Generation for Custome	4379.53	4413.85	4451.19	4483.02	4519.65	4562.87	4610.75	4654.11	4703.45	4754.03	4804.00	4840.90	4888.68	1.0%
Total Net Energy for Load	4438.39	4477.96	4515.94	4554.97	4598.45	4643.73	4694.35	4738.99	4790.01	4841.50	4892.89	4936.42	4986.00	1.0%
Generation by Fuel Type (billion kilowatthours)														
Electric Power Sector														
Coal	2251.42	2286.51	2318.66	2362.53	2399.37	2444.71	2492.19	2533.45	2575.72	2623.66	2672.31	2723.31	2786.84	1.5%
Petroleum	51.50	51.90	52.67	53.18	53.75	54.21	54.61	54.88	55.21	55.88	56.43	56.77	56.84	-0.2%
Natural Gas	782.15	754.26	722.74	701.82	689.79	672.33	658.53	643.78	638.90	633.46	626.01	608.47	602.95	-0.8%
Nuclear	828.96	846.40	868.12	874.12	882.90	891.59	900.35	910.66	920.04	925.41	926.40	927.96	917.43	0.6%
Pumped Storage/Other 9/	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	-7.9%
Renewable Sources 10/	498.82	508.13	522.38	524.75	527.22	533.40	538.43	544.71	546.95	548.99	556.23	557.76	557.94	2.0%
Total Generation	4413.46	4447.80	4485.17	4517.00	4553.63	4596.84	4644.72	4688.09	4737.42	4788.01	4837.97	4874.87	4922.60	1.0%
Sales to Customers	4379.53	4413.85	4451.19	4483.02	4519.65	4562.87	4610.75	4654.11	4703.45	4754.03	4804.00	4840.90	4888.68	1.0%
Generation for Own Use	33.93	33.95	33.98	33.98	33.98	33.98	33.98	33.98	33.98	33.98	33.97	33.97	33.92	0.1%
Distributed Generation 5/	0.88	1.00	1.14	1.34	1.55	1.78	1.99	2.21	2.45	2.69	2.98	3.28	3.59	--

Table 75. Electric Power Projections for EMM Region
United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Sectors 8/														
Coal	40.60	39.24	38.69	47.21	47.21	44.93	41.19	41.12	44.92	45.82	48.66	50.58	51.27	3.6%
Petroleum	6.01	6.52	7.30	7.89	8.76	8.99	9.32	9.33	9.24	9.56	9.47	9.47	9.47	3.7%
Natural Gas	105.65	108.16	110.76	113.41	116.12	118.71	121.34	123.89	126.48	129.14	131.84	134.67	137.66	2.5%
Other Gaseous Fuels	10.39	10.39	10.39	10.39	10.40	10.40	10.42	10.42	10.42	10.42	10.42	10.42	10.42	-0.4%
Renewable Sources 10/	52.86	58.49	65.05	65.68	74.61	81.35	89.26	94.02	94.68	95.70	96.92	97.96	98.19	4.4%
Other	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	-0.7%
Total	221.25	228.54	237.93	250.32	262.85	270.13	277.27	284.54	291.49	296.38	303.05	308.85	312.76	3.0%
Sales to Utilities	49.19	51.90	56.00	62.48	69.33	70.52	72.01	73.69	75.28	76.09	77.56	78.70	79.23	4.2%
Generation for Own Use	172.06	176.64	181.93	187.84	193.52	199.61	205.25	210.85	216.21	220.29	225.50	230.14	233.53	2.6%
Total Electricity Generation	4635.58	4677.34	4724.24	4768.66	4818.02	4868.76	4923.98	4974.83	5031.37	5087.08	5144.01	5187.00	5238.94	1.1%
End-Use Prices														
(2006 cents per kilowatthour)														
Residential	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.5	0.0%
Commercial	8.8	8.8	8.7	8.7	8.7	8.7	8.7	8.8	8.8	8.8	8.9	8.9	8.9	-0.2%
Industrial	5.9	5.9	5.9	5.8	5.9	5.9	5.9	5.9	5.9	5.9	6.0	6.0	6.0	-0.1%
Transportation	10.0	10.0	9.9	9.8	9.8	9.8	9.8	9.9	9.9	9.9	10.0	10.0	10.1	0.0%
All Sectors Average	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.8	8.8	8.8	0.0%
Prices by Service Category														
(2006 cents per kilowatthour)														
Generation	5.6	5.6	5.6	5.5	5.6	5.6	5.7	5.7	5.7	5.7	5.8	5.8	5.9	-0.1%
Transmission	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1%
Distribution	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	-0.2%
Fuel Consumption (quadrillion Btu) 11/														
Coal	23.07	23.39	23.67	24.05	24.38	24.76	25.17	25.51	25.86	26.25	26.63	27.02	27.55	1.2%
Natural Gas	6.55	6.33	6.09	5.93	5.83	5.68	5.56	5.45	5.40	5.36	5.31	5.18	5.13	-0.9%
Oil	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.63	0.63	-0.1%
Total	30.19	30.29	30.34	30.57	30.80	31.04	31.34	31.57	31.87	32.23	32.57	32.83	33.31	0.8%
Fuel Prices (dollars per million Btu)														
Coal	1.71	1.71	1.72	1.72	1.72	1.73	1.73	1.74	1.74	1.75	1.76	1.77	1.78	0.2%
Natural Gas	5.98	6.04	5.95	5.81	5.92	6.02	6.14	6.26	6.38	6.44	6.66	6.80	6.93	0.0%
Distillate Fuel Oil	10.42	10.57	10.69	10.80	10.93	11.14	11.39	11.59	11.86	12.04	12.25	12.50	12.71	-0.2%
Residual Fuel Oil	7.19	7.35	7.50	7.63	7.73	7.91	8.09	8.25	8.44	8.56	8.75	8.89	9.04	0.4%
Biomass	2.13	2.16	2.13	2.13	2.13	2.12	2.12	2.24	2.24	2.24	2.24	2.25	2.21	0.7%
Emissions 12/														
Total Carbon (million tons)	779.56	785.28	789.62	798.24	805.97	814.76	824.74	832.76	841.91	852.51	862.79	871.72	885.98	1.0%
Carbon Dioxide (million tons)	2858.39	2879.37	2895.28	2926.89	2955.22	2987.44	3024.04	3053.45	3087.01	3125.88	3163.57	3196.32	3248.60	1.0%
Sulfur Dioxide (million tons)	3.99	3.94	3.77	3.66	3.65	3.61	3.64	3.66	3.67	3.63	3.65	3.62	3.71	-3.8%
Nitrogen Oxide (million tons)	2.11	2.11	2.12	2.12	2.12	2.13	2.14	2.14	2.15	2.15	2.16	2.16	2.17	-1.9%
Mercury (tons)	21.14	20.50	19.46	19.43	18.41	17.46	17.22	17.14	16.75	16.43	16.26	15.82	15.31	-4.8%

Table 75. Electric Power Projections for EMM Region
United States

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2006.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

10/ Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

11/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

12/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Other 2006 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2008 National Energy

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
East Central Area Reliability Coordination Agreement													
Coal	515.04	511.48	516.34	510.67	515.57	523.08	531.02	539.22	544.72	551.86	550.27	554.85	558.69
Petroleum	6.40	5.33	3.26	3.19	3.35	3.32	3.60	3.69	3.72	3.40	3.13	3.14	3.13
Natural Gas	21.92	18.19	35.35	38.00	42.32	40.08	39.96	40.16	39.73	40.20	41.31	41.63	41.90
Nuclear	61.65	58.05	61.23	61.08	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02
Pumped Storage/Other 1/	-1.13	-1.41	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
Renewables 2/	6.20	6.22	5.76	6.48	7.20	7.36	7.28	7.38	7.38	7.34	7.35	7.39	7.31
Total	610.08	597.85	620.94	618.42	628.46	633.87	641.88	650.48	655.58	662.82	662.09	667.04	671.05
Electric Reliability Council of Texas													
Coal	115.26	113.22	110.63	109.45	109.50	112.39	119.75	130.23	131.43	131.95	130.52	130.84	133.24
Petroleum	1.41	1.68	0.65	0.63	0.70	0.67	0.73	0.93	0.95	0.96	1.40	1.45	1.50
Natural Gas	131.04	133.81	145.83	146.14	146.08	148.60	146.73	141.53	138.64	138.80	141.83	144.71	144.09
Nuclear	38.23	41.26	38.75	38.67	38.48	38.48	38.48	38.81	38.81	40.01	40.01	40.01	41.22
Pumped Storage/Other 1/	1.43	1.84	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewables 2/	5.07	6.42	10.75	12.74	13.46	13.48	13.48	13.48	14.46	15.17	16.38	16.35	16.42
Total	292.44	298.24	306.67	307.69	308.32	313.74	319.31	325.13	324.46	327.08	330.36	333.60	336.73
Mid-Atlantic Area Council													
Coal	130.10	129.50	132.60	132.70	133.87	125.56	128.71	126.28	126.10	126.32	128.96	129.71	132.28
Petroleum	10.55	2.29	3.26	3.23	3.28	3.41	3.42	3.47	3.49	3.51	3.68	3.73	3.76
Natural Gas	27.22	31.20	29.49	33.46	33.95	20.82	22.08	22.40	19.17	18.18	18.90	20.67	22.50
Nuclear	108.41	109.56	108.28	108.02	107.71	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42
Pumped Storage/Other 1/	0.99	0.96	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Renewables 2/	6.43	7.42	8.51	8.63	8.89	21.66	23.05	27.04	28.81	31.99	32.58	36.39	38.75
Total	283.69	280.92	282.98	286.88	288.53	280.71	286.51	288.44	286.82	289.25	293.40	299.79	306.59
Mid-America Interconnected Network													
Coal	176.35	173.71	177.08	177.91	182.92	188.73	194.99	201.88	205.35	206.88	207.48	206.60	206.10
Petroleum	0.94	0.77	1.49	1.49	1.34	1.35	1.39	1.35	1.28	1.05	1.04	1.06	1.03
Natural Gas	15.33	12.86	17.92	27.53	32.98	30.02	28.47	27.49	21.63	21.42	20.90	20.47	16.87
Nuclear	112.50	118.21	117.39	116.99	116.26	116.32	116.78	117.06	117.06	117.06	117.06	117.06	117.06
Pumped Storage/Other 1/	0.19	0.47	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Renewables 2/	3.90	3.26	6.01	7.50	8.60	13.38	16.08	17.84	20.31	22.27	24.49	27.72	30.11
Total	309.21	309.28	320.15	331.69	342.36	350.08	357.97	365.90	365.91	368.94	371.25	373.18	371.44
Mid-Continent Area Power Pool													
Coal	119.29	116.11	120.81	121.34	122.41	122.25	124.18	125.07	127.00	129.29	131.93	134.40	136.90
Petroleum	0.97	0.68	0.77	0.83	0.91	0.91	0.72	0.71	0.69	0.60	0.61	0.62	0.62
Natural Gas	4.46	4.32	1.74	2.08	3.08	3.03	3.10	3.22	3.00	3.34	3.46	3.68	3.72
Nuclear	24.89	25.57	23.96	23.94	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69
Pumped Storage/Other 1/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Renewables 2/	12.09	13.90	18.71	21.29	22.83	23.71	23.67	23.62	23.60	23.60	23.61	23.62	23.61
Total	161.97	160.84	166.27	169.75	173.21	173.88	175.65	176.60	178.28	180.81	183.60	186.31	188.86

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Northeast Power Coordinating Council/ New York													
Coal	17.08	17.88	18.65	17.87	17.16	17.24	16.86	16.69	16.43	16.32	16.52	16.61	16.79
Petroleum	24.24	6.96	8.40	8.61	8.61	8.67	8.72	8.99	8.94	8.96	9.01	9.02	9.00
Natural Gas	32.22	41.77	48.28	51.48	51.19	57.56	59.72	59.43	56.47	54.29	59.09	59.41	56.80
Nuclear	47.92	48.05	46.62	46.39	45.91	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58
Pumped Storage/Other 1/	0.00	0.02	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Renewables 2/	27.50	28.32	26.48	27.16	27.90	27.99	28.57	28.82	29.15	29.45	29.54	29.64	29.66
Total	148.95	143.00	148.81	151.90	151.15	158.42	160.82	160.88	157.94	155.98	161.11	161.64	159.20
Northeast Power Coordinating Council/New England													
Coal	22.98	22.30	19.56	19.71	20.08	20.48	20.84	21.21	21.59	21.95	22.32	22.68	23.06
Petroleum	11.55	3.39	2.69	2.68	2.71	2.66	2.66	2.52	2.53	2.54	2.52	2.50	2.50
Natural Gas	45.51	46.99	59.37	57.34	57.25	55.27	55.83	56.86	56.67	57.69	56.32	55.53	55.51
Nuclear	29.09	31.09	30.40	30.30	30.16	30.16	30.16	30.16	30.16	30.16	30.16	30.16	30.16
Pumped Storage/Other 1/	0.90	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Renewables 2/	13.53	14.06	10.07	10.31	10.79	19.80	19.86	19.96	20.05	20.18	20.33	20.47	20.60
Total	123.57	118.63	123.09	121.34	121.99	129.37	130.35	131.72	132.01	133.53	132.67	132.37	132.86
Southeastern Electric Reliability Council/Florida													
Coal	60.51	61.57	72.89	72.47	72.71	72.95	73.23	73.37	74.80	82.87	90.65	99.14	108.21
Petroleum	37.01	22.76	12.81	12.98	12.95	13.09	13.38	13.73	13.79	13.66	13.76	14.05	13.88
Natural Gas	80.56	93.34	72.95	75.86	78.05	83.63	86.59	90.46	90.45	87.02	83.70	80.76	77.54
Nuclear	28.76	31.43	30.48	30.34	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09
Pumped Storage/Other 1/	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Renewables 2/	2.82	2.91	2.87	2.83	2.76	4.05	4.04	4.18	4.35	4.38	4.79	4.82	4.61
Total	210.81	213.15	193.15	195.63	197.72	204.95	208.48	212.97	214.64	219.16	224.15	230.01	235.48
Southeastern Electric Reliability Council/excluding Florida													
Coal	457.27	461.70	465.30	462.87	468.64	471.68	473.62	473.12	473.69	476.76	480.20	482.96	486.38
Petroleum	9.81	3.55	5.69	5.63	5.73	5.75	5.16	5.36	5.36	5.44	5.46	5.42	5.47
Natural Gas	101.65	109.85	149.95	154.24	139.62	151.38	151.19	153.84	142.78	143.21	146.52	148.85	146.72
Nuclear	251.51	249.34	258.38	260.27	258.34	258.40	260.23	261.79	263.64	264.99	265.96	267.96	274.23
Pumped Storage/Other 1/	-1.07	-1.36	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35
Renewables 2/	36.67	29.17	36.66	37.20	38.20	38.39	38.33	38.69	40.27	41.24	42.22	44.14	44.98
Total	855.83	852.25	913.64	917.85	908.19	923.25	926.18	930.45	923.38	929.27	938.01	946.98	955.43
Southwest Power Pool													
Coal	142.56	140.01	140.55	139.35	139.53	142.11	144.21	145.34	145.78	146.21	146.65	147.10	147.51
Petroleum	1.60	0.24	2.02	1.01	1.12	1.15	1.17	1.22	1.22	1.22	1.22	1.20	1.20
Natural Gas	52.88	56.17	39.52	36.98	39.81	40.70	41.00	40.19	38.25	36.96	39.79	41.67	41.17
Nuclear	8.82	9.35	9.37	9.32	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
Pumped Storage/Other 1/	0.29	0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Renewables 2/	8.20	6.45	9.68	10.26	10.67	10.69	10.70	10.70	10.70	10.71	10.71	10.72	10.72
Total	214.36	212.26	201.10	196.88	200.37	203.90	206.32	206.69	205.20	204.35	207.61	209.92	209.86
Western Electricity Coordinating Council/Northwest Power Pool Area													
Coal	81.97	74.92	77.80	77.90	78.60	79.11	79.35	79.60	79.84	80.09	80.35	79.54	79.83
Petroleum	0.54	0.50	0.26	0.26	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.31
Natural Gas	23.78	24.58	32.91	31.57	31.57	31.57	30.21	29.46	29.46	29.46	30.22	29.47	28.57
Nuclear	8.24	9.33	8.90	8.93	8.91	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97
Pumped Storage/Other 1/	0.45	0.51	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Renewables 2/	125.43	146.08	130.33	139.89	151.30	156.44	161.66	161.67	162.55	162.55	162.60	163.73	163.92
Total	240.41	255.92	250.32	258.67	270.78	276.49	280.61	280.11	281.23	281.49	282.55	282.14	281.72

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal	120.75	117.08	122.94	122.62	124.84	130.19	136.21	136.74	137.18	137.28	135.43	137.06	144.76
Petroleum	0.12	0.15	0.51	0.50	0.52	0.54	0.60	0.58	0.58	0.58	0.58	0.60	0.68
Natural Gas	64.21	64.92	77.14	88.37	81.71	83.37	79.97	84.66	81.72	82.58	83.65	80.85	74.91
Nuclear	18.73	17.43	22.73	22.37	22.37	22.37	22.67	22.67	22.67	22.67	22.67	22.67	22.67
Pumped Storage/Other 1/	0.14	0.18	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Renewables 2/	14.74	16.23	16.59	19.04	20.02	20.52	20.86	20.87	20.88	20.89	22.86	23.21	23.76
Total	218.70	215.98	239.78	252.76	249.32	256.85	260.18	265.39	262.90	263.88	265.06	264.25	266.64
Western Electricity Coordinating Council/California													
Coal	30.88	24.62	27.01	27.11	27.55	27.98	32.12	32.14	32.18	32.20	32.23	32.26	32.28
Petroleum	2.06	1.86	0.07	0.07	0.08	0.08	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Natural Gas	77.21	88.03	87.04	68.33	71.05	67.00	65.43	65.79	62.01	65.69	73.26	85.30	91.73
Nuclear	43.23	38.54	43.18	43.02	42.95	42.99	43.10	43.10	43.10	43.10	43.10	43.10	43.10
Pumped Storage/Other 1/	0.85	0.82	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Renewables 2/	58.99	68.48	56.53	58.28	61.24	65.00	66.99	68.26	68.92	69.58	69.96	70.07	70.66
Total	213.21	222.36	213.86	196.85	202.93	203.28	208.22	209.89	206.81	211.18	219.17	231.34	238.38

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
East Central Area Reliability Coordination Agreement														
Coal	562.26	566.11	568.02	567.58	567.66	568.09	567.62	568.46	568.31	568.39	568.19	566.27	566.26	0.4%
Petroleum	3.16	3.16	3.40	3.43	3.42	3.42	3.41	3.41	3.51	3.60	3.61	3.68	3.68	-1.5%
Natural Gas	43.01	38.49	38.52	38.95	40.90	41.79	43.83	44.09	45.60	46.84	47.97	48.55	52.44	4.5%
Nuclear	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	61.02	0.2%
Pumped Storage/Other 1/	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.4%
Renewables 2/	7.43	7.26	7.05	7.26	7.34	7.24	7.24	7.33	7.34	7.25	7.21	7.21	7.03	0.5%
Total	675.89	675.05	677.02	677.24	679.35	680.56	682.12	683.33	684.78	686.10	687.03	685.77	689.47	0.6%
Electric Reliability Council of Texas														
Coal	148.56	149.36	156.98	156.83	158.36	165.89	175.44	181.48	188.39	194.34	199.72	210.39	224.56	2.9%
Petroleum	1.66	1.67	1.75	1.75	1.77	1.84	1.93	1.99	2.06	2.12	2.17	2.27	2.27	1.3%
Natural Gas	132.27	133.87	129.48	131.70	132.12	127.07	121.71	119.87	117.45	115.92	115.05	108.55	99.70	-1.2%
Nuclear	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	0.0%
Pumped Storage/Other 1/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-13.4%
Renewables 2/	17.10	17.45	17.85	18.00	18.18	18.38	18.60	18.80	19.02	19.25	19.46	19.66	19.88	4.8%
Total	341.09	343.88	347.59	349.85	352.06	354.88	359.43	363.95	368.76	373.48	378.29	382.78	388.34	1.1%
Mid-Atlantic Area Council														
Coal	135.74	139.30	140.08	140.18	139.05	138.64	138.78	139.07	143.73	149.02	153.81	163.36	167.56	1.1%
Petroleum	3.76	3.79	3.79	3.79	3.78	3.78	3.76	3.76	3.76	3.75	3.77	3.76	3.76	2.1%
Natural Gas	19.97	19.60	17.38	17.86	17.90	17.93	17.97	18.04	18.07	18.07	18.07	18.33	20.74	-1.7%
Nuclear	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	108.42	106.75	103.43	-0.2%
Pumped Storage/Other 1/	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	-0.6%
Renewables 2/	42.16	44.44	46.62	46.86	47.69	48.17	48.49	48.93	49.22	49.40	49.76	50.10	50.69	8.3%
Total	310.99	316.56	317.33	318.21	318.00	318.16	318.69	319.55	324.58	330.10	335.33	343.84	347.77	0.9%
Mid-America Interconnected Network														
Coal	201.02	199.50	194.75	194.67	196.90	195.78	197.47	196.88	196.39	195.65	195.80	196.40	205.44	0.7%
Petroleum	1.00	1.00	1.03	1.03	1.06	1.13	1.14	1.14	1.15	1.15	1.13	1.14	1.05	1.3%
Natural Gas	16.83	15.06	15.56	15.58	15.66	14.24	14.24	14.24	14.24	14.25	14.33	14.25	15.51	0.8%
Nuclear	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	117.06	110.24	-0.3%
Pumped Storage/Other 1/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-2.3%
Renewables 2/	34.10	37.38	39.82	40.94	40.48	43.66	45.93	47.93	48.11	48.34	48.85	48.90	46.98	11.8%
Total	370.28	370.27	368.50	369.55	371.44	372.15	376.12	377.53	377.28	376.81	377.57	378.18	379.68	0.9%
Mid-Continent Area Power Pool														
Coal	139.14	140.13	140.69	140.81	140.63	140.57	140.78	140.71	140.75	140.79	140.98	140.73	140.74	0.8%
Petroleum	0.62	0.66	0.74	0.74	0.83	0.84	0.85	0.83	0.83	0.83	0.83	0.82	0.82	0.8%
Natural Gas	3.47	3.25	3.54	4.63	3.56	3.35	3.36	3.36	2.86	2.96	4.74	3.30	3.42	-1.0%
Nuclear	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	-0.3%
Pumped Storage/Other 1/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.0%
Renewables 2/	23.69	23.68	23.58	23.52	23.54	23.53	23.54	23.56	23.57	23.57	23.56	23.48	23.48	2.2%
Total	190.92	191.74	192.56	193.73	192.59	192.33	192.57	192.51	192.06	192.20	194.19	192.44	192.57	0.8%

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Northeast Power Coordinating Council/ New York														
Coal	18.39	18.64	19.51	21.13	22.79	24.96	26.80	28.56	30.42	33.50	36.17	38.40	49.40	4.3%
Petroleum	9.00	8.96	8.97	8.92	8.90	8.86	8.84	8.80	8.69	8.61	8.51	8.42	8.27	0.7%
Natural Gas	55.39	53.25	53.94	52.57	51.70	50.87	50.81	49.63	47.73	45.43	43.40	41.59	38.49	-0.3%
Nuclear	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	46.58	37.22	-1.1%
Pumped Storage/Other 1/	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	12.4%
Renewables 2/	29.58	29.67	29.69	29.65	29.65	29.69	29.69	29.74	29.78	29.78	29.83	29.82	29.87	0.2%
Total	159.32	157.48	159.07	159.22	159.99	161.34	163.09	163.68	163.58	164.28	164.86	165.19	163.63	0.6%
Northeast Power Coordinating Council/New England														
Coal	23.42	23.79	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	0.3%
Petroleum	2.51	2.48	2.48	2.45	2.43	2.39	2.38	2.37	2.37	2.35	2.37	2.35	2.34	-1.5%
Natural Gas	56.53	56.73	59.15	60.50	62.17	62.32	62.26	61.65	61.56	60.87	61.68	60.61	58.56	0.9%
Nuclear	30.16	30.16	30.16	30.16	30.16	30.16	30.16	33.31	34.15	37.54	38.41	38.44	42.64	1.3%
Pumped Storage/Other 1/	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0%
Renewables 2/	20.65	20.68	20.67	20.72	20.71	20.72	20.72	20.78	20.81	20.98	21.02	21.06	21.24	1.7%
Total	134.32	134.90	137.69	139.09	140.72	140.85	140.79	143.39	144.17	147.02	148.77	147.74	150.06	1.0%
Southeastern Electric Reliability Council/Florida														
Coal	117.93	126.89	135.91	144.77	144.72	144.65	144.65	144.65	144.65	147.17	153.74	162.13	164.10	4.2%
Petroleum	13.81	13.86	13.89	13.86	13.86	13.84	13.83	13.83	13.81	13.83	13.85	13.83	13.86	-2.0%
Natural Gas	73.81	71.98	66.18	64.48	62.47	59.58	57.17	55.73	55.46	57.42	57.67	55.31	54.15	-2.2%
Nuclear	30.09	30.09	30.09	30.09	30.09	32.51	46.20	54.96	62.13	70.65	72.64	75.96	82.64	4.1%
Pumped Storage/Other 1/	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	0.0%
Renewables 2/	4.77	4.77	4.82	4.78	4.84	4.91	4.91	4.91	4.90	4.78	4.82	4.55	4.15	1.5%
Total	241.57	248.75	252.07	259.20	264.63	270.43	276.81	282.56	290.83	297.22	304.25	313.22	320.36	1.7%
Southeastern Electric Reliability Council/excluding Florid														
Coal	486.67	490.23	491.75	510.06	524.42	541.80	556.84	572.11	583.89	598.35	609.77	619.06	628.85	1.3%
Petroleum	5.34	5.43	5.50	5.76	5.92	6.00	6.03	6.03	6.04	6.37	6.57	6.63	6.65	2.7%
Natural Gas	140.29	127.38	117.44	96.14	93.67	93.54	93.26	92.46	95.35	95.17	95.11	92.26	95.16	-0.6%
Nuclear	286.69	304.13	325.85	331.85	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	331.29	1.2%
Pumped Storage/Other 1/	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35	2.3%
Renewables 2/	46.93	48.27	47.77	47.59	47.38	47.67	47.65	47.50	47.59	47.76	47.97	48.08	48.29	2.1%
Total	963.56	973.08	985.97	989.07	1002.29	1019.95	1034.74	1049.09	1063.89	1078.71	1090.50	1097.14	1108.15	1.1%
Southwest Power Pool														
Coal	151.19	155.96	161.68	165.96	170.25	174.93	179.20	183.39	187.04	189.76	193.73	193.77	194.80	1.4%
Petroleum	1.22	1.27	1.35	1.41	1.49	1.58	1.63	1.67	1.70	1.73	1.78	1.78	1.77	8.7%
Natural Gas	40.30	37.32	34.63	32.63	30.35	29.97	29.89	29.68	29.79	29.80	28.80	30.12	31.03	-2.4%
Nuclear	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	0.0%
Pumped Storage/Other 1/	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	--
Renewables 2/	10.74	11.31	11.34	11.34	11.29	11.28	11.24	11.25	11.25	11.26	11.23	11.20	10.80	2.2%
Total	212.69	215.11	218.24	220.58	222.62	227.02	231.22	235.25	239.05	241.82	244.83	246.16	247.69	0.6%
Western Electricity Coordinating Council/Northwest Pow														
Coal	80.68	80.75	80.22	81.38	87.69	93.83	99.65	103.51	108.32	113.84	119.49	124.97	130.26	2.3%
Petroleum	0.31	0.31	0.32	0.33	0.39	0.44	0.51	0.55	0.60	0.65	0.73	0.79	0.91	2.5%
Natural Gas	28.57	28.37	17.71	16.39	12.68	13.73	13.60	8.49	7.83	7.83	7.79	7.46	7.46	-4.8%
Nuclear	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	-0.2%
Pumped Storage/Other 1/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-5.8%
Renewables 2/	164.02	164.25	171.27	171.36	171.68	172.08	172.70	175.18	175.57	176.11	176.58	176.78	177.82	0.8%
Total	282.68	282.81	278.66	278.63	281.62	289.28	295.67	296.96	301.57	307.69	313.88	319.30	325.77	1.0%

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Western Electricity Coordinating Council/Rocky Mountain and Arizona-New Mexico-Southern Nevada Power Area														
Coal	153.85	163.25	172.30	182.41	190.13	198.81	208.21	217.87	227.07	236.09	244.12	251.05	258.09	3.3%
Petroleum	0.80	0.90	1.01	1.19	1.28	1.37	1.47	1.57	1.67	1.76	1.87	1.97	2.04	11.6%
Natural Gas	69.15	66.58	59.91	55.92	46.97	38.67	33.38	27.71	22.77	20.96	18.67	18.14	18.86	-5.0%
Nuclear	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	1.1%
Pumped Storage/Other 1/	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	--
Renewables 2/	24.32	24.88	27.38	27.55	28.64	29.30	29.99	30.43	30.68	30.94	31.21	31.45	31.72	2.8%
Total	270.66	278.14	283.14	289.62	289.58	290.71	295.62	300.17	304.81	312.39	318.58	325.40	333.60	1.8%
Western Electricity Coordinating Council/California														
Coal	32.32	32.35	32.37	32.37	32.37	32.37	32.35	32.35	32.35	32.35	32.35	32.35	32.35	1.1%
Petroleum	0.11	0.11	0.11	0.11	0.11	0.11	0.13	0.12	0.12	0.12	0.12	0.12	0.12	-10.9%
Natural Gas	94.50	94.11	100.83	105.72	110.63	109.92	107.41	108.89	109.92	107.34	101.73	98.62	95.68	0.3%
Nuclear	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	43.10	0.5%
Pumped Storage/Other 1/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-12.5%
Renewables 2/	71.37	72.10	72.50	73.14	73.75	74.69	75.64	76.24	76.95	77.42	82.50	83.24	83.74	0.8%
Total	241.89	242.27	249.40	254.94	260.46	260.69	259.13	261.21	262.94	260.83	260.31	257.94	255.49	0.6%

Table 76. Electricity Generation by Electricity Market Module Region and Source (billion Kilowatthours)

1/ Other includes methane, propane and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, spent sulfite liquor, and non-biogenic municipal waste.

2/ Renewables include conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

Sources: 2005 and 2006: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
East Central Area Reliability Coordination Agreement													
Coal	84.03	83.80	84.38	83.75	83.95	84.69	85.32	85.32	85.32	86.04	84.78	84.69	84.69
Oil and Natural Gas Steam 1/	3.51	3.51	3.46	3.46	3.46	3.46	3.42	1.23	1.20	1.20	1.20	1.20	1.20
Combined Cycle	11.45	11.45	11.45	12.13	12.13	12.13	12.13	12.67	12.67	12.67	12.67	12.67	12.67
Combustion Turbine/ Diesel	21.08	21.01	21.02	21.02	21.02	21.02	21.02	17.66	17.66	17.66	17.66	17.66	17.66
Nuclear Power	7.81	7.81	7.82	7.82	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89
Pumped Storage/Other 2/	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.54	1.54	1.71	2.12	2.14	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
Total	133.07	132.78	133.50	133.96	134.25	135.03	135.62	130.61	130.58	131.30	130.04	129.95	129.95
Electric Reliability Council of Texas													
Coal	15.27	15.27	15.27	15.27	15.27	16.02	16.91	18.37	18.37	18.37	18.37	18.37	18.70
Oil and Natural Gas Steam 1/	28.13	27.51	26.70	26.31	26.31	26.31	26.31	15.52	15.52	15.52	15.52	15.52	15.52
Combined Cycle	24.09	24.71	25.24	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65
Combustion Turbine/ Diesel	4.65	4.56	4.50	6.94	7.20	7.23	7.34	7.43	7.78	7.98	8.15	8.49	8.78
Nuclear Power	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.93	4.93	5.07	5.07	5.07	5.23
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	2.39	3.16	4.16	4.90	4.90	4.90	4.90	4.90	4.94	4.96	4.96	5.00	5.00
Total	79.39	80.06	80.72	83.92	84.27	85.11	86.16	77.02	77.44	77.85	78.07	78.50	79.31
Mid-Atlantic Area Council													
Coal	21.59	21.59	21.59	21.59	21.55	21.55	21.55	21.55	21.55	21.55	21.55	21.55	21.87
Oil and Natural Gas Steam 1/	7.63	7.63	7.63	7.63	7.63	7.63	7.63	6.75	6.75	6.75	6.75	6.75	6.75
Combined Cycle	12.08	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27
Combustion Turbine/ Diesel	10.58	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Nuclear Power	13.27	13.27	13.29	13.32	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48
Pumped Storage/Other 2/	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	2.04	2.12	2.23	2.34	2.34	3.23	4.33	4.33	4.33	4.59	4.88	5.29	5.45
Total	68.67	69.89	70.02	70.16	70.27	71.16	72.26	71.38	71.38	71.66	71.98	72.43	72.95
Mid-America Interconnected Network													
Coal	28.73	28.73	28.73	29.19	29.81	30.35	31.10	31.85	31.84	31.80	31.80	31.79	31.77
Oil and Natural Gas Steam 1/	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.05	0.00	0.00	0.00	0.00	0.00
Combined Cycle	5.85	6.02	6.02	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60
Combustion Turbine/ Diesel	16.89	16.89	16.90	16.90	17.05	17.20	17.20	14.69	14.69	14.69	14.69	14.69	14.69
Nuclear Power	14.56	14.56	14.56	14.56	14.57	14.57	14.60	14.62	14.62	14.62	14.62	14.62	14.62
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.02	1.13	1.86	2.59	2.59	3.98	4.71	5.23	5.73	6.24	6.84	7.21	7.75
Total	68.30	68.59	69.32	71.08	71.87	73.95	75.46	73.47	73.91	74.38	74.98	75.34	75.87

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Mid-Continent Area Power Pool													
Coal	18.62	18.61	19.11	19.11	18.87	18.87	19.05	19.06	19.24	19.46	19.74	19.98	20.21
Oil and Natural Gas Steam 1/	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.47	0.47	0.47	0.47	0.47	0.47
Combined Cycle	1.66	2.16	2.29	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
Combustion Turbine/ Diesel	7.72	7.82	8.02	8.12	8.33	8.72	8.72	8.72	8.72	8.72	8.72	8.72	8.72
Nuclear Power	3.08	3.08	3.08	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	5.07	5.28	6.02	6.27	6.38	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40
Total	36.64	37.44	39.01	39.92	40.03	40.45	40.63	40.62	40.80	41.03	41.32	41.57	41.81
Northeast Power Coordinating Council/ New York													
Coal	3.19	3.19	3.00	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
Oil and Natural Gas Steam 1/	11.63	11.27	11.20	11.20	11.20	11.20	11.20	11.07	11.07	11.07	11.07	11.07	11.07
Combined Cycle	7.37	7.74	7.74	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28
Combustion Turbine/ Diesel	5.11	5.09	5.26	5.26	5.26	5.26	5.26	4.77	4.77	4.77	4.77	4.77	4.77
Nuclear Power	5.84	5.84	5.84	5.84	5.84	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92
Pumped Storage/Other 2/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	4.81	5.02	5.03	5.31	5.31	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
Total	39.26	39.44	39.36	40.01	40.01	40.14	40.14	39.53	39.53	39.53	39.53	39.53	39.53
Northeast Power Coordinating Council/New England													
Coal	3.71	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53
Oil and Natural Gas Steam 1/	7.17	7.17	7.17	7.17	7.17	7.17	7.17	5.73	5.73	5.73	5.73	5.73	5.73
Combined Cycle	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64
Combustion Turbine/ Diesel	1.81	1.81	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
Pumped Storage/Other 2/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	2.92	2.98	3.05	3.16	3.16	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51
Total	31.80	31.68	31.80	31.92	31.92	34.27	34.27	32.83	32.84	32.85	32.87	32.89	32.90
Southeastern Electric Reliability Council/Florida													
Coal	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.52	11.74	12.85	13.92	15.04
Oil and Natural Gas Steam 1/	10.49	10.49	10.49	10.49	10.49	10.49	10.44	10.44	10.44	10.44	10.44	10.44	10.44
Combined Cycle	16.12	16.12	17.26	17.42	18.58	18.58	18.58	18.58	18.58	18.58	18.76	18.97	19.14
Combustion Turbine/ Diesel	9.69	10.00	10.48	10.46	10.46	10.46	10.44	10.44	10.44	10.44	10.44	10.44	10.44
Nuclear Power	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	0.64	0.64	0.70	0.70	0.70	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Total	51.03	51.33	53.01	53.15	54.31	54.64	54.57	54.57	54.78	56.01	57.30	58.58	59.87
Southeastern Electric Reliability Council/excluding Florida													
Coal	70.76	70.76	71.38	71.38	72.03	71.82	71.56	71.36	71.36	71.66	71.96	72.26	72.56
Oil and Natural Gas Steam 1/	18.45	18.39	18.39	18.39	18.39	18.39	18.39	13.12	13.12	13.12	13.12	13.12	13.12
Combined Cycle	37.01	37.95	38.63	39.85	40.42	40.98	40.98	40.98	40.98	40.98	40.98	40.98	40.98
Combustion Turbine/ Diesel	32.13	32.21	32.95	32.86	32.86	32.66	32.36	32.35	32.19	32.19	32.19	32.19	32.19
Nuclear Power	32.55	32.55	32.74	32.74	32.77	32.77	32.99	33.16	33.39	33.56	33.68	33.96	35.03
Pumped Storage/Other 2/	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	12.57	12.60	12.67	12.71	12.71	12.73	12.73	12.73	12.92	12.92	12.92	12.92	12.92
Total	211.14	212.14	214.43	215.61	216.85	217.02	216.69	211.37	211.62	212.09	212.51	213.10	214.46

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southwest Power Pool													
Coal	21.47	21.47	21.47	21.47	21.47	22.09	22.09	22.09	22.09	22.09	22.09	22.09	22.09
Oil and Natural Gas Steam 1/	12.99	12.99	12.96	12.96	12.96	12.94	12.94	9.90	9.90	9.90	9.90	9.90	9.90
Combined Cycle	9.93	9.93	9.93	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46
Combustion Turbine/ Diesel	7.43	7.43	7.51	7.51	7.51	7.51	7.51	6.03	6.03	6.03	6.03	6.03	6.03
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Pumped Storage/Other 2/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	3.51	3.85	4.12	4.27	4.27	4.27	4.28	4.28	4.28	4.28	4.28	4.28	4.29
Total	57.01	57.35	57.66	58.34	58.34	58.95	58.95	54.43	54.43	54.44	54.44	54.44	54.44
Western Electricity Coordinating Council/Northwest Power Pool Area													
Coal	11.28	11.39	11.39	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.59
Oil and Natural Gas Steam 1/	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.76	0.76	0.76
Combined Cycle	5.22	5.47	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13
Combustion Turbine/ Diesel	2.08	2.14	2.13	2.13	2.13	2.13	2.13	1.76	1.76	1.76	1.76	1.76	1.76
Nuclear Power	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	35.73	36.42	37.02	38.31	38.31	38.32	38.32	38.33	38.46	38.47	38.47	38.48	38.52
Total	56.53	57.63	58.88	60.38	60.38	60.38	60.39	60.01	60.14	60.15	60.16	60.16	60.20
Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal	16.43	16.83	16.90	16.90	18.05	18.05	18.49	18.49	18.49	18.49	18.49	18.78	19.91
Oil and Natural Gas Steam 1/	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.09	3.09	3.09	3.09	3.09	3.09
Combined Cycle	14.98	17.02	17.65	17.82	18.32	18.59	19.24	20.10	20.10	20.10	20.10	20.10	20.10
Combustion Turbine/ Diesel	5.06	5.28	5.55	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
Nuclear Power	2.81	2.81	2.84	2.84	2.84	2.84	2.88	2.88	2.88	2.88	2.88	2.88	2.88
Pumped Storage/Other 2/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	6.12	6.29	7.24	7.30	7.30	7.31	7.36	7.37	7.37	7.37	7.38	7.38	7.47
Total	49.30	52.12	54.07	55.00	56.65	56.92	58.12	58.95	58.96	58.96	58.97	59.25	60.48
Western Electricity Coordinating Council/California													
Coal	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31
Oil and Natural Gas Steam 1/	15.96	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58
Combined Cycle	12.88	14.05	14.80	14.80	15.87	15.87	15.87	15.87	15.87	15.87	16.00	16.60	17.21
Combustion Turbine/ Diesel	6.09	6.14	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.89	6.99	7.08
Nuclear Power	5.45	5.45	5.46	5.46	5.46	5.46	5.48	5.48	5.48	5.48	5.48	5.48	5.48
Pumped Storage/Other 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	15.08	15.32	15.36	15.59	15.89	16.40	16.60	16.78	16.91	17.05	17.10	17.16	17.26
Total	63.46	64.53	65.76	66.00	67.43	67.98	68.25	68.48	68.65	68.83	69.48	70.39	71.33

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
East Central Area Reliability Coordination Agreement														
Coal	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	84.69	0.0%
Oil and Natural Gas Steam 1/	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	-4.4%
Combined Cycle	12.67	12.67	12.67	12.67	12.89	14.12	15.48	16.02	16.09	16.29	16.43	16.61	17.66	1.8%
Combustion Turbine/ Diesel	17.66	17.66	17.66	17.66	17.66	17.66	17.66	18.30	19.58	20.72	21.89	22.96	23.13	0.4%
Nuclear Power	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.89	0.0%
Pumped Storage/Other 2/	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.5%
Total	129.95	129.95	129.95	129.95	130.16	131.39	132.75	133.94	135.29	136.65	137.99	139.26	140.50	0.2%
Electric Reliability Council of Texas														
Coal	20.94	20.97	21.98	21.98	22.21	23.17	24.40	25.22	26.11	26.92	27.66	29.01	30.94	3.0%
Oil and Natural Gas Steam 1/	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	-2.4%
Combined Cycle	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	0.2%
Combustion Turbine/ Diesel	8.78	8.78	8.95	9.23	9.74	9.88	10.02	10.09	10.17	10.46	10.65	11.07	11.07	3.8%
Nuclear Power	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	0.3%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	5.01	5.01	5.08	5.08	5.08	5.25	5.43	5.51	5.64	5.70	5.76	5.98	5.98	2.7%
Total	81.61	81.69	82.98	83.33	84.20	85.65	87.30	88.41	89.56	90.78	91.83	93.85	95.84	0.8%
Mid-Atlantic Area Council														
Coal	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.95	23.58	24.25	25.60	25.99	0.8%
Oil and Natural Gas Steam 1/	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	-0.5%
Combined Cycle	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	13.27	0.0%
Combustion Turbine/ Diesel	10.54	10.68	11.18	11.85	12.51	13.25	13.97	14.62	14.62	14.62	14.62	14.62	14.62	1.4%
Nuclear Power	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	12.86	12.86	-0.1%
Pumped Storage/Other 2/	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	5.74	6.31	6.52	6.59	6.67	6.68	6.69	6.74	6.85	6.94	6.98	6.98	7.25	5.3%
Total	73.80	74.64	75.48	76.35	77.21	78.08	78.94	79.77	80.65	81.49	82.32	83.17	83.94	0.8%
Mid-America Interconnected Network														
Coal	31.72	31.72	31.60	31.60	31.60	31.46	31.46	31.46	31.46	31.46	31.46	31.46	31.46	0.4%
Oil and Natural Gas Steam 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.2%
Combined Cycle	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.75	0.5%
Combustion Turbine/ Diesel	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	15.06	-0.5%
Nuclear Power	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	14.62	13.24	-0.4%
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	8.08	8.53	8.94	9.27	9.35	9.97	10.55	11.13	11.20	11.27	11.35	11.42	11.71	10.2%
Total	76.15	76.59	76.89	77.21	77.29	77.77	78.35	78.94	79.10	79.27	79.43	79.57	79.09	0.6%

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Mid-Continent Area Power Pool														
Coal	20.43	20.48	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.53	20.53	20.53	20.53	0.4%
Oil and Natural Gas Steam 1/	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.44	0.44	0.44	0.44	-0.4%
Combined Cycle	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	1.1%
Combustion Turbine/ Diesel	8.72	8.83	9.04	9.32	9.47	9.78	10.09	10.35	10.63	10.96	11.24	11.48	11.71	1.7%
Nuclear Power	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	2.53	-0.8%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	0.8%
Total	42.04	42.21	42.51	42.81	42.97	43.29	43.62	43.89	44.18	44.49	44.81	45.10	44.79	0.7%
Northeast Power Coordinating Council/ New York														
Coal	3.03	3.03	3.12	3.34	3.56	3.85	4.10	4.33	4.59	5.00	5.36	5.66	7.14	3.4%
Oil and Natural Gas Steam 1/	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	-0.1%
Combined Cycle	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	0.3%
Combustion Turbine/ Diesel	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.63	4.59	4.53	-0.5%
Nuclear Power	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	4.72	4.72	-0.9%
Pumped Storage/Other 2/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	0.3%
Total	39.73	39.73	39.82	40.04	40.26	40.55	40.80	41.03	41.29	41.70	41.92	40.97	42.40	0.3%
Northeast Power Coordinating Council/New England														
Coal	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	0.0%
Oil and Natural Gas Steam 1/	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	-0.9%
Combined Cycle	10.64	10.85	11.16	11.50	11.85	12.10	12.10	12.10	12.10	12.10	12.10	12.10	12.10	0.5%
Combustion Turbine/ Diesel	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	0.1%
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	4.42	4.42	4.95	4.95	4.95	5.61	1.5%
Pumped Storage/Other 2/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	5.51	5.51	5.51	5.53	5.53	5.53	5.53	5.56	5.56	5.58	5.58	5.58	5.64	2.7%
Total	32.91	33.16	33.52	33.93	34.29	34.55	34.57	35.12	35.13	35.70	35.70	35.70	36.42	0.6%
Southeastern Electric Reliability Council/Florida														
Coal	16.31	17.44	18.59	19.79	19.79	19.79	19.79	19.79	19.79	20.12	21.01	22.10	22.32	3.3%
Oil and Natural Gas Steam 1/	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	0.0%
Combined Cycle	19.14	19.31	19.31	19.31	19.31	19.48	19.59	20.00	20.21	20.99	20.99	20.99	20.99	1.1%
Combustion Turbine/ Diesel	10.44	10.44	10.53	10.61	10.66	10.66	10.66	10.66	10.66	10.77	10.77	10.77	10.90	0.4%
Nuclear Power	3.78	3.78	3.78	3.78	5.04	6.15	7.23	8.07	9.19	9.19	9.19	9.70	10.63	4.4%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	2.0%
Total	61.14	62.46	63.76	65.09	66.47	67.81	69.07	70.38	71.78	73.06	74.02	75.68	77.00	1.7%
Southeastern Electric Reliability Council/excluding Florid														
Coal	72.56	72.95	72.95	75.59	77.78	80.16	82.13	84.05	85.75	87.82	89.63	91.38	92.65	1.1%
Oil and Natural Gas Steam 1/	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.12	13.04	-1.4%
Combined Cycle	40.98	40.98	40.98	40.98	41.13	41.13	41.13	41.13	41.13	41.13	41.30	41.50	41.71	0.4%
Combustion Turbine/ Diesel	32.19	32.19	32.19	32.38	32.91	34.00	35.46	36.92	38.71	40.08	41.51	42.90	44.85	1.4%
Nuclear Power	37.03	39.43	42.31	42.31	42.31	42.31	42.31	42.31	42.31	42.31	42.31	42.31	41.60	1.0%
Pumped Storage/Other 2/	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.95	0.1%
Total	216.46	219.25	222.13	225.01	227.96	231.48	234.97	238.42	241.98	245.48	248.95	252.35	255.08	0.8%

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Southwest Power Pool														
Coal	22.55	23.22	23.93	24.51	25.09	25.73	26.31	26.87	27.37	27.74	28.28	28.28	28.36	1.2%
Oil and Natural Gas Steam 1/	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	-1.1%
Combined Cycle	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	0.2%
Combustion Turbine/ Diesel	6.03	6.03	6.03	6.03	6.07	6.17	6.27	6.35	6.53	6.86	7.01	7.66	8.27	0.4%
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	0.0%
Pumped Storage/Other 2/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	4.29	4.29	4.29	4.30	4.30	4.30	4.30	4.31	4.31	4.31	4.31	4.32	4.32	0.5%
Total	54.91	55.57	56.29	56.87	57.51	58.26	58.95	59.62	60.31	61.02	61.72	62.38	63.09	0.4%
Western Electricity Coordinating Council/Northwest Pow														
Coal	11.59	11.59	11.59	11.77	12.52	13.29	14.07	14.70	15.29	16.01	16.78	17.52	18.22	2.0%
Oil and Natural Gas Steam 1/	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	-0.1%
Combined Cycle	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	0.5%
Combustion Turbine/ Diesel	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	-0.8%
Nuclear Power	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.0%
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	38.64	38.64	40.12	40.12	40.32	40.48	40.62	40.94	41.12	41.26	41.36	41.42	41.65	0.6%
Total	60.36	60.40	61.92	62.14	63.13	64.11	65.07	66.05	66.86	67.77	68.68	69.52	70.49	0.8%
Western Electricity Coordinating Council/Rocky Mounta and Arizona-New Mexico-Southern Nevada Power Area														
Coal	21.20	22.42	23.91	25.32	26.50	27.76	29.06	30.38	31.67	32.92	34.05	35.03	35.97	3.2%
Oil and Natural Gas Steam 1/	3.09	2.93	2.81	2.70	2.69	2.69	2.61	2.50	2.50	2.50	2.50	2.50	2.50	-0.9%
Combined Cycle	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	0.7%
Combustion Turbine/ Diesel	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.41	6.59	6.80	1.1%
Nuclear Power	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	0.1%
Pumped Storage/Other 2/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	7.48	7.62	7.66	7.66	7.70	7.73	7.82	7.90	7.90	7.90	7.91	7.91	7.97	1.0%
Total	61.78	62.97	64.39	65.71	66.94	68.26	69.60	70.90	72.25	73.58	75.03	76.38	77.81	1.7%
Western Electricity Coordinating Council/California														
Coal	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	0.0%
Oil and Natural Gas Steam 1/	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58	0.0%
Combined Cycle	17.87	18.54	19.24	19.98	20.76	21.57	22.37	23.15	23.79	23.79	24.03	24.03	24.03	2.3%
Combustion Turbine/ Diesel	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.36	8.28	8.50	9.32	10.11	2.1%
Nuclear Power	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	0.0%
Pumped Storage/Other 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Renewable Sources 3/	17.37	17.50	17.60	17.71	17.82	17.98	18.14	18.29	18.44	18.50	19.94	20.05	20.11	1.1%
Total	72.31	73.25	74.19	75.18	76.23	77.34	78.47	79.53	80.68	81.81	83.87	84.94	85.94	1.2%

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

1/ Includes oil-, gas-, and dual-fired capacity.

2/ Other includes methane, propane, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

3/ Renewable sources include conventional hydroelectric, geothermal, wood, wood waste, all municipal waste, other biomass, solar thermal, photovoltaics, and wind power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators. Values represent net summer capacity, which is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Sources: 2005 and 2006: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," (preliminary). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 78. Renewable Energy Generation by Fuel
 East Central Area Reliability Coordination Agreement - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.17	0.17	0.18	0.18	0.18	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Wood and Other Biomass 4/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.09	0.09	0.26	0.67	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.54	1.54	1.71	2.12	2.14	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	4.20	4.08	2.80	2.62	2.48	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.55	0.62	0.83	0.83	0.83	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Wood and Other Biomass 4/	1.11	1.14	1.73	1.72	1.72	1.70	1.62	1.72	1.72	1.68	1.69	1.74	1.65
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.31	0.36	0.40	1.31	2.17	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.17	6.20	5.76	6.48	7.20	7.36	7.28	7.38	7.38	7.34	7.35	7.39	7.31
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.09	0.08

Table 78. Renewable Energy Generation by Fuel
 East Central Area Reliability Coordination Agreement - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.40	0.48	0.50	0.57	0.43
Solar Photovoltaic 5/	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.30	0.30	0.31	0.31	0.31	0.32	0.33	0.33	0.57	0.65	0.67	0.74	0.60
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.62	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Wood and Other Biomass 4/	0.97	0.95	0.95	0.95	0.95	1.00	1.02	1.04	2.82	3.43	3.57	4.07	3.03
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total	1.80	1.70	1.70	1.71	1.72	1.76	1.78	1.80	3.59	4.20	4.34	4.84	3.81
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.06	0.06	0.08	0.06
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.06	0.07	0.07	0.09	0.07

Table 78. Renewable Energy Generation by Fuel
 East Central Area Reliability Coordination Agreement - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	1.1%
Wood and Other Biomass 4/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	8.6%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.5%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	-2.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	2.8%
Wood and Other Biomass 4/	1.77	1.60	1.39	1.60	1.69	1.58	1.58	1.68	1.69	1.59	1.55	1.55	1.38	0.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	7.8%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	7.43	7.26	7.05	7.26	7.34	7.24	7.24	7.33	7.34	7.25	7.21	7.21	7.03	0.5%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-2.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.8%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	7.8%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	1.0%

Table 78. Renewable Energy Generation by Fuel
 East Central Area Reliability Coordination Agreement - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.59	1.00	1.38	1.80	2.28	2.64	3.11	3.62	3.93	3.93	3.93	3.94	3.94	14.7%
Solar Photovoltaic 5/	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.08	0.09	0.10	0.12	0.14	12.8%
Wind	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	14.4%
Total	0.77	1.19	1.57	2.00	2.49	2.86	3.33	3.86	4.18	4.20	4.22	4.24	4.26	11.6%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Wood and Other Biomass 4/	4.20	7.31	10.11	13.31	17.11	19.78	23.21	27.06	29.33	29.35	29.36	29.37	29.38	15.4%
Solar Photovoltaic 5/	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.11	0.13	0.15	0.18	0.21	13.4%
Wind	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	14.9%
Total	4.99	8.11	10.92	14.13	17.93	20.62	24.06	27.93	30.22	30.26	30.30	30.34	30.38	12.8%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.08	0.12	0.15	0.23	0.27	0.30	0.32	0.39	0.44	0.44	0.44	0.44	0.44	15.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.9%
Total	0.09	0.13	0.16	0.24	0.29	0.31	0.34	0.40	0.45	0.45	0.45	0.45	0.45	13.2%

Table 78. Renewable Energy Generation by Fuel
East Central Area Reliability Coordination Agreement - 01

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 79. Renewable Energy Generation by Fuel
Electric Reliability Council of Texas - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Wind	1.77	2.53	3.54	4.28	4.28	4.28	4.28	4.28	4.31	4.33	4.33	4.37	4.37
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.39	3.16	4.16	4.90	4.90	4.90	4.90	4.90	4.94	4.96	4.96	5.00	5.00
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	1.00	0.74	0.68	0.71	0.74	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.10	0.12	0.43	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Wood and Other Biomass 4/	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	1.00	1.64	2.85	2.71	2.77
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Wind	3.97	5.55	9.52	11.46	12.14	12.14	12.13	12.14	12.22	12.28	12.28	12.39	12.40
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.07	6.42	10.75	12.74	13.46	13.48	13.48	13.48	14.46	15.17	16.38	16.35	16.42
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.04	0.06	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.06	0.11	0.13	0.14	0.14	0.14	0.14	0.15	0.16	0.17	0.17	0.17

Table 79. Renewable Energy Generation by Fuel
 Electric Reliability Council of Texas - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity													
(gigawatts)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.66	0.74	0.71	0.88
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.33	0.67	0.74	0.72	0.89
Electricity Generation													
(billion kilowatthours)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41	4.93	5.48	5.30	6.53
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	2.53	5.06	5.60	5.42	6.66
Energy Consumption													
(quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.10	0.11	0.14
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.10	0.11	0.14

Table 79. Renewable Energy Generation by Fuel
Electric Reliability Council of Texas - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.3%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.10	0.14	0.14	0.14	0.22	0.22	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	23.4%
Wind	4.37	4.37	4.44	4.44	4.44	4.56	4.68	4.76	4.86	4.91	4.97	5.11	5.11	3.0%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	5.01	5.01	5.08	5.08	5.08	5.25	5.43	5.51	5.64	5.70	5.76	5.98	5.98	2.7%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	5.7%
Wood and Other Biomass 4/	3.45	3.81	4.00	4.15	4.33	4.19	4.05	4.03	3.98	4.05	4.08	3.89	4.12	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	--
Wind	12.39	12.39	12.58	12.58	12.58	12.91	13.26	13.48	13.75	13.90	14.08	14.46	14.45	4.1%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	17.10	17.45	17.85	18.00	18.18	18.38	18.60	18.80	19.02	19.25	19.46	19.66	19.88	4.8%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.7%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	4.1%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	4.8%

Table 79. Renewable Energy Generation by Fuel
 Electric Reliability Council of Texas - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.93	0.98	1.03	0.00	0.00	0.53	1.03	1.03	0.70	0.72	0.77	0.80	0.70	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	18.5%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Total	0.94	0.99	1.04	0.01	0.01	0.54	1.05	1.05	0.73	0.75	0.81	0.84	0.76	22.4%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Wood and Other Biomass 4/	6.94	7.32	7.65	0.00	0.00	3.91	7.65	7.65	5.23	5.37	5.75	5.94	5.25	--
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08	19.1%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Total	7.07	7.45	7.78	0.13	0.13	4.05	7.80	7.81	5.39	5.54	5.93	6.13	5.45	17.3%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.14	0.12	0.12	0.05	0.05	0.09	0.13	0.14	0.12	0.12	0.12	0.12	0.12	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.1%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Total	0.14	0.12	0.12	0.05	0.05	0.09	0.14	0.14	0.12	0.12	0.12	0.13	0.12	19.5%

Table 79. Renewable Energy Generation by Fuel
Electric Reliability Council of Texas - 02

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 80. Renewable Energy Generation by Fuel
Mid-Atlantic Area Council - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.67	0.72	0.74	0.74	0.74	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.29	0.57	0.98	1.15
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.13	0.16	0.25	0.36	0.36	1.12	2.23	2.23	2.23	2.23	2.23	2.23	2.23
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.04	2.12	2.23	2.34	2.34	3.23	4.33	4.33	4.33	4.59	4.88	5.29	5.45
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.58	4.38	4.50	4.51	4.60	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	2.51	2.69	3.10	3.10	3.10	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
Wood and Other Biomass 4/	0.20	0.19	0.32	0.32	0.31	10.09	8.53	12.52	14.29	17.47	18.06	21.87	24.23
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.14	0.15	0.59	0.70	0.88	2.91	5.85	5.85	5.85	5.85	5.85	5.85	5.85
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.43	7.42	8.51	8.63	8.89	21.66	23.05	27.04	28.81	31.99	32.58	36.39	38.75
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.03	0.04	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.13	0.14	0.17	0.18	0.21	0.23
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.01	0.01	0.01	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.07	0.08	0.10	0.10	0.10	0.23	0.25	0.29	0.31	0.33	0.34	0.37	0.39

Table 80. Renewable Energy Generation by Fuel
Mid-Atlantic Area Council - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Solar Photovoltaic 5/	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total	0.13	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.20
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wood and Other Biomass 4/	0.71	0.72	0.72	0.72	0.72	0.75	0.77	0.77	0.78	0.78	0.78	0.79	0.80
Solar Photovoltaic 5/	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Total	0.97	0.99	1.00	1.01	1.02	1.06	1.07	1.08	1.08	1.09	1.10	1.11	1.13
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 80. Renewable Energy Generation by Fuel
Mid-Atlantic Area Council - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.8%
Wood and Other Biomass 4/	1.43	2.00	2.22	2.29	2.36	2.37	2.38	2.44	2.54	2.64	2.67	2.67	2.94	21.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	11.6%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	5.74	6.31	6.52	6.59	6.67	6.68	6.69	6.74	6.85	6.94	6.98	6.98	7.25	5.3%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	0.2%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	1.8%
Wood and Other Biomass 4/	27.64	29.92	32.10	32.34	33.17	33.65	33.97	34.41	34.70	34.88	35.24	35.58	36.17	24.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	16.4%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	42.16	44.44	46.62	46.86	47.69	48.17	48.49	48.93	49.22	49.40	49.76	50.10	50.69	8.3%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.8%
Wood and Other Biomass 4/	0.26	0.28	0.30	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.33	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	16.4%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.42	0.44	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.49	7.7%

Table 80. Renewable Energy Generation by Fuel
Mid-Atlantic Area Council - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.3%
Solar Photovoltaic 5/	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.15	0.18	0.21	0.24	0.28	0.32	13.2%
Wind	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	17.7%
Total	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.36	0.39	0.43	0.47	0.52	0.57	5.9%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Wood and Other Biomass 4/	0.80	0.83	0.87	0.89	0.90	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.93	1.1%
Solar Photovoltaic 5/	0.08	0.10	0.11	0.13	0.15	0.17	0.19	0.22	0.26	0.31	0.37	0.42	0.48	13.8%
Wind	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	17.8%
Total	1.15	1.20	1.27	1.31	1.35	1.38	1.42	1.46	1.52	1.58	1.65	1.71	1.79	2.5%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.9%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.8%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.8%
Total	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.0%

Table 80. Renewable Energy Generation by Fuel
Mid-Atlantic Area Council - 03

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 81. Renewable Energy Generation by Fuel
Mid-America Interconnected Network - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.65	0.65	0.65	0.65	0.65	0.65	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.23	0.25	0.25	0.25	0.25	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.12	0.22	0.95	1.67	1.67	2.99	3.54	4.06	4.56	5.08	5.68	6.04	6.58
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.02	1.13	1.86	2.59	2.59	3.98	4.71	5.23	5.73	6.24	6.84	7.21	7.75
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.09	2.30	2.94	2.97	3.06	3.06	3.94	3.94	3.94	3.94	3.94	3.94	3.94
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.63	0.68	1.21	1.21	1.21	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
Wood and Other Biomass 4/	0.01	0.01	0.18	0.18	0.18	0.12	0.19	0.24	1.06	1.32	1.54	3.56	4.15
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.15	0.26	1.69	3.15	4.16	8.40	10.15	11.86	13.51	15.22	17.21	18.43	20.22
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.89	3.24	6.01	7.50	8.60	13.38	16.08	17.84	20.31	22.27	24.49	27.72	30.11
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.03	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.05
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.02	0.03	0.04	0.08	0.10	0.12	0.14	0.15	0.17	0.18	0.20
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.04	0.03	0.06	0.08	0.09	0.14	0.17	0.19	0.21	0.23	0.25	0.29	0.31

Table 81. Renewable Energy Generation by Fuel
Mid-America Interconnected Network - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.18	0.20
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.24	0.26
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Wood and Other Biomass 4/	1.01	0.97	0.97	0.97	0.98	1.01	1.04	1.06	1.07	1.08	1.09	1.22	1.37
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.34	1.30	1.30	1.31	1.31	1.35	1.38	1.40	1.41	1.42	1.43	1.56	1.71
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 81. Renewable Energy Generation by Fuel
Mid-America Interconnected Network - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	1.1%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	6.92	7.36	7.78	8.10	8.18	8.80	9.38	9.96	10.03	10.10	10.18	10.25	10.54	17.6%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	8.08	8.53	8.94	9.27	9.35	9.97	10.55	11.13	11.20	11.27	11.35	11.42	11.71	10.2%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	2.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	4.1%
Wood and Other Biomass 4/	7.04	8.84	9.89	9.94	9.20	10.30	10.61	10.67	10.61	10.60	10.86	10.68	7.83	31.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	21.33	22.80	24.19	25.27	25.55	27.63	29.58	31.52	31.77	32.00	32.25	32.49	33.41	22.5%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	34.10	37.38	39.82	40.94	40.48	43.66	45.93	47.93	48.11	48.34	48.85	48.90	46.98	11.8%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.1%
Wood and Other Biomass 4/	0.08	0.10	0.11	0.11	0.10	0.11	0.12	0.12	0.11	0.11	0.12	0.12	0.09	31.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.21	0.23	0.24	0.25	0.26	0.28	0.30	0.32	0.32	0.32	0.32	0.33	0.33	22.5%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.35	0.39	0.41	0.42	0.42	0.45	0.48	0.50	0.50	0.50	0.50	0.51	0.49	11.6%

Table 81. Renewable Energy Generation by Fuel
Mid-America Interconnected Network - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.20	0.23	0.25	0.35	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.57	5.9%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	12.6%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Total	0.26	0.28	0.31	0.41	0.62	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.64	4.9%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Wood and Other Biomass 4/	1.39	1.60	1.81	2.67	4.48	4.48	4.49	4.50	4.51	4.52	4.53	4.54	4.54	6.7%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	13.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Total	1.72	1.94	2.15	3.01	4.82	4.81	4.83	4.84	4.85	4.87	4.88	4.89	4.90	5.7%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.1%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.8%

Table 81. Renewable Energy Generation by Fuel
Mid-America Interconnected Network - 04

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 82. Renewable Energy Generation by Fuel
Mid-Continent Area Power Pool - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	2.90	2.90	2.90	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wood and Other Biomass 4/	0.20	0.20	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	1.83	2.02	2.66	2.90	3.01	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.07	5.28	6.02	6.27	6.38	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	7.60	7.96	10.32	11.19	12.27	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.47	0.49	0.60	0.60	0.60	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Wood and Other Biomass 4/	0.24	0.25	1.42	1.67	1.67	1.55	1.49	1.45	1.43	1.43	1.44	1.44	1.44
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	3.76	5.16	6.36	7.81	8.28	8.52	8.54	8.54	8.53	8.53	8.54	8.54	8.54
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	12.06	13.87	18.70	21.27	22.82	23.69	23.65	23.61	23.59	23.58	23.60	23.60	23.60
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.08	0.08	0.10	0.11	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.04	0.05	0.06	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.12	0.14	0.19	0.22	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.08	0.08	0.08	0.08	0.08	0.09	0.11	0.12	0.12	0.14	0.14	0.15	0.15
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.13	0.14	0.14	0.14	0.14	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21

Table 82. Renewable Energy Generation by Fuel
Mid-Continent Area Power Pool - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.68	0.67	0.67	0.67	0.69	0.75	0.91	0.93	0.95	1.09	1.11	1.15	1.19
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.93	0.93	0.93	0.93	0.95	1.01	1.17	1.19	1.21	1.34	1.37	1.41	1.45
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02

Table 82. Renewable Energy Generation by Fuel
Mid-Continent Area Power Pool - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.1%
Wood and Other Biomass 4/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	1.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	1.7%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	0.8%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	2.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	1.0%
Wood and Other Biomass 4/	1.51	1.51	1.40	1.35	1.36	1.36	1.37	1.39	1.39	1.39	1.39	1.30	1.30	7.1%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	8.54	8.54	8.54	8.54	8.54	8.53	8.53	8.53	8.54	8.54	8.53	8.54	8.54	2.1%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	23.67	23.67	23.56	23.51	23.52	23.52	23.53	23.55	23.55	23.55	23.55	23.46	23.46	2.2%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	2.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	9.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	2.1%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	2.3%
End-Use Generators 8/														
Generating Capacity (gigawatts)														
Conventional Hydropower 9/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.18	0.23	0.23	0.25	0.36	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.37	6.7%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	17.8%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%
Total	0.24	0.28	0.29	0.31	0.42	0.41	0.41	0.42	0.42	0.43	0.43	0.44	0.44	5.1%

Table 82. Renewable Energy Generation by Fuel
Mid-Continent Area Power Pool - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	- -
Municipal Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Wood and Other Biomass 4/	1.40	1.80	1.85	1.99	2.94	2.85	2.87	2.89	2.91	2.93	2.95	2.96	2.97	6.4%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	18.4%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%
Total	1.66	2.06	2.11	2.25	3.20	3.11	3.13	3.16	3.18	3.20	3.22	3.23	3.25	5.4%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	- -
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	5.9%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7%
Total	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	5.0%

Table 82. Renewable Energy Generation by Fuel
Mid-Continent Area Power Pool - 05

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 83. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New York - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	4.30	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.30	0.32	0.32	0.32	0.32	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.19	0.37	0.38	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.81	5.02	5.03	5.31	5.31	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	25.70	25.90	24.16	24.11	24.47	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	1.41	1.46	1.11	1.11	1.11	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Wood and Other Biomass 4/	0.29	0.30	0.29	0.29	0.67	0.79	1.36	1.62	1.94	2.24	2.33	2.44	2.45
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.10	0.66	0.91	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	27.50	28.32	26.48	27.16	27.90	27.99	28.57	28.82	29.15	29.45	29.54	29.64	29.66
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.26	0.26	0.24	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.28	0.29	0.27	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30

Table 83. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New York - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity													
(gigawatts)													
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13
Electricity Generation													
(billion kilowatthours)													
Conventional Hydropower 9/	0.06	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wood and Other Biomass 4/	0.24	0.24	0.24	0.24	0.24	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Solar Photovoltaic 5/	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Total	0.56	0.60	0.61	0.62	0.62	0.64	0.65	0.65	0.65	0.65	0.66	0.66	0.67
Energy Consumption													
(quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 83. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New York - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.6%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wind	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	2.5%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	0.3%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08	24.08	-0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	0.0%
Wood and Other Biomass 4/	2.38	2.47	2.49	2.44	2.44	2.49	2.49	2.53	2.58	2.58	2.62	2.62	2.67	9.6%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	3.9%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	29.58	29.67	29.69	29.65	29.65	29.69	29.69	29.74	29.78	29.78	29.83	29.82	29.87	0.2%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	-0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	13.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.9%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.3%

Table 83. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New York - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.8%
Solar Photovoltaic 5/	0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.15	0.18	0.21	0.24	0.27	13.2%
Wind	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	18.2%
Total	0.14	0.15	0.17	0.18	0.20	0.22	0.24	0.26	0.29	0.32	0.35	0.39	0.43	6.7%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Wood and Other Biomass 4/	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.5%
Solar Photovoltaic 5/	0.07	0.08	0.10	0.11	0.13	0.15	0.17	0.19	0.22	0.27	0.31	0.35	0.41	13.8%
Wind	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	18.2%
Total	0.69	0.71	0.74	0.76	0.79	0.81	0.84	0.87	0.92	0.97	1.02	1.07	1.14	2.7%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.8%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.2%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.9%

Table 83. Renewable Energy Generation by Fuel
Northeast Power Coordinating Council / New York - 06

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 84. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New England - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.54	0.54	0.54	0.54	0.54	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Wood and Other Biomass 4/	0.54	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.07	0.19	0.19	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.92	2.98	3.05	3.16	3.16	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	7.98	8.18	6.04	6.10	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	2.47	2.63	2.33	2.33	2.33	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49
Wood and Other Biomass 4/	3.07	3.24	1.52	1.53	1.56	1.64	1.70	1.80	1.90	2.02	2.17	2.31	2.44
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.18	0.34	0.61	9.38	9.38	9.38	9.38	9.38	9.38	9.38	9.38
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	13.53	14.06	10.07	10.31	10.79	19.80	19.86	19.96	20.05	20.18	20.33	20.47	20.60
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.01	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.15	0.11	0.12	0.12	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22

Table 84. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New England - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.47	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Solar Photovoltaic 5/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total	0.62	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.70	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.26	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Wood and Other Biomass 4/	2.26	2.12	2.12	2.12	2.12	2.16	2.18	2.18	2.18	2.18	2.18	2.18	2.19
Solar Photovoltaic 5/	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	3.23	3.14	3.14	3.14	3.14	3.18	3.20	3.20	3.20	3.20	3.20	3.21	3.21
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Table 84. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New England - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.2%
Wood and Other Biomass 4/	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wind	2.52	2.52	2.52	2.54	2.54	2.54	2.54	2.56	2.56	2.59	2.59	2.59	2.64	25.9%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	5.51	5.51	5.51	5.53	5.53	5.53	5.53	5.56	5.56	5.58	5.58	5.58	5.64	2.7%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	-1.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	-0.2%
Wood and Other Biomass 4/	2.49	2.52	2.52	2.50	2.49	2.50	2.50	2.49	2.52	2.58	2.63	2.67	2.67	-0.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	9.38	9.38	9.38	9.44	9.44	9.44	9.44	9.52	9.52	9.61	9.61	9.61	9.79	32.7%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	20.65	20.68	20.67	20.72	20.71	20.72	20.72	20.78	20.81	20.98	21.02	21.06	21.24	1.7%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-1.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.2%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	1.1%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	32.7%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	1.9%

Table 84. Renewable Energy Generation by Fuel
 Northeast Power Coordinating Council / New England - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.2%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.10	0.12	14.6%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	7.8%
Total	0.57	0.58	0.58	0.58	0.59	0.59	0.60	0.62	0.63	0.64	0.65	0.68	0.70	1.0%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.0%
Wood and Other Biomass 4/	2.19	2.20	2.21	2.21	2.22	2.22	2.22	2.23	2.23	2.23	2.23	2.23	2.23	0.2%
Solar Photovoltaic 5/	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.06	0.07	0.09	0.11	0.14	0.17	15.3%
Wind	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	7.8%
Total	3.22	3.23	3.24	3.25	3.26	3.27	3.29	3.31	3.33	3.35	3.37	3.40	3.44	0.4%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.3%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.8%
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2%

Table 84. Renewable Energy Generation by Fuel
Northeast Power Coordinating Council / New England - 07

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 85. Renewable Energy Generation by Fuel
 Florida Reliability Coordinating Council - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.44	0.44	0.46	0.46	0.46	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Wood and Other Biomass 4/	0.14	0.14	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.64	0.64	0.70	0.70	0.70	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.27	0.22	0.15	0.11	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	2.06	2.20	1.72	1.72	1.72	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Wood and Other Biomass 4/	0.48	0.49	1.00	1.00	0.98	1.00	0.99	1.13	1.31	1.33	1.75	1.77	1.57
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.80	2.90	2.87	2.83	2.76	4.04	4.04	4.18	4.35	4.37	4.79	4.82	4.61
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06

Table 85. Renewable Energy Generation by Fuel
 Florida Reliability Coordinating Council - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Wood and Other Biomass 4/	1.09	1.12	1.12	1.13	1.13	1.17	1.20	1.20	1.22	1.23	1.25	1.26	1.30
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.38	1.41	1.41	1.42	1.42	1.46	1.49	1.50	1.52	1.53	1.54	1.55	1.59
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 85. Renewable Energy Generation by Fuel
 Florida Reliability Coordinating Council - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.3%
Wood and Other Biomass 4/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	--
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	2.0%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-10.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	-0.7%
Wood and Other Biomass 4/	1.73	1.73	1.78	1.74	1.79	1.86	1.86	1.86	1.86	1.74	1.78	1.51	1.11	3.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	--
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	4.77	4.77	4.82	4.78	4.83	4.91	4.91	4.91	4.90	4.78	4.82	4.55	4.15	1.5%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.7%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	8.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	--
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	1.9%

Table 85. Renewable Energy Generation by Fuel
 Florida Reliability Coordinating Council - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.22	0.23	0.25	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.29	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	14.0%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0%
Total	0.25	0.27	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.33	0.34	0.34	1.8%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.0%
Wood and Other Biomass 4/	1.32	1.44	1.60	1.68	1.71	1.72	1.73	1.75	1.77	1.79	1.80	1.82	1.83	2.1%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	14.6%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0%
Total	1.61	1.73	1.90	1.97	2.01	2.01	2.03	2.05	2.07	2.09	2.11	2.13	2.15	1.8%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.6%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0%
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.9%

Table 85. Renewable Energy Generation by Fuel
Florida Reliability Coordinating Council - 08

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 86. Renewable Energy Generation by Fuel
Southeastern Electric Reliability Council - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.20	0.23	0.23	0.23	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wood and Other Biomass 4/	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.03	0.03	0.08	0.12	0.12	0.12	0.12	0.12	0.31	0.31	0.31	0.31	0.31
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	12.57	12.60	12.67	12.71	12.71	12.73	12.73	12.73	12.92	12.92	12.92	12.92	12.92
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	34.47	26.80	33.94	34.27	35.23	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.78	0.87	1.07	1.07	1.07	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
Wood and Other Biomass 4/	1.40	1.48	1.53	1.63	1.58	1.68	1.62	1.98	2.94	3.91	4.89	6.82	7.66
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.02	0.10	0.23	0.32	0.32	0.32	0.32	0.94	0.94	0.94	0.94	0.94
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	36.66	29.17	36.65	37.20	38.20	38.39	38.33	38.68	40.27	41.23	42.22	44.14	44.98
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.35	0.27	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.07	0.08
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.37	0.29	0.38	0.38	0.39	0.39	0.39	0.40	0.41	0.42	0.43	0.45	0.46

Table 86. Renewable Energy Generation by Fuel
Southeastern Electric Reliability Council - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Wood and Other Biomass 4/	2.66	2.66	2.68	2.68	2.69	2.81	2.87	2.91	2.94	2.97	3.01	3.06	3.13
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	3.06	3.07	3.08	3.09	3.09	3.21	3.28	3.32	3.35	3.38	3.42	3.47	3.53
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	1.50	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Wood and Other Biomass 4/	16.39	16.72	16.79	16.83	16.83	17.61	17.97	18.18	18.40	18.57	18.82	19.09	19.54
Solar Photovoltaic 5/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	18.24	18.34	18.42	18.45	18.46	19.23	19.60	19.80	20.02	20.20	20.45	20.72	21.17
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.21	0.21	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.24	0.25
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.23	0.23	0.23	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.26	0.26	0.27

Table 86. Renewable Energy Generation by Fuel
Southeastern Electric Reliability Council - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	12.16	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5%
Wood and Other Biomass 4/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.34	10.7%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.95	0.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13	1.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.6%
Wood and Other Biomass 4/	9.61	10.94	10.45	10.26	10.05	10.35	10.33	10.18	10.26	10.44	10.65	10.76	10.88	8.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	1.03	17.4%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	46.93	48.27	47.77	47.58	47.38	47.67	47.65	47.50	47.58	47.76	47.97	48.08	48.29	2.1%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	1.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.6%
Wood and Other Biomass 4/	0.10	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	9.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.4%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.48	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.50	2.2%

Table 86. Renewable Energy Generation by Fuel
Southeastern Electric Reliability Council - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Wood and Other Biomass 4/	3.18	3.33	3.57	3.88	4.09	4.11	4.17	4.23	4.28	4.34	4.39	4.44	4.49	2.2%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.09	15.4%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.6%
Total	3.59	3.74	3.98	4.29	4.50	4.53	4.59	4.66	4.72	4.79	4.86	4.92	4.98	2.0%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.0%
Wood and Other Biomass 4/	19.87	20.96	22.89	25.40	27.06	27.07	27.42	27.76	28.10	28.43	28.73	28.99	29.28	2.4%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.07	0.08	0.11	0.13	0.16	16.1%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.6%
Total	21.50	22.59	24.53	27.04	28.70	28.72	29.07	29.43	29.78	30.13	30.45	30.74	31.06	2.2%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.26	0.27	0.29	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	2.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Total	0.28	0.29	0.31	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.38	2.0%

Table 86. Renewable Energy Generation by Fuel
Southeastern Electric Reliability Council - 09

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 87. Renewable Energy Generation by Fuel
Southwest Power Pool - 10

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Wind	0.95	1.30	1.56	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.51	3.85	4.12	4.27	4.27	4.27	4.28	4.28	4.28	4.28	4.28	4.28	4.29
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	6.47	2.90	5.84	5.88	6.06	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.14	0.14	0.13	0.13	0.14	0.14	0.14	0.15	0.14	0.14	0.14
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04
Wind	1.56	3.58	3.77	4.31	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.20	6.49	9.76	10.34	10.75	10.75	10.76	10.76	10.76	10.77	10.77	10.78	10.78
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.06	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biogenic Municipal Waste 6/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.08	0.07	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

Table 87. Renewable Energy Generation by Fuel
Southwest Power Pool - 10

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.33	0.33	0.34	0.34	0.34	0.36	0.37	0.38	0.38	0.39	0.40	0.40	0.41
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.33	0.34	0.35	0.35	0.35	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.42
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	2.27	2.32	2.37	2.38	2.38	2.49	2.56	2.60	2.62	2.65	2.69	2.74	2.78
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	2.28	2.34	2.39	2.40	2.40	2.51	2.58	2.62	2.64	2.67	2.71	2.76	2.81
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04

Table 87. Renewable Energy Generation by Fuel
Southwest Power Pool - 10

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.5%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	--
Wind	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.2%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	4.29	4.29	4.29	4.30	4.30	4.30	4.30	4.31	4.31	4.31	4.31	4.32	4.32	0.5%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05	3.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wood and Other Biomass 4/	0.15	0.72	0.74	0.73	0.67	0.66	0.62	0.61	0.62	0.62	0.58	0.55	0.14	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.11	0.11	0.12	--
Wind	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	1.0%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	10.80	11.37	11.40	11.40	11.35	11.34	11.30	11.31	11.31	11.32	11.29	11.26	10.86	2.2%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	3.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Biogenic Municipal Waste 6/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wood and Other Biomass 4/	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	--
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.0%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	2.2%

Table 87. Renewable Energy Generation by Fuel
Southwest Power Pool - 10

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.42	0.43	0.48	0.60	0.64	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.70	3.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	16.9%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Total	0.43	0.44	0.49	0.61	0.65	0.65	0.66	0.68	0.69	0.70	0.72	0.73	0.74	3.3%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	2.84	2.91	3.30	4.34	4.62	4.58	4.64	4.70	4.76	4.82	4.87	4.91	4.96	3.2%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	17.6%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.6%
Total	2.87	2.93	3.33	4.37	4.64	4.61	4.67	4.74	4.80	4.87	4.93	4.98	5.04	3.2%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.6%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	1.8%

Table 87. Renewable Energy Generation by Fuel
Southwest Power Pool - 10

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 88. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.28	34.28	34.28	34.28	34.28
Geothermal 2/	0.21	0.26	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.33
Municipal Waste 3/	0.08	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Wood and Other Biomass 4/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04
Wind	1.08	1.69	2.25	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	35.73	36.42	37.02	38.31	38.31	38.32	38.32	38.33	38.46	38.47	38.47	38.48	38.52
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	120.25	139.66	119.65	126.05	135.08	140.25	145.46	145.46	146.36	146.36	146.36	146.36	146.36
Geothermal 2/	1.38	1.53	2.19	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.74
Biogenic Municipal Waste 6/	0.20	0.22	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Wood and Other Biomass 4/	1.44	1.43	1.25	1.25	1.24	1.20	1.20	1.20	1.17	1.17	1.20	2.31	2.23
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08
Wind	2.13	3.22	6.55	9.40	11.78	11.78	11.78	11.78	11.78	11.78	11.78	11.78	11.78
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	125.41	146.07	130.33	139.89	151.30	156.44	161.66	161.66	162.54	162.55	162.59	163.73	163.92
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	1.21	1.40	1.20	1.26	1.35	1.41	1.46	1.46	1.47	1.47	1.47	1.47	1.47
Geothermal 2/	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
Biogenic Municipal Waste 6/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.03	0.07	0.09	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.27	1.48	1.34	1.44	1.55	1.60	1.66	1.66	1.67	1.67	1.67	1.68	1.69

Table 88. Renewable Energy Generation by Fuel
 Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.41	0.40	0.40	0.41	0.41	0.43	0.44	0.45	0.45	0.46	0.49	0.50	0.50
Solar Photovoltaic 5/	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.45	0.45	0.46	0.46	0.47	0.49	0.50	0.51	0.52	0.52	0.55	0.56	0.57
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.21	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	2.01	1.93	1.93	1.93	1.95	2.07	2.17	2.21	2.24	2.27	2.51	2.56	2.60
Solar Photovoltaic 5/	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.27	2.25	2.27	2.28	2.30	2.42	2.52	2.57	2.59	2.63	2.88	2.92	2.97
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04

Table 88. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	34.39	34.39	34.39	34.39	34.39	34.39	34.39	34.39	34.39	34.39	34.39	34.39	34.39	0.0%
Geothermal 2/	0.34	0.34	0.43	0.43	0.48	0.53	0.57	0.63	0.67	0.71	0.74	0.74	0.79	4.8%
Municipal Waste 3/	0.13	0.13	0.16	0.16	0.17	0.17	0.20	0.20	0.20	0.20	0.21	0.21	0.21	2.2%
Wood and Other Biomass 4/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.25	0.25	0.25	0.25	0.25	0.30	1.7%
Solar Thermal	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	--
Solar Photovoltaic 5/	0.04	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	42.3%
Wind	3.53	3.53	4.87	4.87	4.99	5.09	5.17	5.37	5.50	5.60	5.66	5.71	5.83	5.3%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	38.64	38.64	40.12	40.12	40.32	40.48	40.62	40.94	41.12	41.26	41.36	41.42	41.65	0.6%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	147.05	147.05	147.05	147.05	147.05	147.05	147.05	147.05	147.05	147.05	147.05	147.05	147.05	0.2%
Geothermal 2/	2.77	2.77	3.51	3.51	3.93	4.32	4.57	5.05	5.41	5.73	5.95	5.95	6.33	6.1%
Biogenic Municipal Waste 6/	0.69	0.69	0.93	0.93	1.04	1.04	1.28	1.30	1.31	1.31	1.32	1.32	1.32	7.7%
Wood and Other Biomass 4/	1.60	1.82	2.61	2.70	1.98	1.56	1.38	2.53	2.06	1.87	1.84	1.82	2.00	1.4%
Solar Thermal	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	--
Solar Photovoltaic 5/	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	--
Wind	11.78	11.78	17.02	17.02	17.50	17.91	18.21	19.02	19.50	19.89	20.15	20.35	20.81	8.1%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	164.02	164.25	171.27	171.36	171.68	172.08	172.70	175.18	175.57	176.11	176.58	176.78	177.82	0.8%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	0.2%
Geothermal 2/	0.06	0.06	0.08	0.08	0.10	0.11	0.12	0.13	0.15	0.16	0.16	0.16	0.18	7.3%
Biogenic Municipal Waste 6/	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	7.7%
Wood and Other Biomass 4/	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	4.9%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wind	0.12	0.12	0.17	0.17	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.20	0.21	8.1%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	1.69	1.69	1.78	1.78	1.79	1.80	1.81	1.85	1.86	1.88	1.89	1.89	1.91	1.1%

Table 88. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.57	0.58	0.62	0.64	0.66	0.67	0.67	0.69	0.70	0.71	0.72	0.73	0.74	2.6%
Solar Photovoltaic 5/	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.11	12.5%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Total	0.64	0.66	0.70	0.73	0.75	0.76	0.77	0.80	0.81	0.83	0.85	0.87	0.89	2.9%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Wood and Other Biomass 4/	3.12	3.17	3.49	3.67	3.80	3.83	3.84	3.96	4.01	4.07	4.13	4.18	4.24	3.3%
Solar Photovoltaic 5/	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.21	13.2%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Total	3.49	3.55	3.87	4.06	4.20	4.24	4.26	4.39	4.45	4.53	4.61	4.68	4.77	3.2%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	3.5%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.2%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Total	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	3.2%

Table 88. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / Northwest Power Pool Area - 11

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 89. Renewable Energy Generation by Fuel
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	5.41	5.41	5.42	5.42	5.42	5.42	5.47	5.47	5.47	5.47	5.47	5.47	5.47
Geothermal 2/	0.11	0.12	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Solar Thermal	0.00	0.00	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Solar Photovoltaic 5/	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05
Wind	0.54	0.69	1.46	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.58
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.12	6.29	7.24	7.30	7.30	7.31	7.36	7.37	7.37	7.37	7.38	7.38	7.47
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	12.12	13.11	12.77	13.38	14.29	14.78	15.11	15.11	15.11	15.11	15.11	15.11	15.11
Geothermal 2/	0.86	0.99	0.92	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
Biogenic Municipal Waste 6/	0.08	0.06	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Wood and Other Biomass 4/	0.01	0.01	0.15	0.32	0.32	0.32	0.32	0.32	0.32	0.32	2.27	2.62	2.86
Solar Thermal	0.00	0.00	0.22	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.46	0.46	0.46
Solar Photovoltaic 5/	0.01	0.01	0.05	0.07	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14
Wind	1.66	2.05	2.38	3.62	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.97
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	14.74	16.22	16.59	19.04	20.02	20.51	20.86	20.87	20.88	20.89	22.86	23.21	23.76
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.12	0.13	0.13	0.13	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Geothermal 2/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Biogenic Municipal Waste 6/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	0.17	0.18	0.20	0.21	0.22	0.22	0.22	0.22	0.22	0.24	0.25	0.25

Table 89. Renewable Energy Generation by Fuel
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.01	0.01	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.01	0.02	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.09
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.04	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.11	0.11
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 89. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	0.0%
Geothermal 2/	0.15	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.7%
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.14	0.14	0.14	0.14	0.14	0.19	9.2%
Solar Thermal	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	17.8%
Solar Photovoltaic 5/	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	7.1%
Wind	1.58	1.70	1.73	1.73	1.76	1.80	1.83	1.86	1.86	1.86	1.86	1.86	1.86	4.2%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	7.48	7.62	7.66	7.66	7.70	7.73	7.82	7.90	7.90	7.90	7.91	7.91	7.97	1.0%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	0.6%
Geothermal 2/	1.12	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.2%
Biogenic Municipal Waste 6/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	2.5%
Wood and Other Biomass 4/	3.41	3.38	5.77	5.93	6.92	7.48	8.05	8.41	8.65	8.89	9.16	9.39	9.65	32.1%
Solar Thermal	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.50	--
Solar Photovoltaic 5/	0.14	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23	13.5%
Wind	3.97	4.35	4.45	4.45	4.54	4.62	4.73	4.81	4.81	4.81	4.81	4.81	4.81	3.6%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	24.32	24.88	27.38	27.54	28.64	29.30	29.98	30.43	30.68	30.93	31.21	31.45	31.72	2.8%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.6%
Geothermal 2/	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	2.2%
Biogenic Municipal Waste 6/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.5%
Wood and Other Biomass 4/	0.04	0.04	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	32.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	--
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.5%
Wind	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	3.6%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.26	0.27	0.30	0.30	0.31	0.32	0.33	0.33	0.33	0.33	0.34	0.34	0.34	2.9%

Table 89. Renewable Energy Generation by Fuel
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4%
Solar Photovoltaic 5/	0.06	0.06	0.07	0.08	0.08	0.09	0.10	0.11	0.13	0.14	0.16	0.18	0.20	12.7%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.15	0.17	0.18	0.20	11.0%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.0%
Solar Photovoltaic 5/	0.10	0.11	0.12	0.13	0.15	0.17	0.19	0.21	0.24	0.27	0.30	0.34	0.38	13.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.23	0.26	0.30	0.33	0.37	0.41	10.4%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8%

Table 89. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 90. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / California - 13

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	9.87	9.87	9.87	9.87	9.87	9.87	9.93	9.93	9.93	9.93	9.93	9.93	9.93
Geothermal 2/	1.91	1.91	1.91	1.94	1.96	2.04	2.17	2.27	2.32	2.37	2.42	2.44	2.49
Municipal Waste 3/	0.32	0.34	0.34	0.34	0.34	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Wood and Other Biomass 4/	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Solar Thermal	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.48	0.56	0.64	0.65	0.65	0.65
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05
Wind	2.18	2.39	2.43	2.63	2.90	3.15	3.15	3.15	3.15	3.15	3.15	3.19	3.23
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	15.08	15.32	15.36	15.59	15.89	16.40	16.60	16.78	16.91	17.05	17.10	17.16	17.26
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	38.65	47.35	33.26	34.59	36.66	37.66	38.03	38.03	38.03	38.03	38.03	38.03	38.03
Geothermal 2/	12.23	12.11	12.86	13.00	13.20	13.69	14.77	15.76	16.16	16.55	16.94	17.09	17.48
Biogenic Municipal Waste 6/	1.20	1.35	1.40	1.40	1.40	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
Wood and Other Biomass 4/	2.33	2.42	2.67	2.67	2.65	2.65	2.65	2.65	2.65	2.65	2.61	2.44	2.47
Solar Thermal	0.54	0.49	0.70	0.70	0.70	0.71	0.71	0.97	1.23	1.49	1.50	1.50	1.51
Solar Photovoltaic 5/	0.00	0.00	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11
Wind	4.01	4.72	5.62	5.90	6.59	7.42	7.95	7.96	7.96	7.95	7.96	8.08	8.22
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	58.95	68.45	56.53	58.28	61.24	65.00	66.99	68.26	68.92	69.58	69.96	70.07	70.66
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	0.39	0.47	0.33	0.35	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Geothermal 2/	0.26	0.25	0.27	0.27	0.28	0.30	0.33	0.37	0.38	0.39	0.40	0.41	0.42
Biogenic Municipal Waste 6/	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Wood and Other Biomass 4/	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Thermal	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.73	0.82	0.73	0.75	0.79	0.84	0.89	0.92	0.93	0.95	0.96	0.96	0.98

Table 90. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / California - 13

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity													
(gigawatts)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Wood and Other Biomass 4/	0.16	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17
Solar Photovoltaic 5/	0.14	0.21	0.34	0.45	0.46	0.50	0.51	0.52	0.53	0.54	0.58	0.62	0.66
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.41	0.48	0.62	0.72	0.73	0.78	0.79	0.80	0.81	0.82	0.86	0.91	0.95
Electricity Generation													
(billion kilowatthours)													
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.73	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Wood and Other Biomass 4/	0.69	0.67	0.67	0.67	0.68	0.71	0.72	0.73	0.73	0.74	0.75	0.75	0.76
Solar Photovoltaic 5/	0.23	0.33	0.56	0.73	0.75	0.82	0.84	0.85	0.87	0.88	0.95	1.03	1.10
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.66	1.81	2.04	2.21	2.24	2.34	2.37	2.39	2.41	2.43	2.51	2.59	2.67
Energy Consumption													
(quadrillion Btu)													
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Table 90. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / California - 13

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.98	9.98	0.0%
Geothermal 2/	2.54	2.62	2.67	2.72	2.77	2.85	2.92	2.97	3.01	3.06	3.11	3.16	3.21	2.2%
Municipal Waste 3/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	1.8%
Wood and Other Biomass 4/	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.0%
Solar Thermal	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.67	0.67	0.67	2.2%
Solar Photovoltaic 5/	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.12	0.12	10.4%
Wind	3.28	3.32	3.37	3.42	3.48	3.55	3.63	3.72	3.82	3.82	5.21	5.21	5.21	3.3%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	17.37	17.50	17.60	17.71	17.82	17.98	18.14	18.29	18.44	18.50	19.94	20.05	20.11	1.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	38.03	38.03	38.03	38.03	38.03	38.03	38.03	38.03	38.03	38.03	38.03	38.36	38.36	-0.9%
Geothermal 2/	17.87	18.50	18.89	19.27	19.65	20.28	20.85	21.22	21.58	21.98	22.34	22.73	23.13	2.7%
Biogenic Municipal Waste 6/	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	3.1%
Wood and Other Biomass 4/	2.61	2.56	2.39	2.47	2.47	2.54	2.61	2.50	2.50	2.56	2.56	2.56	2.65	0.4%
Solar Thermal	1.51	1.52	1.52	1.53	1.53	1.54	1.54	1.55	1.56	1.56	1.57	1.57	1.58	5.0%
Solar Photovoltaic 5/	0.12	0.14	0.15	0.17	0.18	0.20	0.22	0.23	0.25	0.26	0.28	0.29	0.31	23.4%
Wind	8.38	8.53	8.68	8.85	9.05	9.28	9.56	9.88	10.20	10.20	14.89	14.89	14.89	4.9%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	71.37	72.10	72.50	73.14	73.75	74.69	75.64	76.24	76.95	77.42	82.50	83.24	83.74	0.8%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	-0.9%
Geothermal 2/	0.43	0.45	0.46	0.47	0.48	0.50	0.52	0.53	0.54	0.56	0.57	0.58	0.59	3.6%
Biogenic Municipal Waste 6/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.1%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.5%
Solar Thermal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	5.0%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.4%
Wind	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.15	0.15	0.15	4.9%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	0.99	1.01	1.02	1.04	1.05	1.08	1.10	1.11	1.13	1.14	1.20	1.21	1.23	1.7%

Table 90. Renewable Energy Generation by Fuel
Western Electricity Coordinating Council / California - 13

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity														
(gigawatts)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.0%
Wood and Other Biomass 4/	0.17	0.17	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	1.4%
Solar Photovoltaic 5/	0.71	0.75	0.80	0.86	0.92	0.99	1.06	1.14	1.19	1.24	1.30	1.37	1.44	8.4%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Total	1.00	1.04	1.11	1.17	1.24	1.31	1.38	1.46	1.51	1.57	1.63	1.70	1.77	5.6%
Electricity Generation														
(billion kilowatthours)														
Conventional Hydropower 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.0%
Wood and Other Biomass 4/	0.77	0.78	0.92	0.99	1.02	1.02	1.01	1.02	1.03	1.04	1.06	1.07	1.08	2.0%
Solar Photovoltaic 5/	1.18	1.26	1.35	1.44	1.56	1.68	1.82	1.97	2.06	2.16	2.27	2.40	2.54	8.8%
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Total	2.76	2.85	3.08	3.24	3.39	3.52	3.64	3.80	3.90	4.02	4.14	4.28	4.43	3.8%
Energy Consumption														
(quadrillion Btu)														
Conventional Hydropower 9/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.8%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 91. Renewable Energy Generation by Fuel
United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	76.72	76.72	76.72	76.73	76.73	76.73	77.02	77.02	77.15	77.15	77.15	77.15	77.15
Geothermal 2/	2.23	2.29	2.36	2.40	2.42	2.50	2.63	2.73	2.78	2.83	2.88	2.90	2.98
Municipal Waste 3/	3.21	3.39	3.43	3.44	3.44	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99
Wood and Other Biomass 4/	1.96	2.01	2.18	2.20	2.20	2.20	2.20	2.20	2.20	2.46	2.74	3.16	3.32
Solar Thermal	0.40	0.40	0.53	0.54	0.54	0.54	0.54	0.63	0.71	0.79	0.80	0.80	0.80
Solar Photovoltaic 5/	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.17
Wind	8.92	11.50	15.90	20.21	20.61	25.61	27.26	27.78	28.50	29.03	29.63	30.08	30.75
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	93.46	96.34	101.16	105.57	106.01	111.63	113.72	114.43	115.43	116.37	117.32	118.21	119.15
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	266.91	285.07	258.56	267.99	282.86	289.47	296.28	296.30	297.19	297.20	297.22	297.24	297.25
Geothermal 2/	14.69	14.84	16.19	16.82	17.03	17.52	18.61	19.60	20.00	20.39	20.79	20.93	21.58
Biogenic Municipal Waste 6/	12.70	13.46	14.50	14.53	14.54	18.85	18.85	18.85	18.85	18.85	18.85	18.85	18.85
Wood and Other Biomass 4/	10.57	10.97	12.31	12.84	13.11	22.98	21.92	26.89	31.87	37.32	42.96	52.17	56.06
Solar Thermal	0.54	0.49	0.92	1.13	1.14	1.15	1.16	1.42	1.69	1.96	1.97	1.99	2.00
Solar Photovoltaic 5/	0.02	0.01	0.08	0.11	0.14	0.16	0.19	0.22	0.25	0.29	0.32	0.36	0.40
Wind	17.81	25.78	38.12	49.91	56.84	74.13	79.38	81.08	83.44	85.20	87.19	88.65	90.89
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	323.23	350.62	340.66	363.32	385.66	424.27	436.38	444.36	453.29	461.20	469.30	480.18	487.03
Energy Consumption 7/ (quadrillion Btu)													
Conventional Hydropower	2.67	2.86	2.59	2.69	2.83	2.90	2.97	2.97	2.98	2.98	2.98	2.98	2.98
Geothermal 2/	0.31	0.31	0.34	0.35	0.36	0.37	0.41	0.44	0.45	0.47	0.48	0.48	0.50
Biogenic Municipal Waste 6/	0.17	0.18	0.20	0.20	0.20	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Wood and Other Biomass 4/	0.08	0.09	0.18	0.18	0.19	0.28	0.28	0.33	0.38	0.43	0.48	0.58	0.62
Solar Thermal	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.18	0.26	0.38	0.50	0.57	0.74	0.80	0.81	0.84	0.85	0.87	0.89	0.91
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.43	3.71	3.70	3.93	4.16	4.57	4.72	4.82	4.92	5.01	5.10	5.21	5.29

Table 91. Renewable Energy Generation by Fuel
United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
End-Use Generators 8/													
Generating Capacity (gigawatts)													
Conventional Hydropower 9/	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Wood and Other Biomass 4/	4.72	4.64	4.66	4.68	4.68	4.89	5.03	5.09	5.70	6.19	6.37	6.50	6.64
Solar Photovoltaic 5/	0.18	0.27	0.45	0.57	0.60	0.67	0.68	0.69	0.71	0.72	0.77	0.83	0.89
Wind	0.01	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06
Total	5.96	6.00	6.20	6.34	6.38	6.65	6.80	6.88	7.50	8.00	8.24	8.43	8.64
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 9/	3.46	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	2.71	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
Wood and Other Biomass 4/	28.33	28.44	28.56	28.63	28.69	29.98	30.79	31.17	35.69	39.22	40.51	41.39	42.38
Solar Photovoltaic 5/	0.28	0.43	0.72	0.92	0.96	1.07	1.09	1.11	1.13	1.16	1.25	1.34	1.44
Wind	0.02	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.08
Total	34.79	34.98	35.40	35.67	35.77	37.17	38.01	38.40	42.95	46.50	47.88	48.87	49.97
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass 4/	0.37	0.37	0.37	0.37	0.37	0.38	0.39	0.40	0.49	0.54	0.57	0.60	0.63
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.46	0.46	0.47	0.47	0.47	0.48	0.49	0.50	0.59	0.64	0.67	0.70	0.73

Table 91. Renewable Energy Generation by Fuel
United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric Power Sector 1/														
Generating Capacity (gigawatts)														
Conventional Hydropower	77.26	77.26	77.26	77.26	77.26	77.26	77.26	77.26	77.26	77.26	77.26	77.32	77.32	0.0%
Geothermal 2/	3.03	3.14	3.28	3.33	3.43	3.56	3.66	3.77	3.86	3.95	4.03	4.08	4.18	2.5%
Municipal Waste 3/	3.99	3.99	4.02	4.02	4.03	4.03	4.06	4.06	4.06	4.06	4.06	4.06	4.06	0.8%
Wood and Other Biomass 4/	3.61	4.18	4.39	4.46	4.54	4.59	4.70	4.84	4.99	5.08	5.12	5.20	5.58	4.3%
Solar Thermal	0.81	0.81	0.82	0.82	0.83	0.83	0.83	0.84	0.84	0.85	0.85	0.86	0.86	3.2%
Solar Photovoltaic 5/	0.18	0.20	0.22	0.23	0.25	0.27	0.29	0.30	0.32	0.34	0.36	0.37	0.39	11.2%
Wind	31.13	31.73	33.64	34.03	34.33	35.27	36.18	37.18	37.56	37.82	39.41	39.66	40.15	5.3%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	120.01	121.31	123.62	124.15	124.67	125.81	126.98	128.26	128.91	129.37	131.09	131.55	132.54	1.3%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower	297.96	297.98	298.00	298.01	298.03	298.05	298.07	298.09	298.11	298.13	298.16	298.51	298.53	0.2%
Geothermal 2/	22.00	22.82	23.96	24.34	25.14	26.17	26.99	27.84	28.57	29.29	29.87	30.27	31.05	3.1%
Biogenic Municipal Waste 6/	18.85	18.85	19.08	19.08	19.20	19.20	19.43	19.46	19.46	19.47	19.47	19.47	19.47	1.6%
Wood and Other Biomass 4/	65.38	71.80	77.53	78.16	78.57	80.52	81.43	83.30	83.41	83.78	84.96	84.88	82.55	8.8%
Solar Thermal	2.01	2.02	2.04	2.05	2.07	2.08	2.10	2.11	2.13	2.14	2.15	2.17	2.18	6.4%
Solar Photovoltaic 5/	0.43	0.48	0.52	0.56	0.61	0.65	0.70	0.74	0.78	0.83	0.87	0.92	0.96	19.6%
Wind	92.16	94.15	101.23	102.52	103.58	106.71	109.70	113.14	114.46	115.33	120.72	121.53	123.18	6.7%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	498.80	508.11	522.35	524.72	527.20	533.38	538.41	544.68	546.93	548.97	556.20	557.74	557.91	2.0%
Energy Consumption 7/ (quadrillion Btu)														
Conventional Hydropower	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	0.2%
Geothermal 2/	0.51	0.54	0.58	0.59	0.61	0.65	0.67	0.70	0.72	0.75	0.77	0.78	0.80	4.0%
Biogenic Municipal Waste 6/	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	1.6%
Wood and Other Biomass 4/	0.71	0.77	0.82	0.82	0.83	0.85	0.86	0.87	0.87	0.87	0.89	0.88	0.86	9.9%
Solar Thermal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	6.4%
Solar Photovoltaic 5/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	19.6%
Wind	0.92	0.94	1.01	1.03	1.04	1.07	1.10	1.13	1.15	1.16	1.21	1.22	1.23	6.7%
Offshore Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total	5.42	5.53	5.69	5.72	5.76	5.84	5.91	5.99	6.03	6.06	6.14	6.17	6.18	2.2%

Table 91. Renewable Energy Generation by Fuel
United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
End-Use Generators 8/														
Generating Capacity (gigawatts)														
Conventional Hydropower 9/	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.0%
Wood and Other Biomass 4/	7.02	7.75	8.57	8.56	9.64	10.55	11.59	12.21	12.28	12.39	12.52	12.62	12.60	4.3%
Solar Photovoltaic 5/	0.96	1.04	1.13	1.23	1.34	1.47	1.61	1.77	1.94	2.12	2.33	2.55	2.80	10.2%
Wind	0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.24	0.26	8.0%
Total	9.10	9.92	10.85	10.94	12.15	13.20	14.41	15.20	15.45	15.76	16.12	16.46	16.72	4.4%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower 9/	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	0.0%
Wood and Other Biomass 4/	45.14	50.62	57.01	57.45	66.16	72.66	80.29	84.75	85.09	85.76	86.61	87.22	86.99	4.8%
Solar Photovoltaic 5/	1.56	1.69	1.85	2.01	2.21	2.43	2.69	2.97	3.26	3.58	3.93	4.33	4.76	10.6%
Wind	0.10	0.11	0.13	0.15	0.18	0.20	0.22	0.24	0.27	0.30	0.32	0.35	0.38	8.3%
Total	52.86	58.49	65.05	65.68	74.61	81.35	89.26	94.02	94.68	95.70	96.92	97.96	98.19	4.4%
Energy Consumption (quadrillion Btu)														
Conventional Hydropower 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Wood and Other Biomass 4/	0.67	0.71	0.75	0.80	0.86	0.93	1.00	1.08	1.12	1.13	1.13	1.14	1.14	4.9%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	10.6%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.3%
Total	0.77	0.81	0.85	0.91	0.96	1.03	1.10	1.18	1.23	1.23	1.24	1.25	1.26	4.2%

Table 91. Renewable Energy Generation by Fuel
United States

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes all municipal waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal waste is included, although a portion of the municipal waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2005, EIA estimates that as much as 192 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2005, plus an additional 481 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007), Table 10.8 (annual PV shipments, 1989-2005). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

7/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatthour.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Represents own-use industrial hydroelectric power.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 are model results and may differ slightly from official EIA data reports.

Sources: 2005 and 2006 generation: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 92. Domestic Refinery Distillation Base Capacity, and Expansion (million barrels per day)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
PAD District I													
Base Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
PAD District II													
Base Capacity	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Capacity Additions	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Capacity	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
PAD District III													
Base Capacity	8.1	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Capacity Additions	0.0	0.0	0.0	0.1	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total Capacity	8.1	8.3	8.4	8.4	8.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
PAD District IV													
Base Capacity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Capacity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
PAD District V													
Base Capacity	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Capacity	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
United States													
Base Capacity	17.1	17.3	17.5	17.5	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
Capacity Additions	0.0	0.0	0.0	0.2	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Total Capacity	17.1	17.3	17.5	17.5	17.9	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3

Table 92. Domestic Refinery Distillation Base Capacity, and Expansion (million barrels per day)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
PAD District I														
Base Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0%
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0%
PAD District II														
Base Capacity	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0%
Capacity Additions	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Total Capacity	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.2%
PAD District III														
Base Capacity	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	0.0%
Capacity Additions	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--
Total Capacity	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	0.3%
PAD District IV														
Base Capacity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0%
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	--
Total Capacity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.9%
PAD District V														
Base Capacity	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0%
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	--
Total Capacity	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	0.1%
United States														
Base Capacity	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	0.0%
Capacity Additions	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	--
Total Capacity	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.4	18.4	0.3%

Table 92. Domestic Refinery Distillation Base Capacity, and Expansion (million barrels per day)

PAD = Petroleum Administration for Defense.

-- = Not applicable.

Note: Base capacity is operable capacity for the beginning of the year. Capacity additions are cumulative additions after December 31, 2004.

Sources: 2006: Energy Information Administration (EIA), Petroleum Supply Annual 2006, DOE/EIA-0340(2006)/1 (Washington, DC, September 2007). 2005: EIA, Petroleum Supply Annual 2005, DOE/EIA-0340(2005)/1 (Washington, DC, October 2006). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 93. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.63	2.81	2.91	3.24	2.92	2.83	2.78	2.67	2.60	2.59	2.53	2.46	2.46
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Distribution Costs	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Wholesale Price	1.86	2.04	2.16	2.49	2.18	2.09	2.04	1.94	1.87	1.87	1.81	1.75	1.75
Motor Gasoline (All Sectors)													
End-User Price	2.44	2.70	2.84	3.07	2.69	2.58	2.55	2.46	2.38	2.37	2.29	2.23	2.24
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Distribution Costs	0.15	0.15	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Wholesale Price	1.83	2.09	2.21	2.59	2.10	1.99	1.97	1.89	1.82	1.81	1.74	1.68	1.69
Jet Fuel													
End-User Price	1.82	2.06	2.08	2.19	2.33	2.25	2.19	2.08	1.99	1.94	1.86	1.78	1.78
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distribution Costs	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wholesale Price	1.70	1.94	1.96	2.42	2.21	2.13	2.07	1.96	1.87	1.83	1.75	1.66	1.67
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.31	2.44	2.65	3.01	2.49	2.40	2.30	2.20	2.11	2.07	1.99	1.93	1.93
Distribution Costs	0.43	0.43	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Wholesale Price	1.88	2.01	2.23	2.31	2.07	1.98	1.89	1.79	1.69	1.65	1.57	1.51	1.51
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.03	1.87	1.79	1.73	1.66	1.59	1.52	1.45	1.38	1.38
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.28	1.48	1.53	1.85	1.70	1.63	1.56	1.49	1.42	1.36	1.29	1.23	1.23

Table 93. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.48	2.55	2.60	2.58	2.60	2.60	2.61	2.64	2.67	2.69	2.71	2.74	2.77	-0.1%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Distribution Costs	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-0.1%
Wholesale Price	1.77	1.84	1.90	1.88	1.90	1.91	1.92	1.96	1.99	2.01	2.04	2.07	2.10	0.1%
Motor Gasoline (All Sectors)														
End-User Price	2.27	2.35	2.41	2.38	2.42	2.42	2.42	2.45	2.46	2.48	2.51	2.53	2.55	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.2%
Distribution Costs	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	-0.7%
Wholesale Price	1.72	1.80	1.86	1.84	1.88	1.88	1.89	1.92	1.93	1.95	1.98	2.01	2.03	-0.1%
Jet Fuel														
End-User Price	1.80	1.82	1.84	1.86	1.88	1.90	1.93	1.95	1.98	2.01	2.04	2.08	2.11	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Distribution Costs	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wholesale Price	1.69	1.71	1.73	1.75	1.77	1.79	1.82	1.85	1.87	1.91	1.94	1.97	2.00	0.1%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.95	1.97	1.99	2.00	2.01	2.04	2.07	2.10	2.13	2.16	2.19	2.23	2.26	-0.3%
Distribution Costs	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	-0.1%
Wholesale Price	1.53	1.55	1.57	1.58	1.60	1.63	1.66	1.69	1.72	1.75	1.78	1.81	1.85	-0.4%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.41	1.43	1.45	1.47	1.49	1.51	1.54	1.56	1.59	1.62	1.65	1.68	1.71	0.3%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.25	1.27	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.43	1.45	1.48	1.47	0.0%

Table 93. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
New England - 01

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 94. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.54	2.72	2.82	3.13	2.89	2.80	2.75	2.65	2.57	2.57	2.51	2.44	2.44
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Distribution Costs	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Wholesale Price	1.78	1.97	2.09	2.40	2.16	2.08	2.03	1.93	1.86	1.86	1.80	1.74	1.74
Motor Gasoline (All Sectors)													
End-User Price	2.43	2.71	2.85	3.08	2.86	2.57	2.54	2.46	2.39	2.37	2.30	2.24	2.25
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.27	0.28	0.27	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26
Distribution Costs	0.20	0.20	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Wholesale Price	1.76	2.05	2.18	2.53	2.24	1.97	1.93	1.86	1.79	1.78	1.71	1.65	1.66
Jet Fuel													
End-User Price	1.79	2.01	2.03	2.13	2.21	2.14	2.08	1.98	1.89	1.85	1.77	1.70	1.70
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	1.69	1.91	1.93	2.33	2.11	2.05	1.99	1.88	1.80	1.76	1.68	1.61	1.61
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.40	2.54	2.70	3.06	2.51	2.42	2.32	2.23	2.13	2.09	2.01	1.95	1.95
Distribution Costs	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Wholesale Price	1.91	2.05	2.22	2.28	2.04	1.95	1.85	1.75	1.65	1.62	1.54	1.48	1.48
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.03	1.87	1.79	1.73	1.66	1.59	1.52	1.45	1.38	1.38
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.28	1.48	1.53	1.85	1.70	1.63	1.56	1.49	1.42	1.36	1.29	1.23	1.23

Table 94. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.45	2.52	2.57	2.55	2.57	2.57	2.58	2.61	2.64	2.66	2.68	2.71	2.74	0.0%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.0%
Distribution Costs	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	-0.1%
Wholesale Price	1.76	1.83	1.89	1.87	1.89	1.90	1.91	1.95	1.98	2.00	2.03	2.06	2.09	0.3%
Motor Gasoline (All Sectors)														
End-User Price	2.27	2.34	2.40	2.38	2.42	2.42	2.42	2.44	2.45	2.47	2.50	2.52	2.54	-0.3%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-0.2%
Distribution Costs	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	-0.7%
Wholesale Price	1.69	1.77	1.82	1.81	1.85	1.85	1.86	1.88	1.89	1.91	1.94	1.96	1.99	-0.1%
Jet Fuel														
End-User Price	1.72	1.75	1.77	1.79	1.81	1.84	1.86	1.89	1.92	1.95	1.98	2.01	2.05	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wholesale Price	1.63	1.66	1.68	1.70	1.72	1.75	1.78	1.80	1.83	1.87	1.90	1.93	1.97	0.1%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.97	1.99	2.01	2.02	2.04	2.07	2.10	2.13	2.16	2.19	2.22	2.25	2.28	-0.4%
Distribution Costs	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	-0.1%
Wholesale Price	1.50	1.52	1.53	1.55	1.56	1.59	1.62	1.65	1.69	1.71	1.74	1.77	1.81	-0.5%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.41	1.43	1.45	1.47	1.49	1.51	1.54	1.56	1.59	1.62	1.65	1.68	1.71	0.3%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.25	1.27	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.43	1.45	1.48	1.47	0.0%

Table 94. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
Middle Atlantic - 02

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 95. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.48	2.68	2.78	3.09	2.80	2.70	2.68	2.55	2.47	2.47	2.41	2.34	2.34
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Distribution Costs	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Wholesale Price	1.82	2.04	2.15	2.46	2.17	2.08	2.06	1.94	1.86	1.86	1.81	1.74	1.75
Motor Gasoline (All Sectors)													
End-User Price	2.39	2.62	2.75	2.98	2.77	2.55	2.51	2.44	2.37	2.36	2.29	2.23	2.24
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Wholesale Price	1.79	2.03	2.13	2.49	2.21	2.00	1.97	1.90	1.83	1.82	1.75	1.70	1.71
Jet Fuel													
End-User Price	1.76	1.95	1.98	2.07	2.16	2.09	2.04	1.93	1.84	1.80	1.72	1.66	1.67
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
Wholesale Price	1.72	1.92	1.94	2.38	2.13	2.06	2.01	1.90	1.81	1.77	1.69	1.64	1.64
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.27	2.40	2.59	2.99	2.38	2.28	2.18	2.07	1.97	1.93	1.85	1.79	1.79
Distribution Costs	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Wholesale Price	1.94	2.07	2.26	2.29	2.05	1.96	1.86	1.75	1.65	1.61	1.52	1.47	1.47
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	1.99	1.83	1.76	1.70	1.63	1.56	1.49	1.43	1.36	1.36
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.18	1.38	1.46	1.71	1.59	1.50	1.44	1.38	1.32	1.25	1.19	1.12	1.12

Table 95. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.36	2.43	2.48	2.45	2.47	2.48	2.48	2.52	2.54	2.57	2.59	2.62	2.66	0.0%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.0%
Distribution Costs	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	-0.1%
Wholesale Price	1.77	1.84	1.89	1.87	1.90	1.91	1.91	1.95	1.98	2.01	2.03	2.06	2.11	0.2%
Motor Gasoline (All Sectors)														
End-User Price	2.26	2.34	2.40	2.37	2.38	2.39	2.39	2.42	2.43	2.44	2.47	2.50	2.52	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	-0.1%
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.2%
Wholesale Price	1.74	1.82	1.88	1.85	1.87	1.88	1.88	1.91	1.93	1.94	1.97	2.00	2.02	0.0%
Jet Fuel														
End-User Price	1.69	1.71	1.73	1.75	1.77	1.80	1.82	1.85	1.87	1.91	1.94	1.97	2.00	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.0%
Wholesale Price	1.66	1.68	1.70	1.73	1.75	1.77	1.80	1.83	1.86	1.89	1.92	1.95	1.98	0.1%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.81	1.83	1.84	1.86	1.88	1.91	1.94	1.97	2.00	2.03	2.06	2.09	2.11	-0.5%
Distribution Costs	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	-0.1%
Wholesale Price	1.49	1.51	1.52	1.54	1.56	1.58	1.62	1.64	1.68	1.70	1.73	1.77	1.79	-0.6%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.38	1.40	1.42	1.44	1.46	1.49	1.51	1.54	1.56	1.59	1.62	1.65	1.68	0.3%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.14	1.15	1.17	1.18	1.20	1.22	1.24	1.26	1.28	1.31	1.33	1.35	1.38	0.0%

Table 95. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
East North Central - 03

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 96. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.43	2.76	2.86	3.18	2.76	2.66	2.64	2.51	2.43	2.43	2.37	2.30	2.30
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Wholesale Price	1.84	2.17	2.28	2.60	2.19	2.10	2.08	1.96	1.88	1.88	1.82	1.76	1.77
Motor Gasoline (All Sectors)													
End-User Price	2.35	2.56	2.69	2.91	2.78	2.54	2.50	2.43	2.36	2.34	2.27	2.22	2.22
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.23	0.24	0.23	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Wholesale Price	1.78	1.99	2.09	2.49	2.24	2.00	1.97	1.90	1.84	1.83	1.76	1.71	1.72
Jet Fuel													
End-User Price	1.79	2.02	2.04	2.14	2.25	2.15	2.09	1.98	1.89	1.85	1.77	1.71	1.71
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
Wholesale Price	1.72	1.95	1.98	2.42	2.18	2.09	2.03	1.92	1.83	1.79	1.71	1.65	1.65
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.19	2.32	2.56	2.98	2.26	2.18	2.10	1.99	1.89	1.86	1.77	1.71	1.71
Distribution Costs	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wholesale Price	1.94	2.06	2.31	2.31	2.02	1.94	1.86	1.75	1.65	1.61	1.53	1.47	1.47
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	1.99	1.83	1.76	1.70	1.63	1.56	1.49	1.43	1.36	1.36
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.18	1.38	1.46	1.71	1.59	1.50	1.44	1.38	1.32	1.25	1.19	1.12	1.12

Table 96. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.32	2.38	2.44	2.41	2.43	2.44	2.44	2.47	2.50	2.52	2.54	2.58	2.62	-0.2%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.2%
Wholesale Price	1.79	1.86	1.91	1.89	1.91	1.92	1.93	1.97	2.00	2.02	2.05	2.08	2.13	-0.1%
Motor Gasoline (All Sectors)														
End-User Price	2.25	2.32	2.38	2.35	2.37	2.38	2.38	2.40	2.42	2.43	2.46	2.48	2.51	-0.1%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	-0.1%
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.1%
Wholesale Price	1.75	1.82	1.88	1.86	1.88	1.88	1.89	1.92	1.93	1.95	1.98	2.01	2.03	0.1%
Jet Fuel														
End-User Price	1.73	1.75	1.77	1.79	1.81	1.83	1.86	1.89	1.91	1.94	1.97	2.00	2.04	0.0%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	0.0%
Wholesale Price	1.67	1.70	1.71	1.74	1.76	1.78	1.81	1.83	1.86	1.89	1.92	1.95	1.99	0.1%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.73	1.75	1.77	1.78	1.80	1.83	1.86	1.89	1.93	1.95	1.98	2.01	2.04	-0.5%
Distribution Costs	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	-0.1%
Wholesale Price	1.49	1.51	1.52	1.54	1.56	1.59	1.62	1.65	1.68	1.71	1.74	1.77	1.79	-0.6%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.38	1.40	1.42	1.44	1.46	1.49	1.51	1.54	1.56	1.59	1.62	1.65	1.68	0.3%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.14	1.15	1.17	1.18	1.20	1.22	1.24	1.26	1.28	1.31	1.33	1.35	1.38	0.0%

Table 96. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
West North Central - 04

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 97. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
South Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.42	2.63	2.73	3.04	2.74	2.64	2.62	2.49	2.41	2.41	2.35	2.28	2.28
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wholesale Price	1.80	2.02	2.13	2.44	2.15	2.06	2.03	1.91	1.84	1.84	1.78	1.71	1.72
Motor Gasoline (All Sectors)													
End-User Price	2.28	2.54	2.67	2.89	2.71	2.52	2.40	2.33	2.26	2.24	2.18	2.12	2.13
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Distribution Costs	0.14	0.14	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Wholesale Price	1.73	2.01	2.13	2.51	2.23	2.05	1.93	1.86	1.80	1.79	1.72	1.67	1.68
Jet Fuel													
End-User Price	1.75	2.01	2.03	2.13	2.29	2.22	2.16	2.06	1.97	1.93	1.85	1.80	1.80
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distribution Costs	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Wholesale Price	1.58	1.84	1.87	2.38	2.13	2.06	2.00	1.89	1.81	1.77	1.69	1.64	1.64
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.39	2.52	2.68	2.98	2.48	2.39	2.29	2.19	2.09	2.06	1.98	1.92	1.92
Distribution Costs	0.48	0.48	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Wholesale Price	1.91	2.05	2.22	2.26	2.01	1.92	1.83	1.73	1.63	1.59	1.51	1.45	1.46
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.03	1.87	1.79	1.73	1.66	1.59	1.52	1.45	1.38	1.38
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.28	1.48	1.53	1.85	1.70	1.63	1.56	1.49	1.42	1.36	1.29	1.23	1.23

Table 97. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
South Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.30	2.36	2.42	2.39	2.41	2.42	2.42	2.45	2.48	2.51	2.53	2.56	2.60	-0.1%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Distribution Costs	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	-0.1%
Wholesale Price	1.74	1.81	1.87	1.85	1.87	1.88	1.89	1.92	1.96	1.98	2.00	2.04	2.09	0.1%
Motor Gasoline (All Sectors)														
End-User Price	2.15	2.23	2.28	2.26	2.27	2.28	2.28	2.30	2.32	2.33	2.36	2.38	2.41	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	-0.2%
Distribution Costs	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	-1.0%
Wholesale Price	1.71	1.78	1.84	1.82	1.83	1.84	1.84	1.87	1.89	1.91	1.94	1.96	1.99	0.0%
Jet Fuel														
End-User Price	1.82	1.84	1.86	1.89	1.91	1.93	1.96	1.99	2.01	2.05	2.08	2.11	2.14	0.3%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Distribution Costs	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Wholesale Price	1.66	1.69	1.71	1.73	1.75	1.78	1.80	1.83	1.86	1.89	1.93	1.96	1.99	0.3%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.94	1.96	1.97	1.99	2.00	2.03	2.06	2.09	2.13	2.15	2.18	2.22	2.25	-0.5%
Distribution Costs	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	-0.1%
Wholesale Price	1.47	1.50	1.51	1.53	1.54	1.57	1.60	1.63	1.66	1.69	1.72	1.75	1.79	-0.6%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.41	1.43	1.45	1.47	1.49	1.51	1.54	1.56	1.59	1.62	1.65	1.68	1.71	0.3%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.25	1.27	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.43	1.45	1.48	1.47	0.0%

Table 97. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
South Atlantic - 05

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 98. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.39	2.63	2.73	3.04	2.78	2.68	2.65	2.52	2.45	2.44	2.38	2.31	2.32
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Distribution Costs	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Wholesale Price	1.79	2.04	2.15	2.46	2.21	2.11	2.09	1.96	1.89	1.89	1.84	1.77	1.78
Motor Gasoline (All Sectors)													
End-User Price	2.29	2.53	2.66	2.88	2.70	2.52	2.39	2.32	2.26	2.24	2.17	2.12	2.13
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.15	0.15	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Wholesale Price	1.73	1.97	2.09	2.49	2.21	2.03	1.91	1.84	1.78	1.76	1.70	1.65	1.66
Jet Fuel													
End-User Price	1.75	1.96	1.98	2.08	2.18	2.11	2.06	1.95	1.87	1.83	1.75	1.70	1.71
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	1.65	1.86	1.89	2.34	2.09	2.02	1.96	1.86	1.78	1.74	1.66	1.61	1.62
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.42	2.56	2.86	3.18	2.45	2.35	2.24	2.13	2.04	2.00	1.91	1.85	1.85
Distribution Costs	0.44	0.44	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Wholesale Price	1.99	2.12	2.44	2.27	2.02	1.93	1.82	1.71	1.61	1.58	1.49	1.43	1.43
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.03	1.87	1.80	1.73	1.66	1.60	1.53	1.46	1.39	1.39
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.18	1.39	1.47	1.71	1.59	1.52	1.46	1.40	1.33	1.27	1.21	1.15	1.15

Table 98. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.33	2.40	2.45	2.43	2.45	2.45	2.46	2.49	2.52	2.54	2.56	2.59	2.64	0.0%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Distribution Costs	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-0.1%
Wholesale Price	1.80	1.87	1.92	1.90	1.93	1.94	1.95	1.98	2.01	2.04	2.06	2.10	2.15	0.2%
Motor Gasoline (All Sectors)														
End-User Price	2.15	2.22	2.28	2.25	2.27	2.27	2.27	2.30	2.31	2.33	2.35	2.38	2.40	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	-0.2%
Distribution Costs	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.9%
Wholesale Price	1.69	1.76	1.82	1.80	1.81	1.82	1.82	1.85	1.87	1.89	1.91	1.94	1.97	0.0%
Jet Fuel														
End-User Price	1.73	1.75	1.77	1.80	1.82	1.85	1.87	1.90	1.93	1.96	2.00	2.03	2.06	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wholesale Price	1.64	1.67	1.69	1.71	1.74	1.76	1.79	1.82	1.85	1.88	1.91	1.95	1.98	0.3%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.87	1.89	1.91	1.93	1.95	1.98	2.01	2.04	2.07	2.10	2.13	2.16	2.18	-0.7%
Distribution Costs	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	-0.1%
Wholesale Price	1.45	1.47	1.49	1.50	1.53	1.55	1.59	1.61	1.65	1.67	1.70	1.74	1.76	-0.8%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.41	1.43	1.45	1.47	1.50	1.52	1.54	1.57	1.60	1.63	1.66	1.69	1.71	0.4%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.16	1.18	1.20	1.21	1.23	1.25	1.27	1.29	1.32	1.27	1.29	1.31	1.34	-0.2%

Table 98. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
East South Central - 06

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 99. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.38	2.63	2.73	3.04	2.74	2.64	2.62	2.49	2.41	2.41	2.35	2.28	2.28
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Distribution Costs	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wholesale Price	1.77	2.03	2.14	2.45	2.16	2.07	2.04	1.92	1.85	1.85	1.79	1.72	1.73
Motor Gasoline (All Sectors)													
End-User Price	2.25	2.51	2.64	2.85	2.68	2.49	2.36	2.29	2.22	2.21	2.14	2.08	2.09
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.15	0.15	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Wholesale Price	1.67	1.93	2.09	2.48	2.20	2.01	1.89	1.82	1.76	1.75	1.68	1.63	1.64
Jet Fuel													
End-User Price	1.71	1.95	1.98	2.07	2.17	2.10	2.03	1.92	1.84	1.79	1.71	1.65	1.65
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distribution Costs	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
Wholesale Price	1.68	1.92	1.94	2.38	2.14	2.06	2.00	1.89	1.81	1.76	1.68	1.63	1.63
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.14	2.26	2.53	2.81	2.31	2.22	2.12	2.02	1.93	1.89	1.81	1.75	1.75
Distribution Costs	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Wholesale Price	1.85	1.97	2.25	2.27	2.03	1.94	1.84	1.74	1.65	1.61	1.53	1.47	1.47
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.03	1.87	1.80	1.73	1.66	1.60	1.53	1.46	1.39	1.39
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.18	1.39	1.47	1.71	1.59	1.52	1.46	1.40	1.33	1.27	1.21	1.15	1.15

Table 99. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.30	2.37	2.42	2.39	2.41	2.42	2.42	2.46	2.48	2.51	2.53	2.56	2.60	-0.1%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Distribution Costs	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	-0.1%
Wholesale Price	1.75	1.82	1.88	1.86	1.88	1.89	1.90	1.93	1.97	1.99	2.01	2.05	2.10	0.1%
Motor Gasoline (All Sectors)														
End-User Price	2.12	2.19	2.25	2.22	2.24	2.24	2.24	2.27	2.28	2.30	2.32	2.35	2.37	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	-0.2%
Distribution Costs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-2.3%
Wholesale Price	1.67	1.74	1.80	1.78	1.80	1.81	1.81	1.84	1.85	1.87	1.90	1.93	1.95	0.0%
Jet Fuel														
End-User Price	1.67	1.70	1.71	1.73	1.75	1.78	1.80	1.83	1.86	1.89	1.92	1.95	1.98	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Distribution Costs	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	0.0%
Wholesale Price	1.65	1.67	1.69	1.71	1.73	1.75	1.78	1.81	1.83	1.87	1.90	1.93	1.96	0.1%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.77	1.79	1.81	1.82	1.84	1.86	1.90	1.92	1.96	1.98	2.01	2.05	2.08	-0.3%
Distribution Costs	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	-0.1%
Wholesale Price	1.49	1.51	1.53	1.54	1.56	1.58	1.62	1.64	1.68	1.70	1.73	1.77	1.80	-0.4%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.41	1.43	1.45	1.47	1.50	1.52	1.54	1.57	1.60	1.63	1.66	1.69	1.71	0.4%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.16	1.18	1.20	1.21	1.23	1.25	1.27	1.29	1.32	1.27	1.29	1.31	1.34	-0.2%

Table 99. Components of Selected Petroleum Products Prices (2006 dollars per gallon)
West South Central - 07

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 100. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.60	2.90	3.01	3.34	2.87	2.77	2.75	2.63	2.55	2.54	2.48	2.41	2.42
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Wholesale Price	1.97	2.28	2.40	2.74	2.27	2.18	2.15	2.03	1.96	1.96	1.90	1.84	1.84
Motor Gasoline (All Sectors)													
End-User Price	2.47	2.67	2.81	3.04	2.77	2.59	2.46	2.39	2.32	2.30	2.24	2.18	2.19
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Wholesale Price	1.88	2.10	2.19	2.37	2.22	2.05	1.92	1.86	1.79	1.78	1.71	1.66	1.67
Jet Fuel													
End-User Price	1.86	2.05	2.07	2.18	2.28	2.15	2.16	2.05	1.95	1.91	1.82	1.76	1.76
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	1.77	1.97	1.99	2.44	2.20	2.07	2.08	1.97	1.88	1.83	1.75	1.69	1.69
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.35	2.48	2.71	3.16	2.29	2.18	2.11	2.00	1.91	1.87	1.78	1.73	1.73
Distribution Costs	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Wholesale Price	2.12	2.25	2.48	2.27	2.06	1.95	1.89	1.78	1.68	1.64	1.56	1.50	1.50
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.02	1.86	1.79	1.72	1.65	1.58	1.51	1.44	1.37	1.38
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.21	1.40	1.47	1.68	1.55	1.49	1.43	1.37	1.31	1.25	1.19	1.14	1.14

Table 100. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.43	2.50	2.55	2.52	2.54	2.55	2.55	2.59	2.61	2.64	2.66	2.69	2.73	-0.3%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.1%
Wholesale Price	1.86	1.93	1.99	1.97	1.99	2.00	2.01	2.04	2.08	2.10	2.12	2.16	2.21	-0.1%
Motor Gasoline (All Sectors)														
End-User Price	2.21	2.29	2.35	2.29	2.30	2.32	2.30	2.29	2.30	2.29	2.30	2.31	2.31	-0.6%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	-0.2%
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.1%
Wholesale Price	1.70	1.78	1.84	1.78	1.80	1.82	1.80	1.79	1.81	1.80	1.81	1.83	1.83	-0.6%
Jet Fuel														
End-User Price	1.78	1.80	1.82	1.83	1.85	1.88	1.90	1.93	1.95	1.98	2.01	2.04	2.08	0.0%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wholesale Price	1.71	1.72	1.74	1.76	1.78	1.80	1.83	1.85	1.88	1.91	1.94	1.97	2.01	0.1%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.75	1.77	1.80	1.80	1.83	1.87	1.92	1.94	1.99	2.00	2.03	2.06	2.08	-0.7%
Distribution Costs	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	-0.1%
Wholesale Price	1.52	1.54	1.57	1.58	1.60	1.64	1.69	1.71	1.76	1.78	1.80	1.84	1.86	-0.8%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.40	1.42	1.44	1.46	1.48	1.51	1.53	1.56	1.58	1.61	1.64	1.67	1.70	0.3%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.16	1.17	1.19	1.20	1.22	1.18	1.19	1.28	1.30	1.26	1.28	1.38	1.32	-0.2%

Table 100. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
Mountain - 08

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 101. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.72	2.82	2.92	3.25	2.77	2.72	2.59	2.57	2.61	2.61	2.54	2.52	2.51
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Wholesale Price	2.02	2.12	2.24	2.57	2.10	2.05	1.92	1.91	1.95	1.96	1.90	1.88	1.87
Motor Gasoline (All Sectors)													
End-User Price	2.62	2.75	2.89	3.12	2.76	2.65	2.66	2.58	2.51	2.50	2.43	2.36	2.38
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23
Distribution Costs	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wholesale Price	2.02	2.16	2.26	2.42	2.18	2.08	2.09	2.02	1.95	1.95	1.87	1.81	1.84
Jet Fuel													
End-User Price	1.89	2.03	2.06	2.16	2.14	2.10	2.11	2.01	1.92	1.88	1.80	1.75	1.78
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Distribution Costs	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wholesale Price	1.80	1.94	1.97	2.30	2.05	2.01	2.02	1.92	1.83	1.79	1.71	1.66	1.70
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.40	2.54	2.98	3.38	2.20	2.17	2.04	2.02	2.00	1.97	1.91	1.88	1.89
Distribution Costs	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Wholesale Price	2.07	2.21	2.66	2.15	1.88	1.85	1.73	1.70	1.68	1.65	1.59	1.56	1.57
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.07	1.91	1.83	1.76	1.69	1.62	1.55	1.48	1.41	1.41
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.20	1.40	1.48	1.89	1.75	1.68	1.61	1.55	1.49	1.42	1.35	1.28	1.29

Table 101. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.58	2.67	2.74	2.72	2.75	2.75	2.75	2.78	2.82	2.85	2.87	2.90	2.92	0.1%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	-0.1%
Wholesale Price	1.94	2.03	2.11	2.10	2.13	2.13	2.14	2.17	2.22	2.25	2.27	2.31	2.32	0.4%
Motor Gasoline (All Sectors)														
End-User Price	2.41	2.45	2.51	2.46	2.47	2.48	2.45	2.44	2.46	2.47	2.48	2.50	2.49	-0.4%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.23	0.23	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	-0.2%
Distribution Costs	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	-0.3%
Wholesale Price	1.86	1.91	1.97	1.92	1.94	1.95	1.92	1.92	1.93	1.95	1.96	1.98	1.98	-0.4%
Jet Fuel														
End-User Price	1.80	1.82	1.84	1.86	1.88	1.91	1.93	1.96	2.01	2.05	2.09	2.13	2.15	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Distribution Costs	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wholesale Price	1.72	1.74	1.76	1.78	1.80	1.83	1.85	1.88	1.93	1.98	2.01	2.06	2.08	0.3%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.93	1.97	2.01	2.03	2.05	2.09	2.13	2.15	2.20	2.25	2.28	2.32	2.34	-0.3%
Distribution Costs	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	-0.1%
Wholesale Price	1.62	1.65	1.69	1.71	1.73	1.77	1.81	1.84	1.89	1.93	1.96	2.00	2.02	-0.4%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.44	1.46	1.48	1.50	1.52	1.55	1.57	1.60	1.62	1.65	1.68	1.71	1.74	0.4%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.31	1.33	1.34	1.33	1.35	1.40	1.42	1.45	1.47	1.50	1.52	1.55	1.57	0.5%

Table 101. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
Pacific - 09

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 102. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
United States

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel (Transportation Sector)													
End-User Price	2.49	2.71	2.81	3.12	2.79	2.70	2.66	2.55	2.48	2.48	2.42	2.35	2.36
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Wholesale Price	1.84	2.07	2.18	2.50	2.17	2.08	2.04	1.94	1.88	1.88	1.82	1.76	1.77
Motor Gasoline (All Sectors)													
End-User Price	2.38	2.62	2.75	2.97	2.75	2.55	2.48	2.41	2.34	2.32	2.25	2.19	2.21
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15
State Taxes 1/	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Distribution Costs	0.15	0.15	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Wholesale Price	1.80	2.03	2.15	2.48	2.21	2.02	1.96	1.89	1.82	1.81	1.74	1.69	1.70
Jet Fuel													
End-User Price	1.80	2.00	2.03	2.12	2.20	2.13	2.09	1.99	1.90	1.85	1.78	1.72	1.73
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
State Taxes	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Distribution Costs	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wholesale Price	1.71	1.92	1.94	2.36	2.11	2.05	2.01	1.91	1.82	1.78	1.70	1.64	1.65
Residential Distillate Fuel Oil/ Heating Oil													
End-User Price	2.36	2.49	2.68	3.04	2.48	2.39	2.29	2.19	2.10	2.06	1.98	1.92	1.92
Distribution Costs	0.45	0.44	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Wholesale Price	1.91	2.04	2.25	2.28	2.04	1.95	1.85	1.75	1.66	1.62	1.54	1.48	1.49
Imported Low Sulfur Light Crude Oil Price 2/													
Imported Low Sulfur Light Crude Oil Price 2/	1.39	1.57	1.60	2.05	1.89	1.82	1.75	1.68	1.61	1.54	1.47	1.40	1.40
Imported Crude Oil Price 2/													
Imported Crude Oil Price 2/	1.20	1.41	1.48	1.76	1.63	1.55	1.49	1.43	1.37	1.30	1.24	1.18	1.18

Table 102. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
United States

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel (Transportation Sector)														
End-User Price	2.38	2.45	2.50	2.48	2.50	2.50	2.51	2.54	2.57	2.59	2.62	2.65	2.68	0.0%
Federal Taxes	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	-2.0%
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	-0.1%
Wholesale Price	1.79	1.87	1.93	1.91	1.93	1.94	1.95	1.98	2.02	2.04	2.07	2.10	2.14	0.1%
Motor Gasoline (All Sectors)														
End-User Price	2.23	2.30	2.36	2.32	2.34	2.35	2.34	2.36	2.37	2.38	2.41	2.43	2.45	-0.3%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	-2.1%
State Taxes 1/	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	-0.2%
Distribution Costs	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	-0.7%
Wholesale Price	1.73	1.80	1.86	1.83	1.85	1.86	1.86	1.88	1.89	1.91	1.93	1.96	1.97	-0.1%
Jet Fuel														
End-User Price	1.75	1.77	1.79	1.81	1.83	1.86	1.88	1.91	1.94	1.98	2.01	2.05	2.07	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.0%
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Distribution Costs	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.2%
Wholesale Price	1.68	1.70	1.72	1.74	1.76	1.79	1.81	1.84	1.87	1.91	1.94	1.98	2.01	0.2%
Residential Distillate Fuel Oil/ Heating Oil														
End-User Price	1.94	1.96	1.98	1.99	2.01	2.04	2.07	2.10	2.13	2.16	2.19	2.23	2.26	-0.4%
Distribution Costs	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	-0.1%
Wholesale Price	1.51	1.53	1.54	1.56	1.58	1.60	1.64	1.67	1.70	1.73	1.76	1.79	1.82	-0.5%
Imported Low Sulfur Light Crude Oil Price 2/														
Imported Low Sulfur Light Crude Oil Price 2/	1.42	1.45	1.47	1.49	1.51	1.53	1.56	1.58	1.61	1.64	1.67	1.70	1.73	0.4%
Imported Crude Oil Price 2/														
Imported Crude Oil Price 2/	1.19	1.21	1.23	1.24	1.26	1.28	1.30	1.33	1.35	1.33	1.35	1.38	1.40	0.0%

Table 102. Components of Selected Petroleum Product Prices (2006 dollars per gallon)
United States

1/ Includes a 2 cent average local tax.

2/ Weighted average price delivered to U.S. refiners.

-- = Not applicable.

Sources: 2006 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2006 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2006 jet fuel taxes: EIA, Office of Oil and Gas. 2005 and 2006 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 103. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Production 1/ (million barrels per day)													
Lower 48 Total	4.33	4.36	4.38	4.42	4.92	5.24	5.30	5.35	5.46	5.52	5.59	5.60	5.61
Lower 48 Onshore													
Northeast	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Gulf Coast	0.54	0.53	0.48	0.43	0.43	0.39	0.36	0.33	0.30	0.28	0.27	0.26	0.25
Midcontinent	0.31	0.31	0.32	0.32	0.33	0.33	0.32	0.32	0.31	0.30	0.29	0.29	0.29
Southwest	0.95	0.94	0.95	0.96	0.98	1.00	0.99	0.99	1.03	1.09	1.14	1.19	1.22
Rocky Mountain	0.45	0.48	0.49	0.52	0.60	0.65	0.68	0.70	0.72	0.73	0.74	0.75	0.75
West Coast	0.59	0.57	0.57	0.58	0.62	0.65	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Lower 48 Offshore													
Gulf	1.30	1.32	1.37	1.43	1.77	2.06	2.12	2.19	2.27	2.29	2.31	2.29	2.28
Shallow	0.33	0.35	0.33	0.33	0.35	0.34	0.33	0.31	0.31	0.31	0.31	0.30	0.30
Deep	0.97	0.97	1.04	1.10	1.42	1.71	1.78	1.88	1.96	1.98	2.01	1.99	1.98
Pacific	0.12	0.11	0.11	0.10	0.10	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wellhead Prices (2006 dollars per barrel)													
Lower 48 Average	52.37	60.18	68.21	82.28	82.64	78.45	74.98	70.26	65.63	61.76	57.71	53.94	53.68
Lower 48 Onshore													
Northeast	54.11	61.08	70.50	84.14	78.45	75.17	72.07	68.97	65.88	62.74	59.79	56.78	56.81
Gulf Coast	54.58	62.32	71.10	82.14	84.99	79.76	75.61	70.49	65.61	61.44	57.41	54.30	53.95
Midcontinent	55.47	61.91	72.26	82.17	74.44	70.89	66.22	61.66	57.42	54.27	50.63	47.95	48.25
Southwest	54.31	61.38	70.75	82.16	75.27	71.44	67.02	62.42	57.55	54.40	50.72	48.04	48.31
Rocky Mountain	52.48	56.95	68.37	83.64	78.57	74.73	70.03	65.30	60.86	57.34	53.54	50.67	50.78
West Coast	48.56	57.34	63.27	75.45	85.59	82.36	84.11	80.63	77.31	73.80	69.58	61.18	60.02
Lower 48 Offshore													
Gulf	51.43	60.85	67.00	85.43	88.39	82.95	78.63	73.31	68.23	63.90	59.70	56.47	56.11
Pacific	46.21	54.82	60.21	70.17	79.60	76.60	78.22	74.98	71.90	68.64	64.71	56.90	55.82
Atlantic	--	--	--	84.14	78.45	75.17	72.07	68.97	65.88	62.74	59.79	56.78	56.81

Table 103. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Production 1/ (million barrels per day)														
Lower 48 Total	5.63	5.60	5.53	5.47	5.46	5.47	5.51	5.51	5.55	5.52	5.42	5.35	5.30	0.8%
Lower 48 Onshore														
Northeast	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.06	-1.4%
Gulf Coast	0.24	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.12	-6.1%
Midcontinent	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.28	0.27	0.26	0.25	0.24	0.23	-1.4%
Southwest	1.24	1.26	1.25	1.25	1.24	1.24	1.25	1.25	1.26	1.27	1.27	1.28	1.28	1.3%
Rocky Mountain	0.75	0.75	0.75	0.75	0.76	0.81	0.89	0.96	0.99	1.01	1.02	1.01	1.00	3.1%
West Coast	0.68	0.68	0.69	0.69	0.70	0.70	0.70	0.71	0.71	0.71	0.71	0.70	0.70	0.8%
Lower 48 Offshore														
Gulf	2.28	2.24	2.19	2.15	2.14	2.10	2.06	2.01	2.02	1.98	1.90	1.87	1.86	1.4%
Shallow	0.29	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.23	0.23	0.23	-1.9%
Deep	1.99	1.96	1.91	1.88	1.88	1.84	1.81	1.76	1.77	1.74	1.67	1.64	1.63	2.2%
Pacific	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.06	-2.3%
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Wellhead Prices (2006 dollars per barrel)														
Lower 48 Average	52.42	52.75	52.54	53.04	53.64	54.36	54.73	55.77	56.99	58.04	59.40	60.12	60.59	0.0%
Lower 48 Onshore														
Northeast	57.35	58.20	58.90	59.82	60.69	61.61	62.53	63.59	64.75	65.93	67.16	68.29	69.35	0.5%
Gulf Coast	52.20	52.48	52.37	52.78	53.27	53.96	54.46	55.35	56.26	57.01	58.25	58.69	59.03	-0.2%
Midcontinent	48.73	49.19	49.11	49.79	50.52	51.17	51.55	52.39	53.36	54.04	55.25	55.86	56.26	-0.4%
Southwest	48.68	49.14	49.06	49.75	50.48	51.14	51.52	52.41	53.36	54.01	55.22	55.83	56.23	-0.4%
Rocky Mountain	50.67	51.06	50.96	51.56	52.20	52.77	53.06	53.82	54.74	55.40	56.60	57.21	57.60	0.0%
West Coast	55.98	56.14	55.25	55.48	56.09	57.29	57.47	59.82	62.82	66.00	68.23	70.17	71.15	0.9%
Lower 48 Offshore														
Gulf	54.28	54.58	54.47	54.89	55.40	56.11	56.64	57.57	58.51	59.29	60.58	61.03	61.39	0.0%
Pacific	52.07	52.21	51.39	51.60	52.16	53.28	53.44	55.63	58.42	61.38	63.46	65.26	66.17	0.8%
Atlantic	57.35	58.20	58.90	59.82	60.69	61.61	62.53	63.59	64.75	65.93	67.16	68.29	69.35	--

Table 103. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

1/ Includes lease condensate.

-- = Not applicable.

Note: Oil and Gas Supply Model regions are defined in Appendix F of the Annual Energy Outlook. Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2008 National Energy Modeling System.

Sources: 2005 and 2006: Energy Information Administration (EIA), Petroleum Supply Annual 2006, DOE/EIA-0340(2006)/1 (Washington, DC, September 2007); EIA, Petroleum Marketing Annual 2006, DOE/EIA-0487(2006) (Washington, DC, August 2007); and EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 104. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Dry Production (trillion cubic feet) 1/													
Lower 48 Total	17.61	18.09	18.56	18.77	18.87	18.87	18.87	19.03	19.03	19.02	19.14	19.26	19.24
Lower 48 Onshore													
Northeast	0.96	1.20	1.17	1.23	1.27	1.30	1.34	1.37	1.39	1.41	1.43	1.46	1.47
Gulf Coast	4.69	4.96	4.88	4.73	4.59	4.42	4.20	4.03	3.87	3.69	3.54	3.43	3.32
Midcontinent	2.47	2.60	2.68	2.69	2.67	2.60	2.54	2.50	2.46	2.41	2.38	2.37	2.36
Southwest	1.73	1.82	1.91	1.93	1.94	1.93	1.92	1.93	1.93	1.93	1.92	1.93	1.92
Rocky Mountain	4.13	4.21	4.50	4.65	4.71	4.77	4.85	5.01	5.09	5.19	5.31	5.41	5.45
West Coast	0.26	0.27	0.26	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23
Lower 48 Offshore													
Gulf	3.33	3.01	3.12	3.25	3.41	3.59	3.76	3.92	4.04	4.13	4.30	4.41	4.47
Shallow	1.83	1.64	1.65	1.59	1.64	1.62	1.58	1.52	1.50	1.49	1.50	1.50	1.49
Deep	1.50	1.37	1.47	1.66	1.78	1.97	2.17	2.40	2.54	2.64	2.80	2.91	2.98
Pacific	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prices													
(2006 dollars per million Btu)													
Henry Hub	8.93	6.73	6.78	7.23	7.35	6.90	6.56	6.37	6.16	5.99	5.87	5.82	5.89
Lower 48 Average Wellhead	7.62	6.24	6.03	6.39	6.56	6.16	5.85	5.67	5.48	5.32	5.21	5.17	5.24
(2006 dollars per thousand cubic feet)													
Lower 48 Average Wellhead	7.85	6.42	6.21	6.58	6.75	6.33	6.02	5.84	5.64	5.48	5.36	5.32	5.39
Lower 48 Onshore Wellhead													
Northeast	7.29	5.90	7.23	7.17	7.33	6.87	6.65	6.44	6.21	6.02	5.90	5.86	5.94
Gulf Coast	8.18	6.72	6.36	6.79	7.03	6.56	6.25	6.07	5.89	5.70	5.56	5.51	5.59
Midcontinent	7.39	6.08	6.13	6.64	6.97	6.51	6.17	5.99	5.80	5.61	5.47	5.42	5.49
Southwest	7.58	6.24	5.92	6.40	6.72	6.31	5.97	5.80	5.61	5.45	5.34	5.30	5.37
Rocky Mountain	7.28	5.98	5.96	6.33	6.38	6.01	5.68	5.53	5.31	5.22	5.17	5.13	5.18
West Coast	7.68	6.31	6.90	7.14	7.52	7.20	6.86	6.70	6.43	6.36	6.33	6.28	6.26
Lower 48 Offshore Wellhead													
Gulf	8.72	7.16	6.10	6.35	6.46	6.11	5.82	5.64	5.47	5.30	5.16	5.13	5.22
Pacific	7.68	6.31	7.57	12.66	9.04	7.94	7.12	6.92	6.58	6.45	6.36	6.25	6.21
Atlantic	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 104. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Dry Production (trillion cubic feet) 1/														
Lower 48 Total	19.15	19.02	18.47	17.96	17.98	17.79	17.72	17.60	17.69	17.66	17.58	17.47	17.42	-0.2%
Lower 48 Onshore														
Northeast	1.49	1.48	1.48	1.46	1.46	1.45	1.44	1.44	1.44	1.44	1.45	1.44	1.44	0.8%
Gulf Coast	3.22	3.13	3.00	2.87	2.81	2.72	2.67	2.62	2.59	2.55	2.53	2.52	2.49	-2.8%
Midcontinent	2.35	2.35	2.31	2.28	2.30	2.30	2.33	2.36	2.40	2.45	2.51	2.56	2.60	0.0%
Southwest	1.90	1.88	1.83	1.78	1.76	1.73	1.71	1.68	1.65	1.62	1.60	1.57	1.54	-0.7%
Rocky Mountain	5.49	5.53	5.31	5.14	5.26	5.32	5.39	5.43	5.49	5.54	5.62	5.64	5.66	1.2%
West Coast	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	-0.7%
Lower 48 Offshore														
Gulf	4.44	4.41	4.29	4.19	4.16	4.02	3.94	3.84	3.87	3.81	3.63	3.49	3.45	0.6%
Shallow	1.47	1.41	1.36	1.32	1.29	1.26	1.25	1.20	1.16	1.13	1.10	1.07	1.04	-1.9%
Deep	2.97	2.99	2.93	2.87	2.87	2.76	2.69	2.64	2.71	2.67	2.53	2.43	2.41	2.4%
Pacific	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-3.4%
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Prices														
(2006 dollars per million Btu)														
Henry Hub	5.97	6.05	5.95	5.82	5.95	6.08	6.25	6.39	6.56	6.61	6.86	7.06	7.22	0.3%
Lower 48 Average Wellhead	5.31	5.38	5.29	5.17	5.29	5.41	5.56	5.69	5.84	5.89	6.12	6.30	6.45	0.1%
(2006 dollars per thousand cubic feet)														
Lower 48 Average Wellhead	5.46	5.54	5.44	5.32	5.44	5.57	5.72	5.86	6.01	6.06	6.30	6.48	6.63	0.1%
Lower 48 Onshore Wellhead														
Northeast	6.04	6.11	6.15	6.11	6.19	6.26	6.39	6.50	6.63	6.65	6.85	7.00	7.12	0.8%
Gulf Coast	5.64	5.72	5.67	5.62	5.74	5.80	5.94	6.04	6.17	6.18	6.38	6.50	6.61	-0.1%
Midcontinent	5.53	5.59	5.49	5.40	5.54	5.61	5.75	5.85	5.98	5.99	6.18	6.32	6.44	0.2%
Southwest	5.43	5.53	5.46	5.37	5.50	5.58	5.74	5.87	6.03	6.07	6.30	6.50	6.63	0.3%
Rocky Mountain	5.22	5.29	5.00	4.74	4.89	5.08	5.29	5.47	5.70	5.80	6.02	6.26	6.46	0.3%
West Coast	6.16	6.25	5.61	5.16	5.43	5.65	5.88	6.07	6.31	6.42	6.67	7.28	7.49	0.7%
Lower 48 Offshore Wellhead														
Gulf	5.38	5.47	5.54	5.49	5.61	5.76	5.90	6.02	6.11	6.13	6.52	6.66	6.83	-0.2%
Pacific	6.04	6.09	5.52	4.93	5.11	5.41	5.63	5.83	6.08	6.22	6.42	6.68	6.91	0.4%
Atlantic	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 104. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

1/ Marketed production (wet) minus extraction losses.

-- = Not applicable.

Note: Oil and Gas Supply Model regions are defined in Appendix F of the Annual Energy Outlook. Totals may not equal sum of components due to independent rounding.

Sources: 2005: Minerals Management Service, and Energy Information Administration (EIA), Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006); EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216(2005) (Washington, DC, November 2006); and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2006: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007) and EIA, OIAF. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 105. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Lower 48 Reserves													
Crude Oil (billion barrels) 1/	18.85	19.02	18.10	18.32	19.14	19.89	20.00	20.15	20.47	20.69	20.93	21.00	21.05
Onshore	13.80	13.79	13.83	14.00	14.09	14.10	14.06	14.01	14.11	14.28	14.44	14.57	14.67
Offshore	5.05	5.24	4.27	4.31	5.06	5.80	5.94	6.14	6.36	6.41	6.49	6.42	6.38
Dry Natural Gas (trillion cubic feet)	196.2	203.0	205.4	209.8	216.5	220.6	223.1	225.5	226.5	226.7	227.0	225.8	225.1
Onshore	175.6	181.9	184.3	188.2	193.1	195.7	197.3	198.2	198.2	197.6	196.6	195.3	194.3
Associated-Dissolved 2/	14.7	14.5	14.4	14.3	14.2	14.1	14.0	13.8	13.8	13.9	14.0	14.1	14.2
Non-Associated	160.8	167.4	170.0	173.9	178.9	181.5	183.3	184.3	184.3	183.7	182.5	181.2	180.1
Conventional	55.9	55.7	55.1	55.1	55.0	54.1	52.8	51.5	50.0	48.5	47.0	45.7	44.7
Unconventional	104.9	111.8	114.9	118.9	123.9	127.4	130.5	132.9	134.3	135.2	135.5	135.5	135.5
Offshore	20.6	21.1	21.0	21.5	23.4	25.0	25.9	27.3	28.3	29.1	30.4	30.5	30.8
Associated-Dissolved 2/	5.9	5.9	5.9	5.9	6.0	6.2	6.2	6.2	6.2	6.3	6.3	6.3	6.3
Non-Associated	14.7	15.2	15.1	15.6	17.4	18.8	19.7	21.1	22.1	22.9	24.1	24.2	24.5
Lower 48 Reserve Additions													
Crude Oil (billion barrels) 1/	2.16	1.76	0.68	1.83	2.62	2.67	2.04	2.10	2.32	2.23	2.28	2.11	2.11
Onshore	1.86	1.06	1.11	1.23	1.20	1.14	1.09	1.08	1.24	1.32	1.33	1.31	1.29
Offshore	0.30	0.71	-0.43	0.60	1.43	1.52	0.95	1.02	1.08	0.91	0.94	0.80	0.82
Dry Natural Gas (trillion cubic feet)	29.7	24.9	20.9	23.1	25.6	23.0	21.4	21.4	20.0	19.3	19.4	18.1	18.5
Onshore	27.9	21.4	17.8	19.4	20.3	17.8	16.7	16.0	15.0	14.3	13.8	13.5	13.8
Associated-Dissolved 2/	2.4	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.5	1.4
Non-Associated	25.5	20.2	16.5	18.0	19.0	16.5	15.4	14.7	13.6	12.8	12.3	12.1	12.3
Conventional	8.5	4.9	4.5	5.1	4.9	3.9	3.3	3.1	2.8	2.6	2.5	2.6	2.7
Unconventional	17.0	15.3	12.0	13.0	14.0	12.6	12.1	11.6	10.8	10.2	9.8	9.5	9.6
Offshore	1.8	3.5	3.1	3.8	5.3	5.2	4.7	5.4	5.0	5.0	5.6	4.5	4.7
Associated-Dissolved 2/	0.2	0.6	0.6	0.6	0.7	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
Non-Associated	1.6	2.9	2.5	3.2	4.6	4.3	3.8	4.5	4.1	4.0	4.6	3.5	3.7

Table 105. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Lower 48 Reserves														
Crude Oil (billion barrels) 1/	21.10	21.01	20.78	20.58	20.54	20.57	20.70	20.72	20.81	20.69	20.37	20.11	19.89	0.2%
Onshore	14.70	14.70	14.63	14.54	14.51	14.65	14.88	15.05	15.11	15.09	14.98	14.82	14.64	0.2%
Offshore	6.39	6.31	6.14	6.04	6.03	5.91	5.82	5.67	5.70	5.60	5.38	5.29	5.25	0.0%
Dry Natural Gas (trillion cubic feet)	223.3	221.9	219.3	216.8	214.4	211.3	209.2	207.2	206.7	205.2	203.0	201.7	200.4	-0.1%
Onshore	193.1	191.8	189.9	187.5	185.5	183.8	182.2	180.9	180.0	179.2	178.8	178.0	177.0	-0.1%
Associated-Dissolved 2/	14.2	14.2	14.1	14.0	14.1	14.3	14.6	15.0	15.0	14.9	14.8	14.6	14.3	-0.1%
Non-Associated	178.9	177.6	175.8	173.5	171.4	169.5	167.6	165.9	165.0	164.3	164.0	163.4	162.7	-0.1%
Conventional	43.7	42.9	41.8	40.7	39.9	39.3	38.8	38.5	38.4	38.2	38.2	38.3	38.4	-1.5%
Unconventional	135.2	134.8	133.9	132.7	131.5	130.2	128.8	127.4	126.7	126.1	125.7	125.1	124.3	0.4%
Offshore	30.2	30.1	29.4	29.3	28.9	27.5	26.9	26.3	26.7	26.0	24.2	23.7	23.4	0.4%
Associated-Dissolved 2/	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1	6.1	6.1	0.1%
Non-Associated	23.9	23.8	23.2	23.1	22.7	21.4	20.8	20.1	20.5	19.9	18.2	17.6	17.3	0.6%
Lower 48 Reserve Additions														
Crude Oil (billion barrels) 1/	2.10	1.95	1.79	1.80	1.95	2.03	2.15	2.03	2.11	1.89	1.66	1.70	1.71	-0.1%
Onshore	1.23	1.20	1.13	1.10	1.15	1.35	1.46	1.43	1.32	1.24	1.16	1.08	1.05	0.0%
Offshore	0.87	0.76	0.66	0.71	0.79	0.68	0.69	0.60	0.79	0.65	0.50	0.62	0.66	-0.3%
Dry Natural Gas (trillion cubic feet)	17.4	17.6	15.9	15.4	15.6	14.8	15.6	15.6	17.2	16.2	15.4	16.1	16.2	-1.8%
Onshore	13.5	13.3	12.2	11.3	11.8	12.0	12.2	12.4	12.9	13.0	13.5	13.1	13.0	-2.1%
Associated-Dissolved 2/	1.4	1.3	1.3	1.2	1.3	1.5	1.6	1.7	1.3	1.2	1.1	1.0	0.9	-1.1%
Non-Associated	12.1	12.0	11.0	10.1	10.5	10.5	10.6	10.7	11.6	11.8	12.4	12.2	12.1	-2.1%
Conventional	2.7	2.8	2.5	2.2	2.5	2.6	2.7	2.9	3.0	3.0	3.2	3.3	3.3	-1.6%
Unconventional	9.4	9.2	8.5	7.9	8.0	8.0	7.9	7.9	8.6	8.8	9.1	8.9	8.8	-2.3%
Offshore	3.9	4.3	3.6	4.1	3.8	2.7	3.3	3.2	4.3	3.2	1.9	2.9	3.2	-0.4%
Associated-Dissolved 2/	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	1.3%
Non-Associated	2.9	3.3	2.7	3.1	2.9	1.8	2.5	2.3	3.4	2.3	1.1	2.2	2.4	-0.8%

Table 105. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

1/ Includes lease condensate.

2/ Gas which occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved).

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2005: Energy Information Administration (EIA), U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, EIA/DOE-0216(2005) (Washington, DC, November 2006) and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2006: EIA, OIAF. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 106. Natural Gas Imports and Exports

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Volumes (trillion cubic feet)													
Total Net Imports	3.61	3.46	3.80	3.85	3.95	3.85	4.01	4.02	3.83	3.92	4.03	4.08	4.04
Total Imports	4.34	4.19	4.55	4.55	4.68	4.68	4.75	4.78	4.65	4.81	5.00	5.06	5.03
Pipeline Imports from Canada	3.70	3.59	3.67	3.50	3.44	3.18	3.04	2.91	2.78	2.70	2.62	2.52	2.40
Pipeline Imports from Mexico	0.01	0.01	0.09	0.11	0.21	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Pipeline Imports from Bahamas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Natural Gas Imports	0.63	0.58	0.78	0.94	1.03	1.24	1.45	1.61	1.61	1.85	2.12	2.28	2.37
Total Exports	0.73	0.72	0.74	0.70	0.73	0.84	0.74	0.75	0.82	0.89	0.97	0.98	0.99
Pipeline Exports to Canada	0.36	0.34	0.41	0.42	0.42	0.43	0.45	0.46	0.46	0.47	0.47	0.48	0.48
Pipeline Exports to Mexico	0.31	0.32	0.29	0.25	0.27	0.37	0.28	0.29	0.36	0.42	0.49	0.50	0.50
Liquefied Natural Gas Exports	0.07	0.06	0.04	0.04	0.04	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Border Prices													
(2006 dollars per thousand cubic feet)													
Average Import Price	8.39	6.89	6.83	7.31	7.35	6.99	6.68	6.45	6.17	5.94	5.81	5.78	5.86
Pipeline Import Prices													
From Canada	8.37	6.84	6.91	7.41	7.37	7.05	6.75	6.52	6.19	5.95	5.84	5.83	5.94
From Mexico	8.73	5.65	5.88	6.50	7.14	6.85	6.50	6.34	6.10	5.99	5.92	5.87	5.89
From Bahamas	--	--	--	--	--	--	--	--	--	--	--	--	--
LNG Price (including regasification)	8.52	7.20	6.47	6.94	7.28	6.86	6.54	6.33	6.12	5.92	5.77	5.72	5.78

Table 106. Natural Gas Imports and Exports

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Volumes (trillion cubic feet)														
Total Net Imports	3.97	3.90	3.55	3.27	3.21	3.28	3.27	3.28	3.19	3.20	3.23	3.18	3.18	-0.4%
Total Imports	4.97	4.91	4.57	4.34	4.32	4.43	4.47	4.52	4.46	4.49	4.54	4.51	4.52	0.3%
Pipeline Imports from Canada	2.30	2.20	1.94	1.81	1.75	1.72	1.72	1.67	1.63	1.57	1.51	1.45	1.42	-3.8%
Pipeline Imports from Mexico	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	13.3%
Pipeline Imports from Bahamas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Natural Gas Imports	2.41	2.45	2.37	2.27	2.31	2.46	2.49	2.60	2.57	2.66	2.77	2.80	2.84	6.8%
Total Exports	1.00	1.01	1.02	1.06	1.11	1.15	1.20	1.24	1.27	1.29	1.31	1.33	1.34	2.6%
Pipeline Exports to Canada	0.49	0.49	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.55	2.0%
Pipeline Exports to Mexico	0.51	0.51	0.52	0.56	0.60	0.64	0.68	0.72	0.74	0.76	0.77	0.78	0.80	3.8%
Liquefied Natural Gas Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Border Prices														
(2006 dollars per thousand cubic feet)														
Average Import Price	5.95	6.02	5.88	5.78	5.93	6.02	6.14	6.27	6.41	6.45	6.69	6.84	6.98	0.1%
Pipeline Import Prices														
From Canada	6.04	6.10	5.83	5.69	5.85	5.95	6.05	6.20	6.40	6.45	6.66	6.83	7.00	0.1%
From Mexico	5.84	5.93	5.49	5.18	5.40	5.56	5.76	5.92	6.12	6.19	6.42	6.87	7.05	0.9%
From Bahamas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LNG Price (including regasification)	5.86	5.94	5.92	5.85	5.98	6.07	6.21	6.31	6.41	6.44	6.70	6.84	6.97	-0.1%

Table 106. Natural Gas Imports and Exports

LNG = Liquefied natural gas.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2008 National Energy Modeling System.

Sources: 2005 and 2006: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007) and EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 107. Natural Gas Consumption by End-Use Sector and Census Division (trillion cubic feet)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
New England	0.19	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20
Middle Atlantic	0.88	0.76	0.84	0.87	0.87	0.84	0.84	0.85	0.85	0.86	0.86	0.87	0.87
East North Central	1.40	1.23	1.35	1.37	1.39	1.35	1.36	1.37	1.38	1.38	1.39	1.40	1.40
West North Central	0.43	0.39	0.42	0.44	0.44	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44
South Atlantic	0.46	0.40	0.43	0.45	0.46	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.49
East South Central	0.19	0.17	0.17	0.18	0.20	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21
West South Central	0.32	0.28	0.33	0.31	0.34	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36
Mountain	0.34	0.34	0.36	0.38	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39
Pacific	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.69	0.69	0.70	0.71	0.72	0.73
Total	4.83	4.37	4.73	4.83	4.89	4.81	4.85	4.91	4.94	4.97	5.01	5.06	5.07
Commercial													
New England	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
Middle Atlantic	0.59	0.54	0.60	0.59	0.58	0.57	0.58	0.59	0.60	0.60	0.61	0.62	0.62
East North Central	0.71	0.65	0.69	0.71	0.68	0.68	0.69	0.70	0.71	0.72	0.73	0.73	0.74
West North Central	0.28	0.26	0.28	0.29	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30
South Atlantic	0.37	0.34	0.36	0.37	0.36	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.41
East South Central	0.14	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15
West South Central	0.26	0.24	0.26	0.26	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29
Mountain	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.25	0.25
Pacific	0.33	0.34	0.35	0.37	0.34	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.38
Total	3.00	2.83	3.02	3.05	2.95	2.96	3.01	3.06	3.11	3.15	3.20	3.24	3.27
Industrial 1/													
New England	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Middle Atlantic	0.33	0.33	0.33	0.34	0.40	0.40	0.41	0.39	0.39	0.39	0.38	0.37	0.37
East North Central	1.13	1.10	1.13	1.19	1.20	1.16	1.17	1.17	1.14	1.13	1.14	1.13	1.13
West North Central	0.41	0.44	0.46	0.48	0.53	0.57	0.59	0.59	0.58	0.58	0.60	0.61	0.62
South Atlantic	0.51	0.53	0.52	0.51	0.49	0.49	0.50	0.50	0.50	0.50	0.49	0.49	0.49
East South Central	0.44	0.45	0.46	0.46	0.46	0.45	0.46	0.46	0.45	0.45	0.45	0.45	0.44
West South Central	2.45	2.35	2.43	2.43	2.59	2.61	2.64	2.64	2.65	2.64	2.63	2.62	2.61
Mountain	0.29	0.28	0.30	0.29	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.25	0.25
Pacific	0.95	0.91	0.88	0.85	0.91	0.93	0.94	0.96	0.97	0.98	0.97	0.97	0.97
Total	6.60	6.49	6.60	6.64	6.90	6.95	7.03	7.04	7.03	7.02	7.00	6.97	6.95
Electric Power 2/													
New England	0.36	0.37	0.50	0.48	0.47	0.45	0.45	0.46	0.45	0.46	0.45	0.45	0.45
Middle Atlantic	0.51	0.63	0.62	0.67	0.67	0.61	0.63	0.63	0.58	0.57	0.61	0.63	0.62
East North Central	0.31	0.25	0.40	0.50	0.57	0.52	0.50	0.49	0.45	0.45	0.45	0.45	0.43
West North Central	0.10	0.11	0.04	0.05	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
South Atlantic	0.88	1.01	0.79	0.83	0.79	0.83	0.84	0.88	0.86	0.85	0.84	0.83	0.80
East South Central	0.26	0.30	0.55	0.54	0.45	0.49	0.47	0.48	0.45	0.45	0.46	0.47	0.46
West South Central	2.04	2.05	2.12	2.09	2.11	2.13	2.12	2.07	2.00	1.99	2.05	2.09	2.07
Mountain	0.52	0.56	0.69	0.77	0.72	0.72	0.68	0.71	0.69	0.69	0.69	0.66	0.62
Pacific	0.88	0.96	1.05	0.90	0.92	0.88	0.87	0.88	0.85	0.88	0.94	1.02	1.05
Total	5.87	6.24	6.78	6.83	6.77	6.70	6.64	6.67	6.42	6.41	6.56	6.66	6.58

Table 107. Natural Gas Consumption by End-Use Sector and Census Division (trillion cubic feet)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation 3/													
New England	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Middle Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
East North Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
West North Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
South Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
East South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
West South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Mountain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Pacific	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06
All Sectors 4/													
New England	0.76	0.74	0.90	0.87	0.86	0.83	0.84	0.85	0.85	0.86	0.86	0.85	0.86
Middle Atlantic	2.31	2.26	2.40	2.47	2.51	2.43	2.47	2.47	2.43	2.42	2.48	2.49	2.49
East North Central	3.55	3.24	3.58	3.76	3.84	3.71	3.72	3.74	3.69	3.69	3.71	3.72	3.70
West North Central	1.22	1.20	1.20	1.26	1.31	1.35	1.38	1.39	1.38	1.40	1.42	1.44	1.45
South Atlantic	2.23	2.29	2.11	2.17	2.10	2.14	2.17	2.22	2.22	2.22	2.21	2.21	2.19
East South Central	1.03	1.05	1.32	1.32	1.24	1.27	1.26	1.28	1.25	1.25	1.26	1.27	1.27
West South Central	5.07	4.93	5.15	5.10	5.29	5.33	5.36	5.33	5.28	5.27	5.32	5.36	5.34
Mountain	1.37	1.39	1.57	1.67	1.55	1.55	1.53	1.57	1.56	1.57	1.57	1.55	1.52
Pacific	2.78	2.85	2.92	2.77	2.83	2.82	2.84	2.88	2.88	2.93	3.00	3.09	3.14
Total	20.32	19.95	21.14	21.38	21.54	21.45	21.57	21.72	21.54	21.61	21.83	21.99	21.94

Table 107. Natural Gas Consumption by End-Use Sector and Census Division (trillion cubic feet)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
New England	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.7%
Middle Atlantic	0.87	0.88	0.88	0.88	0.88	0.88	0.89	0.88	0.89	0.89	0.89	0.88	0.88	0.6%
East North Central	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39	1.39	1.39	1.38	1.37	0.4%
West North Central	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.4%
South Atlantic	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.50	0.51	0.51	0.51	0.50	0.50	1.0%
East South Central	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.21	0.21	1.0%
West South Central	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	1.1%
Mountain	0.39	0.39	0.40	0.40	0.40	0.40	0.41	0.40	0.41	0.41	0.41	0.41	0.40	0.8%
Pacific	0.74	0.74	0.75	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.79	1.0%
Total	5.09	5.11	5.15	5.16	5.18	5.19	5.20	5.19	5.19	5.19	5.20	5.18	5.17	0.7%
Commercial														
New England	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.1%
Middle Atlantic	0.63	0.63	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	1.0%
East North Central	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.78	0.78	0.79	0.79	0.8%
West North Central	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	1.0%
South Atlantic	0.42	0.42	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.47	0.48	0.48	0.49	1.5%
East South Central	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	1.1%
West South Central	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	1.4%
Mountain	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	1.2%
Pacific	0.39	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.44	1.0%
Total	3.30	3.33	3.37	3.41	3.44	3.47	3.50	3.53	3.56	3.59	3.61	3.64	3.67	1.1%
Industrial 1/														
New England	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	-0.5%
Middle Atlantic	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.0%
East North Central	1.13	1.13	1.13	1.14	1.14	1.13	1.12	1.11	1.11	1.10	1.09	1.08	1.07	-0.1%
West North Central	0.63	0.62	0.62	0.63	0.63	0.62	0.62	0.61	0.61	0.61	0.61	0.60	0.60	1.3%
South Atlantic	0.48	0.48	0.48	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	-0.4%
East South Central	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	-0.1%
West South Central	2.60	2.59	2.60	2.61	2.61	2.60	2.60	2.60	2.60	2.60	2.59	2.59	2.58	0.4%
Mountain	0.25	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	-0.4%
Pacific	0.97	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.04	1.04	1.05	1.04	0.6%
Total	6.94	6.92	6.93	6.98	6.98	6.98	6.97	6.96	6.96	6.95	6.93	6.90	6.87	0.2%
Electric Power 2/														
New England	0.45	0.45	0.47	0.48	0.49	0.48	0.48	0.48	0.48	0.47	0.48	0.47	0.46	0.8%
Middle Atlantic	0.59	0.57	0.56	0.56	0.55	0.55	0.55	0.54	0.53	0.51	0.49	0.48	0.48	-1.1%
East North Central	0.43	0.39	0.39	0.40	0.41	0.40	0.41	0.41	0.42	0.43	0.44	0.44	0.48	2.7%
West North Central	0.08	0.07	0.08	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	-1.8%
South Atlantic	0.77	0.73	0.69	0.67	0.65	0.64	0.62	0.62	0.62	0.63	0.64	0.63	0.62	-2.0%
East South Central	0.45	0.43	0.38	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.32	0.32	0.2%
West South Central	1.94	1.89	1.80	1.73	1.70	1.67	1.62	1.61	1.60	1.59	1.55	1.51	1.48	-1.4%
Mountain	0.58	0.55	0.55	0.57	0.52	0.45	0.41	0.35	0.30	0.28	0.24	0.24	0.23	-3.7%
Pacific	1.06	1.07	0.99	0.98	0.97	0.96	0.94	0.92	0.92	0.92	0.90	0.88	0.87	-0.4%
Total	6.37	6.15	5.92	5.77	5.67	5.52	5.41	5.30	5.26	5.22	5.17	5.04	4.99	-0.9%

Table 107. Natural Gas Consumption by End-Use Sector and Census Division (trillion cubic feet)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation 3/														
New England	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.9%
Middle Atlantic	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
East North Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.3%
West North Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.7%
South Atlantic	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.7%
East South Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.9%
West South Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.6%
Mountain	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.5%
Pacific	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.8%
Total	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	6.2%
All Sectors 4/														
New England	0.87	0.87	0.88	0.89	0.90	0.91	0.91	0.90	0.90	0.90	0.91	0.90	0.88	0.7%
Middle Atlantic	2.46	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.44	2.42	2.41	2.40	2.39	0.2%
East North Central	3.71	3.67	3.68	3.70	3.72	3.71	3.71	3.70	3.71	3.71	3.71	3.70	3.72	0.6%
West North Central	1.46	1.45	1.46	1.48	1.47	1.46	1.46	1.45	1.45	1.45	1.46	1.44	1.44	0.8%
South Atlantic	2.17	2.14	2.11	2.10	2.09	2.08	2.07	2.07	2.08	2.10	2.12	2.10	2.10	-0.4%
East South Central	1.26	1.24	1.20	1.12	1.13	1.13	1.14	1.13	1.14	1.14	1.16	1.15	1.14	0.4%
West South Central	5.20	5.15	5.07	5.02	4.99	4.96	4.91	4.91	4.90	4.90	4.86	4.81	4.77	-0.1%
Mountain	1.49	1.45	1.45	1.48	1.44	1.38	1.34	1.28	1.25	1.23	1.19	1.19	1.18	-0.7%
Pacific	3.16	3.18	3.13	3.14	3.15	3.17	3.17	3.16	3.18	3.18	3.17	3.16	3.15	0.4%
Total	21.78	21.59	21.44	21.39	21.34	21.24	21.16	21.05	21.05	21.03	20.99	20.84	20.79	0.2%

Table 107. Natural Gas Consumption by End-Use Sector and Census Division (trillion cubic feet)

1/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy. Excludes lease and plant fuel.

2/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

3/ Compressed natural gas used as a vehicle fuel.

4/ Excludes lease and plant fuel and natural gas used for pipeline compressor station fuel.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2008 National Energy Modeling System.

Sources: 2005 and 2006 electric power fuel consumption: Energy Information Administration (EIA), Electric Power Annual 2006, DOE/EIA-0348(2006) (Washington, DC, November 2007). Other 2005 and 2006 values based on: EIA, Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 108. Natural Gas Delivered Prices by End-Use Sector and Census Division (2006 dollars per thousand cubic feet)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Residential													
New England	15.98	17.38	15.61	16.10	16.28	15.68	15.44	15.19	14.98	14.73	14.56	14.52	14.61
Middle Atlantic	14.77	16.24	14.35	14.50	14.62	14.15	13.88	13.65	13.41	13.21	13.10	13.08	13.20
East North Central	12.12	12.31	11.86	11.99	11.94	11.46	11.14	10.92	10.69	10.51	10.38	10.34	10.44
West North Central	12.22	12.59	12.09	12.24	12.22	11.61	11.32	11.11	10.89	10.72	10.61	10.59	10.70
South Atlantic	16.10	17.37	14.74	14.67	14.78	14.31	14.06	13.88	13.70	13.54	13.42	13.41	13.55
East South Central	14.31	15.40	13.45	13.49	13.27	12.73	12.45	12.27	12.09	11.91	11.77	11.74	11.85
West South Central	12.95	13.29	12.15	12.47	12.35	11.74	11.42	11.24	11.10	10.93	10.79	10.77	10.89
Mountain	11.24	12.04	11.73	11.78	11.78	11.26	10.97	10.86	10.70	10.65	10.63	10.63	10.76
Pacific	12.13	12.04	12.55	12.72	12.60	12.09	11.75	11.58	11.33	11.21	11.16	11.12	11.19
Average	13.23	13.80	12.89	13.04	13.03	12.52	12.22	12.02	11.81	11.64	11.54	11.51	11.62
Commercial													
New England	14.11	14.73	13.06	13.72	13.88	13.22	13.00	12.79	12.58	12.34	12.19	12.17	12.27
Middle Atlantic	13.38	12.85	11.60	12.07	12.23	11.64	11.38	11.18	10.93	10.74	10.65	10.64	10.75
East North Central	11.09	11.24	10.73	10.99	10.98	10.44	10.14	9.93	9.70	9.53	9.41	9.39	9.49
West North Central	10.97	11.02	10.50	10.83	10.82	10.18	9.88	9.68	9.45	9.28	9.18	9.17	9.27
South Atlantic	13.29	13.61	11.78	12.07	12.32	11.75	11.49	11.34	11.11	10.93	10.80	10.77	10.88
East South Central	12.87	13.42	11.58	11.85	12.00	11.42	11.15	10.99	10.81	10.65	10.53	10.52	10.63
West South Central	10.95	10.52	10.05	10.41	10.50	9.87	9.55	9.38	9.22	9.05	8.92	8.90	9.01
Mountain	9.79	10.64	10.11	10.35	10.22	9.65	9.34	9.22	9.03	8.96	8.93	8.92	9.01
Pacific	10.74	10.48	11.10	11.44	11.43	10.93	10.63	10.50	10.28	10.19	10.17	10.17	10.27
Average	11.86	11.85	11.08	11.41	11.49	10.91	10.62	10.44	10.22	10.06	9.97	9.95	10.06
Industrial 1/													
New England	11.27	10.87	9.40	9.99	10.31	9.79	9.53	9.26	9.01	8.72	8.52	8.45	8.48
Middle Atlantic	10.12	9.76	8.47	8.78	9.00	8.56	8.24	8.00	7.70	7.48	7.34	7.29	7.36
East North Central	8.91	8.28	7.82	8.13	8.28	7.96	7.63	7.40	7.15	6.95	6.81	6.76	6.82
West North Central	8.40	7.67	7.53	8.16	8.39	7.99	7.69	7.48	7.22	7.03	6.91	6.87	6.93
South Atlantic	9.64	8.81	7.58	8.19	8.67	8.34	8.07	7.89	7.64	7.43	7.27	7.22	7.28
East South Central	9.13	8.37	7.48	8.00	8.38	8.03	7.74	7.55	7.33	7.14	6.99	6.94	7.01
West South Central	8.10	7.10	6.53	6.91	7.11	6.67	6.32	6.12	5.92	5.73	5.59	5.54	5.62
Mountain	7.96	8.64	7.47	7.75	7.76	7.35	6.99	6.83	6.60	6.51	6.45	6.41	6.47
Pacific	8.35	7.59	7.29	7.56	7.52	7.11	6.74	6.56	6.26	6.12	6.05	6.00	6.02
Average	8.62	7.89	7.25	7.65	7.83	7.43	7.10	6.89	6.65	6.46	6.33	6.28	6.35
Electric Power 2/													
New England	9.92	7.56	7.48	8.13	8.46	7.88	7.62	7.36	7.10	6.81	6.60	6.52	6.55
Middle Atlantic	9.86	7.78	7.32	7.75	7.98	7.51	7.21	6.96	6.66	6.43	6.31	6.26	6.32
East North Central	7.48	6.91	6.55	6.66	6.73	6.33	5.99	5.76	5.49	5.29	5.16	5.12	5.17
West North Central	8.17	6.67	6.94	7.29	7.37	6.86	6.55	6.32	6.05	5.86	5.75	5.70	5.76
South Atlantic	9.41	8.44	7.40	7.73	8.05	7.65	7.38	7.38	7.05	6.80	6.62	6.55	6.58
East South Central	9.75	7.19	6.91	7.32	7.58	7.17	6.86	6.67	6.43	6.23	6.09	6.05	6.10
West South Central	8.56	6.67	6.92	7.32	7.52	7.05	6.71	6.51	6.31	6.11	5.98	5.93	6.00
Mountain	7.92	6.44	7.14	7.46	7.49	7.04	6.67	6.54	6.28	6.19	6.13	6.07	6.10
Pacific	7.63	6.22	7.19	7.39	7.39	6.95	6.60	6.43	6.14	6.03	5.99	5.96	6.01
Average	8.67	7.07	7.09	7.45	7.61	7.16	6.84	6.67	6.42	6.23	6.10	6.05	6.10

Table 108. Natural Gas Delivered Prices by End-Use Sector and Census Division (2006 dollars per thousand cubic feet)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transportation 3/													
New England	16.03	15.91	14.50	15.10	15.42	14.89	14.61	14.32	14.03	13.71	13.48	13.38	13.38
Middle Atlantic	16.65	17.45	15.66	16.01	16.22	15.74	15.38	15.07	14.72	14.44	14.25	14.15	14.15
East North Central	15.59	15.03	14.41	14.66	14.79	14.39	14.02	13.73	13.42	13.18	12.99	12.89	12.90
West North Central	13.18	12.55	12.10	12.50	12.64	12.14	11.77	11.49	11.18	10.94	10.78	10.69	10.70
South Atlantic	15.42	14.72	13.24	13.66	14.05	13.63	13.30	13.10	12.79	12.54	12.35	12.25	12.28
East South Central	17.90	18.03	16.52	16.90	17.19	16.78	16.44	16.20	15.94	15.70	15.51	15.42	15.44
West South Central	15.72	15.41	14.71	15.09	15.32	14.85	14.47	14.23	14.00	13.76	13.58	13.49	13.52
Mountain	12.06	12.23	12.21	12.57	12.63	12.22	11.82	11.63	11.36	11.23	11.15	11.07	11.08
Pacific	12.37	11.61	11.89	12.22	12.32	11.92	11.53	11.31	10.98	10.83	10.73	10.63	10.64
Average	14.97	14.71	13.86	14.24	14.45	14.01	13.65	13.40	13.11	12.88	12.71	12.61	12.63
All Sectors 4/													
New England	12.30	11.30	10.16	10.82	11.11	10.58	10.35	10.09	9.86	9.58	9.44	9.41	9.46
Middle Atlantic	12.68	12.13	11.02	11.30	11.42	10.95	10.65	10.45	10.25	10.09	9.92	9.90	10.01
East North Central	10.49	10.30	9.76	9.88	9.85	9.46	9.16	8.95	8.76	8.59	8.46	8.43	8.54
West North Central	10.31	9.90	9.82	10.15	10.11	9.53	9.22	9.01	8.79	8.60	8.47	8.43	8.51
South Atlantic	11.50	10.86	9.69	10.02	10.41	9.91	9.66	9.53	9.30	9.12	9.00	8.99	9.11
East South Central	10.75	9.78	8.44	8.86	9.27	8.79	8.54	8.36	8.20	8.03	7.88	7.84	7.94
West South Central	8.74	7.44	7.24	7.60	7.77	7.30	6.96	6.77	6.59	6.40	6.27	6.23	6.32
Mountain	9.05	8.89	8.67	8.88	8.92	8.44	8.14	8.00	7.82	7.74	7.72	7.72	7.85
Pacific	9.25	8.46	8.86	9.24	9.14	8.70	8.37	8.21	7.96	7.83	7.76	7.70	7.74
Average	10.22	9.49	9.01	9.34	9.45	8.97	8.67	8.49	8.29	8.12	8.00	7.97	8.06

Table 108. Natural Gas Delivered Prices by End-Use Sector and Census Division (2006 dollars per thousand cubic feet)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Residential														
New England	14.70	14.76	14.67	14.58	14.73	14.83	14.98	15.13	15.32	15.37	15.64	15.85	16.03	-0.3%
Middle Atlantic	13.33	13.42	13.36	13.30	13.47	13.60	13.76	13.93	14.13	14.19	14.47	14.68	14.86	-0.4%
East North Central	10.55	10.63	10.53	10.43	10.58	10.72	10.88	11.04	11.24	11.33	11.59	11.80	11.98	-0.1%
West North Central	10.81	10.89	10.73	10.62	10.79	10.95	11.13	11.31	11.53	11.66	11.91	12.15	12.35	-0.1%
South Atlantic	13.70	13.83	13.86	13.85	14.04	14.20	14.40	14.59	14.79	14.87	15.19	15.42	15.63	-0.4%
East South Central	11.98	12.09	12.08	12.03	12.20	12.33	12.50	12.65	12.80	12.84	13.14	13.31	13.48	-0.6%
West South Central	11.03	11.14	11.15	11.12	11.29	11.44	11.61	11.78	11.94	11.99	12.30	12.49	12.67	-0.2%
Mountain	10.86	10.97	10.70	10.48	10.67	10.91	11.17	11.42	11.72	11.88	12.15	12.48	12.73	0.2%
Pacific	11.24	11.34	11.24	10.99	11.03	11.20	11.40	11.61	11.86	11.98	12.21	12.48	12.71	0.2%
Average	11.73	11.82	11.74	11.63	11.78	11.93	12.11	12.29	12.50	12.60	12.87	13.10	13.30	-0.2%
Commercial														
New England	12.37	12.44	12.39	12.31	12.47	12.59	12.76	12.92	13.12	13.19	13.48	13.68	13.87	-0.3%
Middle Atlantic	10.88	10.98	10.94	10.88	11.05	11.18	11.36	11.52	11.72	11.79	12.07	12.26	12.45	-0.1%
East North Central	9.60	9.69	9.60	9.51	9.67	9.82	10.00	10.16	10.36	10.46	10.73	10.95	11.14	0.0%
West North Central	9.38	9.46	9.31	9.18	9.36	9.52	9.70	9.87	10.09	10.22	10.47	10.70	10.90	0.0%
South Atlantic	11.00	11.12	11.13	11.10	11.27	11.39	11.58	11.73	11.90	11.95	12.24	12.42	12.59	-0.3%
East South Central	10.77	10.90	10.92	10.88	11.07	11.21	11.40	11.55	11.73	11.78	12.10	12.28	12.46	-0.3%
West South Central	9.13	9.25	9.26	9.22	9.39	9.53	9.70	9.85	10.00	10.04	10.34	10.51	10.68	0.1%
Mountain	9.09	9.19	8.90	8.64	8.82	9.05	9.30	9.52	9.79	9.94	10.20	10.48	10.72	0.0%
Pacific	10.36	10.48	10.42	10.21	10.30	10.50	10.73	10.95	11.23	11.37	11.64	11.92	12.18	0.6%
Average	10.17	10.27	10.20	10.10	10.26	10.42	10.61	10.78	10.99	11.08	11.36	11.58	11.78	0.0%
Industrial 1/														
New England	8.52	8.53	8.42	8.29	8.40	8.44	8.55	8.64	8.78	8.78	9.01	9.14	9.27	-0.7%
Middle Atlantic	7.43	7.48	7.39	7.28	7.41	7.48	7.60	7.71	7.85	7.87	8.10	8.24	8.37	-0.6%
East North Central	6.89	6.94	6.81	6.69	6.82	6.92	7.05	7.18	7.34	7.40	7.63	7.80	7.96	-0.2%
West North Central	6.99	7.04	6.85	6.68	6.83	6.95	7.09	7.23	7.42	7.53	7.74	7.93	8.10	0.2%
South Atlantic	7.36	7.43	7.41	7.34	7.46	7.54	7.67	7.78	7.90	7.91	8.15	8.28	8.41	-0.2%
East South Central	7.09	7.16	7.14	7.07	7.20	7.29	7.42	7.52	7.64	7.65	7.91	8.04	8.17	-0.1%
West South Central	5.70	5.79	5.77	5.71	5.84	5.94	6.07	6.18	6.30	6.31	6.58	6.72	6.85	-0.1%
Mountain	6.51	6.56	6.25	5.98	6.14	6.33	6.54	6.73	6.96	7.07	7.29	7.54	7.74	-0.5%
Pacific	6.05	6.11	6.00	5.70	5.73	5.87	6.05	6.22	6.44	6.53	6.74	6.97	7.17	-0.2%
Average	6.42	6.48	6.40	6.27	6.39	6.50	6.64	6.76	6.91	6.95	7.19	7.36	7.50	-0.2%
Electric Power 2/														
New England	6.58	6.58	6.49	6.36	6.46	6.50	6.61	6.69	6.80	6.83	7.05	7.18	7.29	-0.1%
Middle Atlantic	6.37	6.42	6.33	6.23	6.35	6.42	6.54	6.64	6.76	6.80	7.02	7.16	7.29	-0.3%
East North Central	5.25	5.29	5.17	5.06	5.22	5.32	5.45	5.61	5.77	5.86	6.09	6.26	6.41	-0.3%
West North Central	5.82	5.85	5.66	5.49	5.64	5.75	5.88	6.03	6.20	6.33	6.54	6.73	6.91	0.1%
South Atlantic	6.62	6.68	6.62	6.54	6.67	6.73	6.84	6.95	7.03	7.09	7.31	7.41	7.54	-0.5%
East South Central	6.18	6.24	6.21	6.13	6.26	6.34	6.47	6.58	6.67	6.71	6.97	7.10	7.23	0.0%
West South Central	6.07	6.15	6.13	6.07	6.21	6.30	6.43	6.54	6.63	6.67	6.93	7.06	7.19	0.3%
Mountain	6.12	6.17	5.82	5.49	5.62	5.80	5.99	6.17	6.38	6.52	6.73	6.98	7.20	0.5%
Pacific	6.04	6.09	5.95	5.69	5.74	5.86	5.99	6.12	6.30	6.38	6.56	6.73	6.90	0.4%
Average	6.15	6.21	6.11	5.97	6.09	6.18	6.31	6.44	6.56	6.62	6.85	6.99	7.13	0.0%

Table 108. Natural Gas Delivered Prices by End-Use Sector and Census Division (2006 dollars per thousand cubic feet)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Transportation 3/														
New England	13.39	13.37	13.24	13.09	13.16	13.18	13.25	13.32	13.43	13.41	13.61	13.72	13.82	-0.6%
Middle Atlantic	14.16	14.15	14.00	13.84	13.91	13.93	13.99	14.04	14.13	14.10	14.27	14.37	14.45	-0.8%
East North Central	12.92	12.93	12.78	12.61	12.69	12.74	12.83	12.90	13.02	13.04	13.23	13.36	13.47	-0.5%
West North Central	10.72	10.72	10.49	10.28	10.38	10.45	10.54	10.64	10.78	10.84	11.01	11.17	11.30	-0.4%
South Atlantic	12.32	12.37	12.32	12.22	12.30	12.34	12.44	12.51	12.59	12.57	12.77	12.87	12.96	-0.5%
East South Central	15.48	15.50	15.44	15.33	15.42	15.46	15.55	15.62	15.70	15.66	15.89	15.99	16.08	-0.5%
West South Central	13.56	13.60	13.53	13.43	13.53	13.58	13.67	13.74	13.82	13.79	14.02	14.12	14.22	-0.3%
Mountain	11.07	11.11	10.75	10.40	10.53	10.68	10.85	11.01	11.21	11.29	11.48	11.70	11.88	-0.1%
Pacific	10.63	10.68	10.55	10.22	10.22	10.32	10.45	10.58	10.77	10.83	11.01	11.21	11.38	-0.1%
Average	12.64	12.66	12.52	12.33	12.40	12.46	12.56	12.65	12.77	12.78	12.97	13.10	13.22	-0.4%
All Sectors 4/														
New England	9.51	9.55	9.42	9.29	9.40	9.47	9.61	9.74	9.89	9.95	10.18	10.37	10.58	-0.3%
Middle Atlantic	10.16	10.28	10.23	10.17	10.34	10.46	10.62	10.78	10.97	11.06	11.35	11.56	11.75	-0.1%
East North Central	8.62	8.73	8.63	8.51	8.65	8.79	8.94	9.09	9.27	9.35	9.59	9.79	9.93	-0.2%
West North Central	8.59	8.67	8.49	8.33	8.51	8.66	8.83	9.00	9.21	9.33	9.54	9.78	9.97	0.0%
South Atlantic	9.25	9.39	9.45	9.44	9.61	9.75	9.94	10.08	10.23	10.26	10.52	10.70	10.87	0.0%
East South Central	8.05	8.18	8.24	8.32	8.48	8.58	8.72	8.86	8.97	9.00	9.26	9.42	9.59	-0.1%
West South Central	6.42	6.51	6.50	6.45	6.60	6.71	6.85	6.97	7.09	7.12	7.40	7.55	7.69	0.1%
Mountain	7.95	8.09	7.79	7.50	7.74	8.05	8.36	8.68	9.02	9.20	9.55	9.84	10.09	0.5%
Pacific	7.79	7.87	7.81	7.56	7.63	7.78	7.97	8.16	8.38	8.49	8.72	8.97	9.19	0.3%
Average	8.16	8.27	8.22	8.11	8.26	8.40	8.57	8.73	8.91	8.99	9.25	9.45	9.63	0.1%

Table 108. Natural Gas Delivered Prices by End-Use Sector and Census Division (2006 dollars per thousand cubic feet)

1/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy. Excludes lease and plant fuel.

2/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

3/ Compressed natural gas used as a vehicle fuel, including federal and state fuel taxes and dispensing costs or charges.

4/ Weighted average price. Weights used are the sector consumption values.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 and 2006 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2008 National Energy Modeling System.

Sources: 2005 and 2006 industrial natural gas delivered prices are based on Energy Information Administration (EIA), Manufacturing Energy Consumption Survey 2002. 2005 and 2006 transportation values based on EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006) and assumed fuel taxes and dispensing costs or charges. Other 2005 values: EIA, Natural Gas Annual 2005, DOE/EIA-0131(2005) (Washington, DC, November 2006). Other 2006 values: EIA, Natural Gas Monthly, DOE/EIA-0130(2007/04) (Washington, DC, April 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 109. Primary Natural Gas Flows Entering NGTDM Region from Neighboring Regions (billion cubic feet per year)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Into New England From:													
Middle Atlantic	603	618	689	686	772	753	760	785	806	822	818	825	841
Canada	205	172	193	210	226	206	187	172	155	133	109	86	67
Into Middle Atlantic From:													
East North Central	456	451	468	476	490	480	492	502	504	508	521	531	539
South Atlantic	1520	1450	1598	1668	1708	1668	1701	1723	1711	1716	1753	1780	1800
Canada	856	863	848	805	804	751	737	720	703	696	688	664	641
Into East North Central From:													
West North Central	3644	3399	3588	3677	3761	3667	3645	3620	3552	3520	3482	3441	3386
East South Central	1623	1456	1625	1742	1770	1703	1744	1778	1771	1794	1831	1865	1889
Into West North Central from:													
West South Central	1615	1444	1614	1709	1761	1796	1825	1839	1806	1803	1816	1824	1822
Mountain	1078	1053	1181	1311	1458	1512	1587	1656	1705	1744	1778	1825	1869
Canada (direct)	1488	1473	1484	1446	1413	1313	1249	1185	1128	1096	1054	998	939
Canada (through MT)	681	650	630	593	575	529	499	469	444	429	411	388	364
Into South Atlantic from:													
East North Central	655	652	606	584	582	558	551	537	516	493	469	449	430
East South Central	1822	1794	1826	1858	1929	1936	2008	2049	2050	2050	2060	2082	2103
Into East South Central from:													
West South Central	4816	4784	5047	5122	5130	5112	5201	5321	5292	5304	5349	5404	5424
Into West South Central from:													
Mountain	148	112	111	113	116	114	112	112	113	109	106	105	104
Arizona/New Mexico	535	376	333	309	292	267	243	220	201	176	155	139	125
Into Mountain from:													
Canada	48	16	25	28	30	29	30	31	32	34	34	34	34
Into Pacific from:													
Mountain	86	114	114	108	106	105	107	108	107	105	104	108	111
Canada (into WA)	337	252	264	243	229	213	200	189	178	169	161	156	149
Canada (through ID)	635	665	716	671	658	642	635	633	632	642	656	682	695
Into Florida from:													
East South Central	754	883	699	670	668	685	674	704	707	689	669	655	632

Table 109. Primary Natural Gas Flows Entering NGTDM Region from Neighboring Regions (billion cubic feet per year)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Into Arizona/New Mexico from:													
Mountain	606	643	667	645	633	617	602	613	607	609	619	626	612
Into California from:													
Mountain	476	499	463	446	452	461	475	502	522	554	593	608	615
Pacific	523	485	460	396	363	327	295	276	259	254	250	242	226
Arizona/New Mexico	1038	1113	1137	1083	1078	1075	1086	1113	1130	1170	1217	1274	1305

Table 109. Primary Natural Gas Flows Entering NGTDM Region from Neighboring Regions (billion cubic feet per year)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Into New England From:														
Middle Atlantic	863	876	917	948	962	955	958	946	949	938	937	924	905	1.6%
Canada	52	41	34	28	23	18	15	12	10	8	8	8	7	-12.3%
Into Middle Atlantic From:														
East North Central	546	556	575	594	610	622	637	646	655	654	661	662	659	1.6%
South Atlantic	1812	1821	1831	1822	1815	1799	1786	1766	1757	1740	1726	1707	1691	0.6%
Canada	616	596	606	630	634	631	633	627	618	604	597	588	578	-1.7%
Into East North Central From:														
West North Central	3357	3309	3345	3413	3460	3478	3516	3527	3533	3512	3522	3496	3477	0.1%
East South Central	1920	1919	1913	1887	1870	1843	1822	1805	1807	1821	1818	1821	1853	1.0%
Into West North Central from:														
West South Central	1817	1782	1567	1338	1274	1211	1153	1100	1063	1022	984	950	932	-1.8%
Mountain	1929	1993	1945	1892	2010	2121	2222	2304	2374	2424	2516	2548	2572	3.8%
Canada (direct)	885	826	1065	1343	1323	1289	1281	1252	1219	1185	1151	1110	1081	-1.3%
Canada (through MT)	343	321	407	507	506	500	502	498	492	493	491	486	486	-1.2%
Into South Atlantic from:														
East North Central	414	398	394	390	382	369	360	347	336	318	306	291	275	-3.5%
East South Central	2128	2141	2181	2206	2213	2197	2198	2182	2199	2187	2177	2168	2167	0.8%
Into East South Central from:														
West South Central	5449	5424	5382	5301	5284	5228	5202	5166	5197	5215	5224	5200	5221	0.4%
Into West South Central from:														
Mountain	103	103	105	110	92	79	73	68	66	65	66	65	64	-2.3%
Arizona/New Mexico	113	100	93	89	83	75	71	67	66	65	65	64	63	-7.2%
Into Mountain from:														
Canada	35	35	34	33	35	35	37	37	38	39	39	40	41	4.0%
Into Pacific from:														
Mountain	115	120	140	155	152	154	153	150	149	141	137	132	126	0.4%
Canada (into WA)	142	135	143	158	146	139	133	124	118	110	103	95	89	-4.2%
Canada (through ID)	711	724	836	1001	981	993	1013	1009	1021	1021	1020	1022	1036	1.9%
Into Florida from:														
East South Central	606	587	546	527	518	497	481	480	478	492	499	485	480	-2.5%

Table 109. Primary Natural Gas Flows Entering NGTDM Region from Neighboring Regions (billion cubic feet per year)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Into Arizona/New Mexico from:														
Mountain	594	610	553	485	463	432	412	385	366	356	342	329	317	-2.9%
Into California from:														
Mountain	619	626	570	513	529	533	534	537	544	556	563	566	571	0.6%
Pacific	205	189	385	581	547	504	474	447	425	407	394	385	381	-1.0%
Arizona/New Mexico	1314	1315	1184	1074	1115	1135	1132	1145	1163	1170	1173	1167	1163	0.2%

Table 109. Primary Natural Gas Flows Entering NGTDM Region from Neighboring Regions (billion cubic feet per year)

NGTDM = Natural Gas Transmission and Distribution Model. See Figure F4 in Appendix F of the Annual Energy Outlook 2008 for a map of the regions.
Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 110. Coal Production and Minemouth Prices by Region
(production in million short tons; prices in 2006 dollars per short ton)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Production													
Appalachia 1/	397.33	391.89	383.87	387.80	386.15	380.94	369.12	359.47	348.25	342.07	340.04	342.91	332.45
Interior 2/	149.19	151.41	156.07	148.14	158.03	165.64	170.37	183.83	186.35	188.85	192.93	196.93	198.92
West	584.97	619.44	615.32	616.49	608.97	619.14	659.34	667.89	674.12	680.88	681.89	690.06	704.09
Northern Great Plains 3/	474.63	518.97	523.29	523.69	516.65	525.33	561.04	568.40	572.30	578.22	579.46	588.60	600.47
Other West and Non-Contiguous 4/	110.34	100.47	92.03	92.80	92.32	93.82	98.30	99.49	101.81	102.65	102.42	101.47	103.62
East of Mississippi River	493.79	490.80	481.23	481.66	484.28	487.72	481.21	476.08	465.41	462.38	459.88	466.17	456.54
West of Mississippi River	637.70	671.94	674.03	670.78	668.86	678.01	717.62	735.11	743.30	749.41	754.98	763.73	778.92
United States Total	1131.49	1162.74	1155.26	1152.44	1153.14	1165.72	1198.83	1211.19	1208.71	1211.79	1214.86	1229.90	1235.46
Minemouth Prices													
Appalachia 1/	42.97	44.44	46.00	47.34	47.29	47.31	46.14	44.86	43.93	42.85	41.77	41.35	40.79
Interior 2/	23.56	25.00	25.77	25.87	25.97	26.60	27.31	27.45	27.23	27.50	27.32	27.36	27.41
West	11.37	12.01	12.55	13.02	13.02	13.02	13.07	13.05	13.08	13.15	13.09	13.01	13.08
Northern Great Plains 3/	8.48	9.41	10.16	10.59	10.59	10.65	10.72	10.69	10.67	10.74	10.72	10.70	10.76
Other West and Non-Contiguous 4/	23.82	25.44	26.16	26.74	26.60	26.34	26.48	26.52	26.66	26.68	26.55	26.44	26.50
East of Mississippi River	39.97	41.44	42.98	44.22	44.16	43.98	43.07	42.00	41.18	40.29	39.43	39.13	38.65
West of Mississippi River	11.77	12.35	12.94	13.30	13.31	13.34	13.35	13.45	13.49	13.57	13.61	13.49	13.58
United States Total	24.07	24.63	25.45	26.22	26.27	26.16	25.28	24.67	24.15	23.77	23.38	23.21	22.84

Table 110. Coal Production and Minemouth Prices by Region
(production in million short tons; prices in 2006 dollars per short ton)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Production														
Appalachia 1/	319.28	323.79	326.65	332.80	330.68	326.81	324.64	323.66	321.68	322.00	323.81	322.30	328.15	-0.7%
Interior 2/	195.93	199.00	198.82	199.61	205.66	208.66	213.14	218.74	221.63	225.42	231.18	237.44	241.09	2.0%
West	727.95	734.81	744.55	758.01	768.40	791.00	809.08	820.31	835.45	847.72	863.01	872.43	885.32	1.5%
Northern Great Plains 3/	623.45	627.78	636.08	646.96	654.83	673.89	688.05	695.41	707.34	716.70	728.67	735.98	747.16	1.5%
Other West and Non-Contiguous 4/	104.50	107.03	108.47	111.06	113.57	117.11	121.03	124.91	128.11	131.02	134.35	136.45	138.16	1.3%
East of Mississippi River	439.16	445.71	446.91	453.57	456.44	454.01	455.11	456.83	458.35	462.53	469.30	470.70	481.03	-0.1%
West of Mississippi River	803.99	811.88	823.11	836.86	848.30	872.45	891.76	905.89	920.40	932.61	948.71	961.46	973.54	1.6%
United States Total	1243.16	1257.60	1270.02	1290.42	1304.74	1326.46	1346.86	1362.72	1378.76	1395.14	1418.01	1432.16	1454.57	0.9%
Minemouth Prices														
Appalachia 1/	40.44	40.25	40.24	40.36	40.52	40.48	40.54	40.55	40.55	40.61	40.72	40.74	40.99	-0.3%
Interior 2/	27.11	27.12	27.08	26.96	27.41	27.61	27.99	28.21	28.65	29.05	29.46	29.63	30.02	0.8%
West	13.31	13.43	13.52	13.55	13.74	13.87	14.10	14.27	14.44	14.59	14.76	14.85	14.95	0.9%
Northern Great Plains 3/	11.09	11.16	11.24	11.24	11.38	11.48	11.67	11.76	11.89	12.01	12.12	12.18	12.28	1.1%
Other West and Non-Contiguous 4/	26.57	26.74	26.90	27.04	27.34	27.62	27.88	28.23	28.49	28.71	29.02	29.25	29.34	0.6%
East of Mississippi River	38.28	38.11	38.11	38.18	38.35	38.33	38.43	38.50	38.55	38.69	38.84	38.93	39.17	-0.2%
West of Mississippi River	13.81	13.93	14.04	14.06	14.25	14.40	14.62	14.81	14.97	15.11	15.28	15.39	15.49	0.9%
United States Total	22.45	22.50	22.51	22.54	22.68	22.59	22.67	22.75	22.81	22.93	23.08	23.13	23.32	-0.2%

Table 110. Coal Production and Minemouth Prices by Region
(production in million short tons; prices in 2006 dollars per short ton)

1/ Appalachia: Pennsylvania, Ohio, Maryland, West Virginia, Virginia, Tennessee, Alabama, Eastern Kentucky.

2/ Interior: Western Kentucky, Illinois, Indiana, Iowa, Missouri, Mississippi, Kansas, Oklahoma, Arkansas, Texas, Louisiana.

3/ Northern Great Plains: North Dakota, Montana, Wyoming.

4/ Other West and Non-Contiguous: Colorado, Utah, Arizona, New Mexico, Washington, Alaska.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 111. Coal Production by Region and Type (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Northern Appalachia 1/	140.08	136.36	143.18	144.16	142.94	152.74	166.31	166.87	166.96	170.07	173.00	174.48	171.90
Medium Sulfur (Premium) 2/	3.50	3.37	2.56	3.30	3.30	3.58	3.76	3.83	3.99	4.10	3.80	3.87	3.83
Medium Sulfur (Bituminous)	75.02	66.75	63.81	66.80	67.53	63.36	72.46	69.38	69.43	68.76	68.12	66.90	62.77
High Sulfur (Bituminous)	61.56	66.24	76.81	74.06	72.11	85.80	90.08	93.65	93.55	97.20	101.08	103.70	105.30
Central Appalachia	235.79	236.51	219.06	221.32	220.60	206.43	180.78	169.07	156.67	147.76	143.15	144.46	136.69
Medium Sulfur (Premium) 2/	39.22	38.26	40.68	41.69	42.40	44.11	41.52	38.49	35.16	31.90	29.07	28.40	26.98
Low Sulfur (Bituminous)	47.13	44.88	42.92	42.90	41.58	39.13	37.44	37.87	35.62	33.27	31.69	32.68	31.03
Medium Sulfur (Bituminous)	149.44	153.37	135.46	136.72	136.61	123.19	101.82	92.71	85.88	82.59	82.40	83.38	78.68
Southern Appalachia	21.46	19.02	21.63	22.32	22.61	21.77	22.04	23.53	24.62	24.24	23.88	23.97	23.86
Low Sulfur (Premium) 2/	8.08	7.38	10.25	10.91	11.02	10.88	11.11	11.44	11.72	12.16	11.81	11.57	11.30
Low Sulfur (Bituminous)	0.52	0.19	0.30	0.32	0.32	0.34	0.34	0.39	0.41	0.41	0.40	0.40	0.39
Medium Sulfur (Bituminous)	12.86	11.45	11.08	11.09	11.26	10.55	10.59	11.70	12.49	11.67	11.67	12.00	12.17
Eastern Interior	96.46	98.91	97.36	93.85	98.13	106.78	112.09	116.61	117.16	120.32	119.84	123.26	124.09
Medium Sulfur (Bituminous)	29.25	26.41	25.50	24.37	29.58	30.35	32.10	32.24	32.63	33.41	32.87	33.38	32.89
High Sulfur (Bituminous)	63.65	68.70	68.79	66.45	65.52	73.40	76.95	81.34	81.50	82.55	82.39	85.16	86.34
Medium Sulfur (Lignite)	3.56	3.80	3.07	3.03	3.03	3.03	3.04	3.03	3.03	4.36	4.58	4.71	4.85
Western Interior High Sulfur (Bituminous)	2.63	2.84	2.26	2.27	2.25	3.35	2.86	3.67	3.19	3.66	3.80	3.71	3.63
Gulf	50.10	49.66	56.45	52.02	57.65	55.51	55.42	63.55	66.00	64.88	69.29	69.96	71.20
Medium Sulfur (Lignite)	23.32	33.37	37.31	31.30	35.77	34.99	35.66	40.45	41.97	41.05	43.71	43.10	44.64
High Sulfur (Lignite)	26.78	16.29	19.14	20.72	21.87	20.52	19.77	23.10	24.03	23.83	25.58	26.86	26.56
Dakota Medium Sulfur (Lignite)	30.29	30.79	30.54	30.27	29.30	29.31	36.28	36.41	37.12	38.10	41.50	45.03	48.46
Western Montana	40.02	41.44	42.74	44.05	43.17	43.93	44.30	45.89	47.40	48.08	46.94	48.61	50.21
Low Sulfur (Sub-Bituminous)	20.59	22.79	24.63	26.04	25.15	24.43	24.57	25.59	26.71	26.55	24.99	26.44	27.50
Medium Sulfur (Sub-Bituminous)	19.43	18.65	18.11	18.01	18.02	19.50	19.73	20.30	20.69	21.53	21.95	22.17	22.72
Wyoming, Powder River Basin	390.13	431.07	436.31	435.67	428.54	436.64	465.37	472.48	474.24	478.55	477.03	481.45	486.84
Low Sulfur (Sub-Bituminous)	386.55	427.08	431.41	430.87	423.71	431.02	459.36	466.05	467.37	471.20	469.15	473.03	477.83
Medium Sulfur (Sub-Bituminous)	3.58	3.99	4.89	4.80	4.83	5.61	6.01	6.43	6.88	7.36	7.87	8.43	9.01
Western Wyoming	14.19	15.67	13.70	13.70	15.65	15.45	15.08	13.63	13.54	13.49	14.00	13.50	14.95
Low Sulfur (Sub-Bituminous)	3.99	3.77	3.88	3.94	11.24	11.07	10.74	10.74	10.69	10.65	10.61	10.57	10.53
Medium Sulfur (Sub-Bituminous)	10.20	11.90	9.82	9.76	4.41	4.39	4.34	2.89	2.85	2.84	3.40	2.94	4.43

Table 111. Coal Production by Region and Type (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rocky Mountain	63.03	62.34	56.38	56.54	56.21	55.31	59.23	60.00	61.69	62.18	62.06	60.41	62.56
Low Sulfur (Bituminous)	52.96	52.68	46.90	47.12	46.51	45.85	50.12	50.92	52.63	52.81	52.49	51.21	53.03
Low Sulfur (Sub-Bituminous)	10.07	9.66	9.48	9.42	9.70	9.46	9.11	9.08	9.06	9.37	9.57	9.21	9.53
Arizona/New Mexico	40.59	34.13	34.64	34.99	35.10	36.19	36.63	37.28	38.03	38.29	38.16	38.95	38.90
Low Sulfur (Bituminous)	17.43	12.99	13.46	12.97	13.10	14.15	15.39	15.77	15.82	16.36	16.33	16.94	16.90
Medium Sulfur (Bituminous)	7.91	6.99	5.69	5.61	6.23	6.21	6.21	6.21	6.22	6.21	6.04	6.00	6.08
Medium Sulfur (Sub-Bituminous)	15.25	14.15	15.49	16.41	15.77	15.82	15.02	15.30	15.99	15.72	15.79	16.00	15.92
Washington/Alaska													
Medium Sulfur (Sub-Bituminous)	6.72	4.00	1.01	1.28	1.02	2.32	2.45	2.20	2.09	2.19	2.20	2.11	2.16
Subtotals: All Regions													
Premium Metallurgical 2/	50.80	49.01	53.49	55.91	56.72	58.57	56.39	53.77	50.87	48.16	44.67	43.85	42.11
Bituminous	520.36	513.49	492.98	490.69	492.61	495.68	496.36	495.86	489.36	488.90	489.29	495.47	489.21
Sub-Bituminous	476.38	515.99	518.73	520.53	513.84	523.62	551.33	558.57	562.33	567.40	565.52	570.88	579.62
Lignite	83.95	84.25	90.06	85.32	89.97	87.85	94.74	102.99	106.15	107.34	115.37	119.71	124.51
Low Sulfur	547.32	581.42	583.24	584.49	582.33	586.32	618.17	627.84	630.03	632.77	627.03	632.04	638.03
Medium Sulfur	429.55	427.25	405.01	404.44	409.06	396.33	391.00	381.59	376.42	371.79	374.97	378.43	375.60
High Sulfur	154.62	154.07	167.01	163.50	161.75	183.07	189.66	201.76	202.26	207.23	212.86	219.44	221.83
Underground	368.15	358.54	342.37	339.84	348.28	357.52	369.93	367.12	364.23	358.85	354.83	361.23	359.03
Surface	763.34	804.20	812.89	812.60	804.86	808.21	828.90	844.06	844.48	852.95	860.03	868.67	876.43
United States Total	1131.49	1162.74	1155.26	1152.44	1153.14	1165.72	1198.83	1211.19	1208.71	1211.79	1214.86	1229.90	1235.46

Table 111. Coal Production by Region and Type (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Northern Appalachia 1/	167.55	172.69	173.56	178.22	181.30	179.90	181.62	182.77	182.53	183.35	185.77	186.97	192.08	1.4%
Medium Sulfur (Premium) 2/	3.83	3.99	3.98	4.02	4.02	3.94	3.98	4.01	3.97	3.97	3.97	3.97	3.94	0.6%
Medium Sulfur (Bituminous)	62.00	62.61	63.65	65.04	65.10	64.41	64.54	64.41	64.65	65.36	66.28	66.30	67.85	0.1%
High Sulfur (Bituminous)	101.71	106.09	105.93	109.16	112.18	111.55	113.10	114.35	113.91	114.02	115.52	116.70	120.30	2.5%
Central Appalachia	128.98	128.21	131.07	131.81	126.82	124.92	120.89	119.08	117.66	117.52	116.66	114.45	115.22	-3.0%
Medium Sulfur (Premium) 2/	27.84	27.13	26.86	27.26	27.47	27.01	27.36	27.56	27.47	27.46	27.44	27.42	27.43	-1.4%
Low Sulfur (Bituminous)	30.68	27.77	28.84	29.25	26.71	26.81	24.61	23.75	21.32	22.25	21.61	20.94	20.67	-3.2%
Medium Sulfur (Bituminous)	70.46	73.31	75.37	75.30	72.64	71.10	68.92	67.77	68.86	67.81	67.60	66.09	67.11	-3.4%
Southern Appalachia	22.75	22.89	22.02	22.78	22.55	21.98	22.13	21.81	21.49	21.12	21.39	20.89	20.85	0.4%
Low Sulfur (Premium) 2/	11.18	11.52	11.57	11.61	11.61	11.42	11.37	11.46	11.46	11.35	11.14	10.84	10.52	1.5%
Low Sulfur (Bituminous)	0.39	0.37	0.23	0.32	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	2.4%
Medium Sulfur (Bituminous)	11.18	11.00	10.22	10.85	10.61	10.24	10.43	10.01	9.69	9.44	9.91	9.70	10.00	-0.6%
Eastern Interior	119.89	121.92	120.26	120.76	125.76	127.20	130.47	133.16	136.68	140.53	145.49	148.40	152.88	1.8%
Medium Sulfur (Bituminous)	32.33	31.85	32.05	32.59	32.52	32.48	32.40	32.11	32.22	32.35	32.67	32.27	33.29	1.0%
High Sulfur (Bituminous)	82.69	85.30	83.90	83.59	88.73	90.26	93.61	96.67	100.12	103.84	108.49	111.83	115.20	2.2%
Medium Sulfur (Lignite)	4.86	4.77	4.32	4.58	4.51	4.46	4.46	4.39	4.34	4.34	4.33	4.30	4.39	0.6%
Western Interior High Sulfur (Bituminous)	3.54	3.49	3.69	3.58	3.69	3.90	3.96	3.98	4.05	3.98	4.05	4.09	4.13	1.6%
Gulf	72.51	73.59	74.87	75.26	76.21	77.55	78.72	81.60	80.90	80.92	81.64	84.94	84.09	2.2%
Medium Sulfur (Lignite)	44.51	44.92	43.89	44.51	45.07	44.66	45.79	45.96	46.15	46.37	46.78	50.12	48.87	1.6%
High Sulfur (Lignite)	28.00	28.67	30.98	30.74	31.13	32.90	32.93	35.64	34.74	34.55	34.86	34.82	35.22	3.3%
Dakota Medium Sulfur (Lignite)	57.13	62.96	66.98	69.56	72.74	75.68	78.29	80.84	83.18	84.88	86.19	87.38	87.71	4.5%
Western Montana	51.57	52.39	53.18	55.52	60.03	63.90	66.67	67.62	69.30	71.27	73.12	73.58	76.05	2.6%
Low Sulfur (Sub-Bituminous)	28.43	29.30	29.89	31.48	34.79	37.98	40.15	40.58	41.48	43.41	45.24	45.75	48.33	3.2%
Medium Sulfur (Sub-Bituminous)	23.14	23.09	23.30	24.04	25.24	25.92	26.52	27.04	27.83	27.86	27.88	27.83	27.72	1.7%
Wyoming, Powder River Basin	500.01	497.56	500.48	506.47	506.86	518.94	527.69	531.51	538.97	544.55	553.26	558.63	567.38	1.2%
Low Sulfur (Sub-Bituminous)	490.37	487.78	490.22	495.64	495.66	507.49	515.95	519.91	527.42	532.90	541.55	547.07	555.16	1.1%
Medium Sulfur (Sub-Bituminous)	9.65	9.78	10.26	10.83	11.20	11.46	11.74	11.61	11.55	11.65	11.71	11.56	12.22	4.8%
Western Wyoming	14.73	14.87	15.43	15.40	15.20	15.36	15.40	15.43	15.88	16.00	16.10	16.39	16.02	0.1%
Low Sulfur (Sub-Bituminous)	10.52	10.52	10.52	10.51	10.51	10.51	10.51	10.51	10.51	10.50	10.50	10.50	10.50	4.4%
Medium Sulfur (Sub-Bituminous)	4.21	4.35	4.92	4.89	4.69	4.85	4.89	4.93	5.38	5.49	5.60	5.89	5.52	-3.1%

Table 111. Coal Production by Region and Type (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Rocky Mountain	61.43	64.05	66.42	69.00	72.04	75.24	78.41	81.07	83.45	86.04	88.85	91.11	91.86	1.6%
Low Sulfur (Bituminous)	52.19	54.52	56.72	59.00	61.69	64.42	67.24	69.47	71.76	74.14	76.70	78.65	79.56	1.7%
Low Sulfur (Sub-Bituminous)	9.24	9.53	9.71	10.00	10.35	10.82	11.17	11.60	11.70	11.90	12.15	12.47	12.30	1.0%
Arizona/New Mexico	39.98	39.87	39.08	38.99	38.37	38.20	38.75	39.76	40.53	40.81	41.39	41.21	42.22	0.9%
Low Sulfur (Bituminous)	17.74	17.58	17.47	16.85	16.92	16.26	16.08	16.93	17.42	17.47	17.83	17.73	17.96	1.4%
Medium Sulfur (Bituminous)	5.98	6.00	5.75	5.97	5.75	5.75	5.69	5.79	5.70	5.64	5.52	5.57	5.80	-0.8%
Medium Sulfur (Sub-Bituminous)	16.27	16.30	15.85	16.17	15.70	16.19	16.99	17.04	17.40	17.69	18.03	17.92	18.45	1.1%
Washington/Alaska														
Medium Sulfur (Sub-Bituminous)	3.09	3.11	2.97	3.07	3.16	3.67	3.87	4.08	4.13	4.17	4.11	4.12	4.08	0.1%
Subtotals: All Regions														
Premium Metallurgical 2/	42.85	42.63	42.41	42.89	43.10	42.37	42.71	43.04	42.91	42.78	42.55	42.24	41.89	-0.7%
Bituminous	470.89	479.90	483.81	491.50	496.88	497.51	500.90	505.56	510.04	516.64	526.53	530.20	542.21	0.2%
Sub-Bituminous	594.91	593.75	597.63	606.63	611.29	628.89	641.79	647.29	657.39	665.57	676.77	683.11	694.28	1.2%
Lignite	134.50	141.32	146.18	149.40	153.46	157.70	161.47	166.83	168.42	170.14	172.16	176.62	176.19	3.1%
Low Sulfur	650.74	648.88	655.15	664.66	668.57	686.02	697.41	704.54	713.40	724.27	737.07	744.28	755.34	1.1%
Medium Sulfur	376.48	385.16	390.38	398.69	400.42	401.83	405.86	407.55	412.54	414.48	418.02	420.44	424.38	0.0%
High Sulfur	215.94	223.55	224.49	227.07	235.74	238.61	243.59	250.63	252.82	256.39	262.92	267.44	274.84	2.4%
Underground	343.61	357.87	362.24	370.08	377.95	381.26	386.24	391.85	396.80	403.37	413.21	417.59	427.00	0.7%
Surface	899.55	899.72	907.78	920.34	926.79	945.21	960.62	970.86	981.95	991.76	1004.80	1014.57	1027.57	1.0%
United States Total	1243.16	1257.60	1270.02	1290.42	1304.74	1326.46	1346.86	1362.72	1378.75	1395.13	1418.01	1432.16	1454.56	0.9%

Table 111. Coal Production by Region and Type (million short tons)

1/ Includes Pennsylvania anthracite.

2/ "Premium" coal is used to make metallurgical coke.

Northern Appalachia: Pennsylvania, Maryland, Ohio, Northern West Virginia.

Central Appalachia: Southern West Virginia, Virginia, Eastern Kentucky, Northern Tennessee.

Southern Appalachia: Alabama, Southern Tennessee.

Eastern Interior: Illinois, Indiana, Mississippi, Western Kentucky.

Western Interior: Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas (bituminous).

Gulf (lignite Only): Texas, Louisiana, Arkansas.

Dakota: North Dakota, Montana (lignite).

Western Montana: Montana (subbituminous).

Wyoming, Powder River Basin: Wyoming portion of Powder River Basin.

Western Wyoming: Wyoming other than Powder River Basin.

Rocky Mountain: Colorado, Utah.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million British thermal unit.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million British thermal unit.

High Sulfur: Over 1.67 pounds of sulfur per million British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 112. Coal Prices by Region and Type (2006 dollars per short ton)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Northern Appalachia 1/	35.07	35.65	36.73	37.72	37.58	39.15	39.65	39.23	38.97	38.54	38.04	37.84	37.40
Medium Sulfur (Premium) 2/	70.03	79.77	67.56	69.56	69.57	68.73	68.18	67.57	67.26	66.88	65.21	64.00	62.96
Medium Sulfur (Bituminous)	36.76	37.86	38.69	40.12	40.31	39.40	39.24	38.42	38.21	37.76	37.51	37.13	36.63
High Sulfur (Bituminous)	31.01	31.18	34.07	34.14	33.55	37.73	38.78	38.67	38.33	37.90	37.37	37.32	36.94
Central Appalachia	46.54	49.21	51.24	52.61	52.55	52.32	50.72	48.69	47.10	45.49	43.91	43.31	42.68
Medium Sulfur (Premium) 2/	66.09	71.83	75.02	78.17	78.80	80.13	75.94	72.44	69.78	66.77	63.35	61.16	59.91
Low Sulfur (Bituminous)	44.57	46.17	50.77	51.46	50.37	48.62	47.39	47.01	46.33	45.09	44.18	44.29	43.99
Medium Sulfur (Bituminous)	42.02	44.45	44.25	45.18	45.06	43.54	41.67	39.52	38.13	37.43	36.95	36.85	36.25
Southern Appalachia	55.30	48.28	54.26	57.23	57.37	57.02	57.60	57.26	57.39	57.01	56.05	55.11	54.43
Low Sulfur (Premium) 2/	73.14	61.40	69.77	74.11	74.32	73.39	72.84	72.19	71.92	71.52	70.24	68.86	67.61
Low Sulfur (Bituminous)	49.29	43.92	48.16	49.07	48.95	49.97	49.68	52.82	54.15	54.24	53.83	55.13	55.08
Medium Sulfur (Bituminous)	44.33	39.90	40.07	40.86	41.02	40.38	41.88	42.80	43.85	41.99	41.78	41.85	42.18
Eastern Interior	w	w	31.07	31.33	31.85	32.10	32.93	33.18	33.00	33.00	32.77	32.96	32.92
Medium Sulfur (Bituminous)	31.14	33.58	36.74	35.77	36.87	37.06	38.30	37.74	37.45	37.59	37.16	37.25	37.08
High Sulfur (Bituminous)	26.62	28.70	29.63	30.39	30.33	30.72	31.36	32.03	31.86	31.92	31.76	32.03	32.09
Medium Sulfur (Lignite)	w	w	16.25	16.28	15.94	15.82	15.78	15.68	15.61	18.32	19.41	19.44	19.46
Western Interior High Sulfur (Bituminous)	30.35	30.18	27.47	27.01	25.64	28.45	27.88	30.55	30.62	31.52	32.34	32.18	32.03
Gulf	w	w	16.55	15.96	15.96	15.91	15.93	16.74	16.83	17.06	17.64	17.22	17.59
Medium Sulfur (Lignite)	w	w	17.33	16.86	16.93	16.93	17.02	17.91	18.03	18.25	18.80	18.44	18.81
High Sulfur (Lignite)	w	w	15.05	14.59	14.36	14.17	13.96	14.70	14.75	15.01	15.65	15.25	15.53
Dakota Medium Sulfur (Lignite)	w	w	10.59	10.73	10.42	10.29	11.14	10.93	11.06	11.23	11.79	11.80	12.03
Western Montana	w	w	11.16	11.74	11.48	11.46	11.40	11.37	11.34	11.35	11.24	11.15	11.20
Low Sulfur (Sub-Bituminous)	9.92	9.49	10.69	11.36	10.94	10.60	10.45	10.43	10.43	10.32	10.05	10.01	10.15
Medium Sulfur (Sub-Bituminous)	w	w	11.81	12.28	12.22	12.54	12.58	12.56	12.52	12.62	12.59	12.52	12.47
Wyoming, Powder River Basin	w	w	9.65	10.08	10.05	10.14	10.25	10.28	10.26	10.34	10.27	10.26	10.29
Low Sulfur (Sub-Bituminous)	7.73	8.78	9.65	10.08	10.05	10.13	10.21	10.24	10.21	10.30	10.22	10.21	10.24
Medium Sulfur (Sub-Bituminous)	w	w	9.92	9.94	9.76	10.49	13.30	13.21	13.32	13.21	13.13	13.05	13.16
Western Wyoming	w	w	22.18	22.74	23.24	23.38	22.36	22.01	21.66	21.40	21.05	20.93	20.43
Low Sulfur (Sub-Bituminous)	w	w	18.19	18.87	23.68	24.41	23.35	22.85	22.58	22.40	22.21	22.05	21.97
Medium Sulfur (Sub-Bituminous)	22.58	23.92	23.76	24.30	22.13	20.78	19.93	18.90	18.20	17.68	17.44	16.91	16.78
Rocky Mountain	21.94	24.35	24.33	25.38	25.53	25.27	25.34	25.43	25.67	25.65	25.57	25.30	25.43
Low Sulfur (Bituminous)	21.92	24.30	24.13	25.23	25.40	25.13	25.29	25.47	25.78	25.75	25.63	25.35	25.49
Low Sulfur (Sub-Bituminous)	22.06	24.64	25.33	26.12	26.14	25.94	25.61	25.22	25.00	25.10	25.26	25.03	25.15
Arizona/New Mexico	w	w	29.37	29.28	28.60	28.60	28.92	28.83	28.79	28.89	28.69	28.73	28.74
Low Sulfur (Bituminous)	w	w	31.60	30.28	28.89	29.08	30.13	30.28	30.26	30.50	30.35	30.51	30.54
Medium Sulfur (Bituminous)	w	w	32.45	32.70	32.96	32.86	32.67	32.45	32.27	32.11	31.76	31.49	31.44
Medium Sulfur (Sub-Bituminous)	w	w	26.29	27.33	26.64	26.49	26.14	25.87	25.98	25.95	25.79	25.81	25.81

Table 112. Coal Prices by Region and Type (2006 dollars per short ton)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Washington/Alaska													
Medium Sulfur (Sub-Bituminous)	w	w	18.42	17.69	16.40	16.75	17.41	17.15	17.15	17.11	17.04	16.92	16.96
Average by Type: All Regions													
Premium Metallurgical 2/	67.48	70.81	73.66	76.87	77.39	78.18	74.81	72.04	70.07	67.98	65.33	63.45	62.25
Bituminous	35.04	36.55	37.52	38.27	38.10	37.70	37.21	36.63	36.14	35.69	35.32	35.31	34.97
Sub-Bituminous	9.30	10.15	10.91	11.41	11.40	11.45	11.39	11.35	11.33	11.39	11.33	11.29	11.33
Lignite	13.65	13.82	14.52	14.11	14.15	14.03	14.09	14.66	14.78	15.04	15.60	15.27	15.50
Low Sulfur	14.31	14.51	15.78	16.38	16.39	16.07	15.79	15.79	15.67	15.57	15.33	15.25	15.14
Medium Sulfur	35.72	37.15	37.52	38.90	39.04	38.33	36.52	34.84	33.71	32.70	31.67	31.13	30.28
High Sulfur	26.28	28.11	29.97	30.04	29.54	32.11	33.02	33.10	32.80	32.77	32.50	32.48	32.41
United States Average	24.07	24.63	25.45	26.22	26.27	26.16	25.28	24.67	24.15	23.77	23.38	23.21	22.84
Waste Coal	11.86	11.50	12.14	12.21	11.84	11.57	11.23	11.16	11.34	11.53	11.55	11.36	10.96

Table 112. Coal Prices by Region and Type (2006 dollars per short ton)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Northern Appalachia 1/	36.67	36.75	36.58	36.65	36.90	36.79	36.95	36.93	37.00	37.06	37.24	37.23	37.62	0.2%
Medium Sulfur (Premium) 2/	62.61	63.04	63.42	63.89	64.46	64.81	65.24	65.90	66.37	66.83	67.25	67.75	68.25	-0.6%
Medium Sulfur (Bituminous)	36.07	35.90	35.93	36.09	36.25	36.21	36.23	36.18	36.19	36.35	36.53	36.59	36.86	-0.1%
High Sulfur (Bituminous)	36.06	36.27	35.96	35.98	36.29	36.14	36.36	36.35	36.43	36.43	36.61	36.56	37.04	0.7%
Central Appalachia	42.81	42.29	42.48	42.77	42.94	43.01	43.06	43.11	42.97	43.06	43.15	43.36	43.58	-0.5%
Medium Sulfur (Premium) 2/	59.56	59.98	60.35	60.83	61.41	61.76	62.19	62.86	63.33	63.79	64.20	64.70	65.20	-0.4%
Low Sulfur (Bituminous)	43.97	42.84	43.53	43.83	43.30	43.34	42.58	42.06	41.40	41.31	41.09	41.03	41.09	-0.5%
Medium Sulfur (Bituminous)	35.69	35.54	35.71	35.82	35.83	35.77	35.64	35.45	35.33	35.24	35.26	35.24	35.51	-0.9%
Southern Appalachia	54.73	55.16	55.73	55.44	55.94	56.27	56.23	56.92	57.47	57.77	57.68	57.89	57.72	0.7%
Low Sulfur (Premium) 2/	67.27	67.75	68.18	68.65	69.25	69.63	70.08	70.86	71.59	72.16	72.61	73.14	73.68	0.8%
Low Sulfur (Bituminous)	54.03	53.00	52.30	49.90	49.94	50.44	50.88	51.32	51.72	52.04	52.43	52.76	53.06	0.8%
Medium Sulfur (Bituminous)	42.20	42.05	41.71	41.48	41.57	41.56	41.31	41.16	40.97	40.68	41.09	41.03	41.09	0.1%
Eastern Interior	32.54	32.43	32.33	32.19	32.64	32.80	33.19	33.50	33.85	34.28	34.67	34.98	35.26	0.7%
Medium Sulfur (Bituminous)	36.83	36.46	36.41	36.43	36.51	36.47	36.47	36.40	36.37	36.37	36.47	36.52	36.78	0.4%
High Sulfur (Bituminous)	31.64	31.68	31.49	31.28	31.95	32.20	32.77	33.23	33.73	34.31	34.79	35.19	35.48	0.9%
Medium Sulfur (Lignite)	19.34	19.10	18.35	18.44	18.44	18.35	18.30	18.21	18.13	18.09	18.10	18.07	18.18	0.3%
Western Interior High Sulfur (Bituminous)	31.80	31.77	32.45	32.12	32.56	33.56	34.05	34.46	34.90	35.10	35.45	35.58	35.94	0.7%
Gulf	17.92	18.09	18.37	18.32	18.54	18.79	19.07	19.27	19.53	19.67	19.87	20.00	20.19	1.1%
Medium Sulfur (Lignite)	19.04	19.34	19.32	19.36	19.54	19.62	19.87	20.10	20.35	20.47	20.67	20.76	20.96	0.9%
High Sulfur (Lignite)	16.12	16.14	17.02	16.82	17.08	17.66	17.95	18.19	18.46	18.59	18.79	18.90	19.11	1.7%
Dakota Medium Sulfur (Lignite)	14.56	14.24	14.31	14.17	14.53	14.51	14.76	14.75	15.02	15.27	15.48	15.27	15.31	1.6%
Western Montana	11.25	11.31	11.36	11.44	11.85	12.35	13.36	13.49	13.65	13.77	13.93	13.97	14.23	1.3%
Low Sulfur (Sub-Bituminous)	10.26	10.39	10.46	10.65	11.27	12.04	13.67	13.86	14.12	14.32	14.59	14.69	15.07	1.9%
Medium Sulfur (Sub-Bituminous)	12.47	12.47	12.51	12.47	12.64	12.80	12.88	12.93	12.96	12.92	12.87	12.80	12.76	0.5%
Wyoming, Powder River Basin	10.40	10.48	10.53	10.54	10.61	10.68	10.75	10.84	10.93	11.02	11.13	11.22	11.33	1.1%
Low Sulfur (Sub-Bituminous)	10.35	10.42	10.48	10.48	10.54	10.61	10.69	10.78	10.88	10.97	11.07	11.17	11.28	1.0%
Medium Sulfur (Sub-Bituminous)	13.21	13.29	13.31	13.37	13.44	13.54	13.64	13.60	13.57	13.57	13.61	13.55	13.74	2.6%
Western Wyoming	20.47	20.40	20.21	20.11	20.24	20.23	20.22	20.22	20.20	20.20	20.22	20.26	20.27	-0.4%
Low Sulfur (Sub-Bituminous)	21.89	21.87	21.80	21.70	21.70	21.65	21.62	21.62	21.59	21.53	21.51	21.48	21.48	0.9%
Medium Sulfur (Sub-Bituminous)	16.91	16.83	16.80	16.68	16.98	17.17	17.21	17.25	17.49	17.66	17.79	18.09	17.97	-1.2%
Rocky Mountain	25.32	25.56	25.93	26.30	26.86	27.38	27.76	28.15	28.39	28.65	28.99	29.30	29.32	0.8%
Low Sulfur (Bituminous)	25.37	25.62	25.99	26.36	26.93	27.46	27.84	28.24	28.49	28.75	29.09	29.40	29.42	0.8%
Low Sulfur (Sub-Bituminous)	25.03	25.25	25.57	25.92	26.43	26.89	27.23	27.59	27.80	28.03	28.38	28.65	28.66	0.6%
Arizona/New Mexico	29.05	29.18	29.10	28.90	28.83	28.66	28.69	28.94	29.21	29.33	29.59	29.65	29.89	0.3%
Low Sulfur (Bituminous)	31.09	31.27	31.27	30.95	30.88	30.61	30.42	30.67	31.01	31.18	31.51	31.59	31.82	0.6%
Medium Sulfur (Bituminous)	31.23	31.17	30.85	30.73	30.56	30.49	30.39	30.37	30.28	30.15	30.06	30.02	30.05	-0.5%
Medium Sulfur (Sub-Bituminous)	26.03	26.19	26.09	26.08	25.99	26.06	26.49	26.74	27.05	27.25	27.55	27.60	27.96	0.5%

Table 112. Coal Prices by Region and Type (2006 dollars per short ton)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Washington/Alaska														
Medium Sulfur (Sub-Bituminous)	19.41	19.63	19.75	19.94	20.23	21.67	22.10	22.80	23.41	23.73	24.03	24.20	24.33	0.1%
Average by Type: All Regions														
Premium Metallurgical 2/	61.85	62.37	62.78	63.24	63.80	64.16	64.58	65.27	65.82	66.29	66.69	67.15	67.62	-0.2%
Bituminous	34.49	34.34	34.33	34.38	34.52	34.52	34.58	34.60	34.64	34.77	34.97	35.07	35.35	-0.1%
Sub-Bituminous	11.42	11.52	11.56	11.58	11.68	11.82	12.02	12.14	12.25	12.35	12.47	12.56	12.68	0.9%
Lignite	16.54	16.41	16.51	16.39	16.63	16.72	16.96	17.05	17.27	17.43	17.63	17.61	17.71	1.0%
Low Sulfur	15.10	15.10	15.27	15.33	15.38	15.45	15.51	15.65	15.67	15.82	15.92	16.00	16.05	0.4%
Medium Sulfur	29.86	29.54	29.44	29.40	29.36	29.15	29.10	29.01	29.00	29.03	29.16	29.04	29.30	-1.0%
High Sulfur	31.71	31.87	31.62	31.60	32.06	32.06	32.45	32.53	32.87	33.15	33.48	33.67	34.07	0.8%
United States Average	22.45	22.50	22.51	22.54	22.68	22.59	22.67	22.75	22.81	22.93	23.08	23.13	23.32	-0.2%
Waste Coal	10.69	10.71	10.81	10.82	10.84	10.85	10.84	10.75	10.78	10.98	10.87	11.19	11.28	-0.1%

Table 112. Coal Prices by Region and Type (2006 dollars per short ton)

1/ Includes Pennsylvania anthracite.

2/ "Premium" coal is used to make metallurgical coke.

Northern Appalachia: Pennsylvania, Maryland, Ohio, Northern West Virginia.

Central Appalachia: Southern West Virginia, Virginia, Eastern Kentucky, Northern Tennessee.

Southern Appalachia: Alabama, Southern Tennessee.

Eastern Interior: Illinois, Indiana, Mississippi, Western Kentucky.

Western Interior: Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas (bituminous).

Gulf (lignite Only): Texas, Louisiana, Arkansas.

Dakota: North Dakota, Montana (lignite).

Western Montana: Montana (subbituminous).

Wyoming, Powder River Basin: Wyoming portion of Powder River Basin.

Western Wyoming: Wyoming other than Powder River Basin.

Rocky Mountain: Colorado, Utah.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million British thermal unit.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million British thermal unit.

High Sulfur: Over 1.67 pounds of sulfur per million British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 113. World Steam Coal Flows By Importing Region and Exporting Countries 1,2/ (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Steam Coal Exports to Europe 3/													
Australia	3.4	4.2	5.6	4.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United States	3.7	5.8	7.3	10.8	14.8	18.8	17.5	16.0	14.4	12.4	8.2	5.1	0.3
South Africa	68.7	68.3	74.3	77.6	76.9	72.8	68.7	65.1	64.8	66.3	68.2	60.7	67.9
Eurasia 4/	42.0	49.0	51.8	52.9	54.2	55.1	58.4	61.4	61.2	61.0	60.8	60.6	60.4
Poland	14.9	11.1	10.3	9.8	9.1	8.6	8.2	7.7	7.1	6.6	6.0	5.9	5.4
Canada	0.0	0.2	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	2.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	36.4	37.2	42.1	44.9	48.9	50.3	52.3	54.4	56.6	57.4	59.9	70.0	68.4
Vietnam	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 5/	20.7	31.0	14.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	192.9	209.6	208.5	207.0	205.9	205.6	205.1	204.6	204.1	203.7	203.1	202.3	202.4
Steam Coal Exports to Asia													
Australia	112.8	112.8	117.0	124.0	131.8	139.7	138.5	138.3	141.5	146.5	151.7	147.2	160.4
United States	1.3	0.5	0.2	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.0	1.1
South Africa	4.3	3.1	0.0	0.0	4.6	11.4	16.5	21.2	22.6	22.1	21.3	29.1	21.9
Eurasia 4/	12.9	12.7	16.9	18.7	20.9	22.3	22.6	22.9	23.1	23.4	23.7	23.9	24.2
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	1.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	69.8	62.3	59.5	55.1	49.8	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	13.9	25.7	21.6	17.4	12.2	8.8	9.7	10.6	11.5	12.3	13.2	16.8	20.3
Indonesia 5/	102.6	144.1	162.5	174.3	181.8	183.8	186.2	188.1	189.8	191.6	193.4	195.9	195.1
Total	318.6	363.3	377.8	390.0	401.7	412.9	420.6	428.1	435.6	443.1	450.5	460.2	469.3
Steam Coal Exports to America													
Australia	6.6	7.8	4.8	0.3	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
United States	17.1	16.1	18.5	18.5	16.4	14.4	12.9	11.6	10.3	9.3	10.3	10.1	11.4
South Africa	1.1	1.1	5.0	5.1	5.3	5.4	5.4	5.5	5.6	5.7	5.7	5.8	6.3
Eurasia 4/	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.1	0.0	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.8
Canada	0.6	0.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	32.3	35.3	36.9	40.7	44.6	48.5	49.2	49.8	50.3	52.2	52.3	49.4	58.1
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 5/	3.9	6.5	4.3	4.0	4.6	4.6	4.4	4.7	5.2	5.6	6.0	5.0	7.4
Total	62.2	68.5	70.1	69.1	71.4	73.5	72.7	72.1	71.9	73.4	75.1	70.9	83.9

Table 113. World Steam Coal Flows By Importing Region and Exporting Countries 1,2/ (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Steam Coal Exports 6/													
Australia	123.1	124.8	127.4	128.6	133.7	139.9	138.9	138.3	141.5	146.5	151.7	147.2	160.4
United States	22.0	22.5	26.0	29.8	31.8	33.8	31.1	28.3	25.5	22.5	19.5	16.2	12.8
South Africa	76.3	75.0	79.3	82.7	86.8	89.5	90.7	91.8	93.0	94.1	95.3	95.6	96.0
Eurasia 4/	54.9	62.5	68.7	71.6	75.1	77.5	81.0	84.3	84.4	84.4	84.5	84.5	84.6
Poland	15.0	11.2	10.8	10.2	9.6	9.1	8.7	8.2	7.7	7.2	6.7	6.5	6.2
Canada	1.7	3.3	3.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	73.2	64.9	59.5	55.1	49.8	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
South America	68.8	72.6	79.0	85.6	93.5	98.8	101.5	104.2	106.9	109.6	112.3	119.4	126.5
Vietnam	14.1	25.9	21.6	17.4	12.2	8.8	9.7	10.6	11.5	12.3	13.2	16.8	20.3
Indonesia 5/	127.7	181.8	180.9	183.4	186.4	188.4	190.6	192.8	195.0	197.2	199.4	200.9	202.5
Total	576.7	644.4	656.4	666.1	679.0	692.1	698.4	704.8	711.7	720.2	728.8	733.4	755.6

Table 113. World Steam Coal Flows By Importing Region and Exporting Countries 1,2/ (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Steam Coal Exports to Europe 3/														
Australia	3.1	1.7	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	-6.5%
United States	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South Africa	79.8	76.3	72.9	72.3	70.6	69.2	67.8	67.7	67.4	67.2	66.8	66.6	66.3	-0.1%
Eurasia 4/	60.2	60.0	59.7	59.4	59.0	58.6	58.3	57.9	57.6	57.3	56.9	56.6	56.3	0.6%
Poland	4.9	4.6	4.4	4.2	3.9	3.6	3.3	3.0	3.0	3.0	3.1	3.0	3.1	-5.2%
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South America	54.4	58.9	62.9	62.9	63.9	64.8	65.6	65.1	64.6	64.1	63.7	63.2	62.7	2.2%
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Indonesia 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	202.6	201.8	201.0	199.7	198.4	197.1	195.8	194.6	193.5	192.5	191.4	190.3	189.3	-0.4%
Steam Coal Exports to Asia														
Australia	181.1	181.2	181.7	182.6	184.0	185.4	186.8	189.0	190.9	192.8	192.5	197.2	196.5	2.3%
United States	0.9	0.9	0.8	1.0	0.6	0.6	0.6	0.9	0.9	0.5	0.4	0.4	0.3	-2.7%
South Africa	9.9	13.5	17.1	18.7	21.2	23.5	25.9	26.8	27.7	28.5	29.6	30.2	31.2	10.1%
Eurasia 4/	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.6	27.0	27.4	27.9	28.3	28.8	3.5%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
China	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	-1.2%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Vietnam	23.8	27.3	30.9	32.6	34.4	36.2	37.9	39.7	39.7	39.7	39.7	39.7	39.7	1.8%
Indonesia 5/	191.3	193.3	195.0	196.5	196.8	197.0	197.2	197.7	199.7	202.1	206.3	205.5	210.2	1.6%
Total	477.8	487.4	496.9	503.1	509.0	515.0	520.9	527.0	532.1	537.3	542.7	547.5	553.0	1.8%
Steam Coal Exports to America														
Australia	0.0	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	1.3	1.5	-6.6%
United States	9.0	9.4	9.6	9.6	9.6	9.6	9.5	9.5	9.7	9.9	10.1	8.9	9.1	-2.4%
South Africa	6.7	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.9	7.9	8.6%
Eurasia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Poland	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.4	1.3	--
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South America	79.2	81.9	84.9	87.2	88.3	89.7	91.1	93.8	98.8	103.8	108.8	113.8	118.8	5.2%
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Indonesia 5/	12.7	12.3	12.1	12.2	13.4	14.8	16.1	17.1	16.7	15.8	13.1	15.5	12.3	2.7%
Total	108.8	111.8	115.1	117.5	120.1	122.9	125.7	129.5	134.3	138.7	141.1	148.9	150.9	3.3%

Table 113. World Steam Coal Flows By Importing Region and Exporting Countries 1,2/ (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Steam Coal Exports 6/														
Australia	184.3	183.3	183.0	183.8	185.2	186.5	187.9	190.0	191.9	193.7	193.4	199.3	198.9	2.0%
United States	10.1	10.5	10.4	10.6	10.2	10.2	10.1	10.4	10.5	10.4	10.6	9.3	9.3	-3.6%
South Africa	96.4	96.8	97.1	98.1	99.1	100.1	101.1	102.1	102.8	103.4	104.1	104.7	105.4	1.4%
Eurasia 4/	84.7	84.7	84.8	84.7	84.7	84.6	84.5	84.4	84.6	84.7	84.8	84.9	85.1	1.3%
Poland	6.0	5.8	5.5	5.3	5.1	4.9	4.6	4.4	4.4	4.4	4.4	4.4	4.4	-3.8%
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
China	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	-1.4%
South America	133.6	140.8	147.9	150.1	152.3	154.5	156.7	158.9	163.4	167.9	172.5	177.0	181.5	3.9%
Vietnam	23.8	27.3	30.9	32.6	34.4	36.2	37.9	39.7	39.7	39.7	39.7	39.7	39.7	1.8%
Indonesia 5/	204.0	205.6	207.1	208.7	210.2	211.7	213.3	214.8	216.4	217.9	219.5	221.0	222.5	0.8%
Total	789.2	801.0	813.0	820.3	827.5	835.0	842.5	851.1	859.9	868.5	875.2	886.7	893.1	1.4%

Table 113. World Steam Coal Flows By Importing Region and Exporting Countries 1,2/ (million short tons)

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ Eurasia consists of Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

5/ In 2006, steam coal exports from Indonesia include an additional 3.3 million short tons of exports from other countries not included in the forecast period.

6/ In 2006, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2006, the balancing item for steam coal amounted to 3.0 million short tons.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 16, No. 1 (London, United Kingdom, June 2007); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Metallurgical Coal Exports to Europe 3/													
Australia	32.3	33.6	21.4	18.4	15.8	15.2	14.9	15.2	17.3	19.7	23.1	25.4	28.7
United States	16.1	16.4	19.1	22.5	22.3	22.5	20.6	18.8	17.6	14.9	11.4	10.4	8.6
South Africa	1.1	0.9	0.8	0.9	0.8	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8
Eurasia 4/	3.2	2.8	2.1	2.1	2.1	2.1	2.3	2.5	2.7	2.9	3.2	3.2	3.2
Poland	1.4	1.0	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Canada	9.5	8.4	17.4	15.1	15.9	14.6	16.1	17.4	16.0	15.7	15.5	15.1	14.7
China	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 5/	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0
Total	63.8	63.6	62.0	60.1	58.5	57.0	56.5	56.1	55.6	55.3	55.1	56.0	57.0
Metallurgical Coal Exports to Asia 6/													
Australia	92.9	94.9	103.5	107.7	111.9	116.1	119.1	122.2	125.2	128.3	131.4	133.2	135.1
United States	3.7	1.5	1.1	1.1	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eurasia 4/	4.2	4.2	6.6	7.5	8.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	15.4	14.7	11.5	12.3	13.6	14.5	15.5	16.1	18.2	19.2	20.1	20.5	20.9
China	5.6	4.3	3.7	3.2	2.6	2.2	2.0	1.8	1.5	1.3	1.1	1.1	1.1
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indonesia 5/	19.8	23.1	21.6	21.6	21.1	21.1	21.1	21.5	21.6	21.6	21.6	21.6	21.6
Total	141.7	142.7	148.2	153.7	159.2	164.7	168.5	172.3	176.2	180.0	183.8	186.0	188.3
Metallurgical Coal Exports to America													
Australia	9.1	8.6	8.4	9.2	9.7	7.4	9.3	10.9	11.0	11.1	11.1	11.3	11.5
United States	8.1	9.4	11.9	12.5	13.4	14.1	14.2	14.1	14.2	14.3	14.5	14.6	14.7
South Africa	0.1	0.1	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8
Eurasia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	4.4	4.0	2.3	4.8	4.1	5.4	3.7	2.7	2.9	3.1	3.3	3.3	3.3
China	4.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 5/	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	21.9	22.3	23.1	27.1	27.8	27.5	27.9	28.4	28.8	29.2	29.6	29.9	30.3

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Metallurgical Coal Exports 7/													
Australia	134.5	137.1	133.3	135.2	137.3	138.7	143.3	148.3	153.5	159.0	165.6	170.0	175.3
United States	27.9	27.2	32.1	36.1	36.9	37.7	36.0	34.0	31.8	29.2	25.8	25.0	23.3
South Africa	1.3	1.2	1.3	1.5	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5
Eurasia 4/	7.4	7.0	8.7	9.6	10.7	11.4	11.7	11.9	12.1	12.3	12.5	12.5	12.5
Poland	1.4	1.1	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Canada	29.3	27.1	31.2	32.3	33.6	34.5	35.4	36.2	37.1	38.0	38.9	38.9	38.9
China	5.8	4.8	3.7	3.2	2.6	2.2	2.0	1.8	1.5	1.3	1.1	1.1	1.1
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indonesia 5/	20.0	23.1	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Total	227.5	228.7	233.3	240.9	245.5	249.1	252.9	256.8	260.6	264.5	268.5	272.0	275.6

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Metallurgical Coal Exports to Europe 3/														
Australia	29.2	29.6	31.2	31.4	31.8	33.2	33.3	33.5	33.7	33.9	34.2	34.4	34.6	0.1%
United States	9.3	9.0	8.7	9.0	9.1	8.2	8.5	8.7	8.7	8.8	8.8	8.8	8.8	-2.6%
South Africa	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0	--
Eurasia 4/	3.2	3.2	3.2	3.4	3.6	3.8	4.0	4.3	4.7	5.1	5.6	6.0	6.5	3.5%
Poland	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	-2.5%
Canada	14.3	15.0	14.6	14.4	14.1	13.9	13.7	13.5	13.3	13.0	12.8	12.5	12.2	1.6%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Indonesia 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	57.7	58.5	59.4	59.6	59.9	60.3	60.5	60.8	61.1	61.5	61.9	62.2	62.6	-0.1%
Metallurgical Coal Exports to Asia 6/														
Australia	137.0	138.9	140.7	142.6	144.5	146.3	148.2	150.0	151.9	153.8	155.7	157.5	159.4	2.2%
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.4	0.6	-3.9%
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Eurasia 4/	9.4	9.4	9.4	9.5	9.6	9.7	9.8	9.9	10.1	10.4	10.6	10.8	11.0	4.1%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Canada	21.3	21.7	22.0	22.4	22.8	23.2	23.5	23.9	24.2	24.4	24.5	24.5	24.6	2.2%
China	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-5.5%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Vietnam	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Indonesia 5/	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	-0.3%
Total	190.6	192.8	195.1	197.4	199.8	202.1	204.5	206.8	209.2	211.5	213.8	216.2	218.5	1.8%
Metallurgical Coal Exports to America														
Australia	11.7	12.9	13.1	13.4	13.7	14.0	14.3	14.6	15.1	15.6	16.1	16.6	17.1	2.9%
United States	14.9	15.0	15.1	15.3	15.6	15.8	16.0	16.3	16.4	16.3	16.2	16.1	15.9	2.2%
South Africa	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	8.6%
Eurasia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Canada	3.3	2.3	2.3	2.3	2.4	2.5	2.6	2.6	3.0	3.5	4.1	4.7	5.4	1.2%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Indonesia 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	30.6	30.9	31.2	31.9	32.5	33.1	33.7	34.4	35.4	36.4	37.4	38.4	39.5	2.4%

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Metallurgical Coal Exports 7/														
Australia	177.8	181.4	185.0	187.4	189.9	193.5	195.8	198.2	200.8	203.3	205.9	208.5	211.1	1.8%
United States	24.1	24.0	23.8	24.3	24.6	24.0	24.5	25.0	25.1	25.2	25.2	25.2	25.2	-0.3%
South Africa	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	-0.7%
Eurasia 4/	12.5	12.5	12.5	12.9	13.2	13.5	13.9	14.2	14.8	15.5	16.2	16.8	17.5	3.9%
Poland	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	-2.7%
Canada	38.9	38.9	38.9	39.1	39.3	39.6	39.8	40.0	40.4	40.9	41.3	41.8	42.2	1.9%
China	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-6.0%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Vietnam	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Indonesia 5/	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	-0.3%
Total	278.9	282.3	285.7	288.9	292.2	295.5	298.7	301.9	305.7	309.4	313.1	316.8	320.6	1.4%

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ Eurasia consists of Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

5/ In 2006, metallurgical coal exports from Indonesia include an additional 1.5 million short tons of exports from other countries not included in the forecast period.

6/ For 2006, includes 21.3 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.

7/ In 2006, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2006, the balancing item for metallurgical coal amounted to 0.1 million short tons.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 16, No. 1 (London, United Kingdom, June 2007); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Coal Exports to Europe 3/													
Australia	35.7	37.8	27.0	22.7	17.7	15.2	14.9	15.2	17.3	19.7	23.1	25.4	28.7
United States	19.8	22.2	26.4	33.3	37.2	41.3	38.1	34.8	32.0	27.3	19.5	15.4	8.9
South Africa	69.7	69.2	75.1	78.5	77.7	73.8	69.7	66.1	65.8	67.3	69.1	61.6	68.6
Eurasia 4/	45.2	51.9	53.9	55.0	56.3	57.2	60.7	63.9	63.9	64.0	64.0	63.7	63.5
Poland	16.4	12.2	11.6	11.0	10.3	9.7	9.3	8.8	8.2	7.7	7.2	7.0	6.5
Canada	9.5	8.6	20.3	16.7	15.9	14.6	16.1	17.4	16.0	15.7	15.5	15.1	14.7
China	3.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	36.4	37.2	42.1	44.9	48.9	50.3	52.3	54.4	56.6	57.4	59.9	70.0	68.4
Vietnam	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 5/	20.7	31.0	14.2	5.1	0.5	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0
Total	256.7	273.2	270.6	267.1	264.4	262.6	261.6	260.6	259.8	259.0	258.2	258.3	259.4
Total Coal Exports to Asia													
Australia	205.7	207.7	220.5	231.7	243.7	255.7	257.6	260.5	266.8	274.8	283.0	280.4	295.5
United States	5.0	2.0	1.3	1.7	1.7	1.8	1.8	1.9	0.8	0.9	1.0	1.0	1.1
South Africa	4.3	3.1	0.0	0.0	4.6	11.4	16.5	21.2	22.6	22.1	21.3	29.1	21.9
Eurasia 4/	17.1	16.9	23.5	26.2	29.5	31.7	32.0	32.2	32.5	32.8	33.0	33.3	33.6
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	16.4	16.8	11.5	12.3	13.6	14.5	15.5	16.1	18.2	19.2	20.1	20.5	20.9
China	75.4	66.6	63.2	58.3	52.4	48.5	48.3	48.1	47.8	47.6	47.4	47.4	47.4
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	13.9	25.7	21.9	17.6	12.5	9.0	9.9	10.8	11.7	12.6	13.4	17.0	20.5
Indonesia 5/	122.4	167.2	184.1	195.9	202.8	204.9	207.3	209.6	211.4	213.2	215.0	217.5	216.7
Total	460.3	506.0	526.0	543.7	560.9	577.6	589.0	600.4	611.8	623.1	634.3	646.3	657.6
Total Coal Exports to America													
Australia	15.7	16.4	13.2	9.4	9.7	7.6	9.7	10.9	11.0	11.1	11.1	11.3	11.5
United States	25.2	25.5	30.4	31.0	29.7	28.4	27.1	25.7	24.5	23.6	24.8	24.7	26.1
South Africa	1.3	1.2	5.6	5.7	5.9	6.1	6.1	6.2	6.3	6.4	6.5	6.6	7.0
Eurasia 4/	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.1	0.1	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.8
Canada	5.0	4.9	2.5	5.0	4.1	5.4	3.7	2.7	2.9	3.1	3.3	3.3	3.3
China	4.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	32.3	35.3	36.9	40.7	44.6	48.5	49.2	49.8	50.3	52.2	52.3	49.4	58.1
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 5/	4.1	6.5	4.3	4.0	4.6	4.6	4.4	4.7	5.2	5.6	6.0	5.0	7.4
Total	84.0	90.8	93.2	96.1	99.2	101.0	100.7	100.5	100.7	102.6	104.7	100.8	114.2

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total Coal Exports 6/													
Australia	257.6	261.9	260.7	263.8	271.1	278.5	282.2	286.6	295.0	305.5	317.2	317.1	335.6
United States	49.9	49.7	58.1	65.9	68.6	71.5	67.0	62.3	57.2	51.8	45.3	41.2	36.1
South Africa	77.5	76.2	80.6	84.2	88.2	91.2	92.4	93.5	94.7	95.8	96.9	97.2	97.6
Eurasia 4/	62.3	69.5	77.4	81.2	85.8	88.9	92.7	96.2	96.5	96.7	97.0	97.1	97.1
Poland	16.4	12.2	12.0	11.4	10.7	10.3	9.8	9.3	8.8	8.3	7.8	7.6	7.3
Canada	31.0	30.4	34.3	34.0	33.6	34.5	35.4	36.2	37.1	38.0	38.9	38.9	38.9
China	79.0	69.7	63.2	58.3	52.4	48.5	48.3	48.1	47.8	47.6	47.4	47.4	47.4
South America	68.8	72.6	79.0	85.6	93.5	98.8	101.5	104.2	106.9	109.6	112.3	119.4	126.5
Vietnam	14.1	25.9	21.9	17.6	12.5	9.0	9.9	10.8	11.7	12.6	13.4	17.0	20.5
Indonesia 5/	147.6	204.9	202.5	205.0	208.0	210.0	212.2	214.4	216.6	218.8	221.0	222.5	224.1
Total	804.2	873.1	889.7	907.0	924.5	941.2	951.3	961.5	972.3	984.7	997.3	1005.4	1031.2

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Coal Exports to Europe 3/														
Australia	32.3	31.4	32.2	32.4	32.7	34.1	34.3	34.4	34.6	34.8	35.0	35.2	35.4	-0.3%
United States	9.5	9.2	8.7	9.0	9.1	8.2	8.5	8.7	8.7	8.8	8.8	8.8	8.8	-3.8%
South Africa	80.5	77.0	73.5	72.8	71.1	69.6	68.1	68.0	67.6	67.2	66.8	66.6	66.3	-0.2%
Eurasia 4/	63.3	63.1	62.9	62.8	62.6	62.5	62.3	62.2	62.3	62.4	62.5	62.7	62.8	0.8%
Poland	6.0	5.7	5.5	5.1	4.8	4.4	4.0	3.6	3.6	3.6	3.7	3.6	3.7	-4.9%
Canada	14.3	15.0	14.6	14.4	14.1	13.9	13.7	13.5	13.3	13.0	12.8	12.5	12.2	1.4%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South America	54.4	58.9	62.9	62.9	63.9	64.8	65.6	65.1	64.6	64.1	63.7	63.2	62.7	2.2%
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Indonesia 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	260.3	260.3	260.3	259.4	258.3	257.4	256.4	255.4	254.7	254.0	253.3	252.6	251.9	-0.3%
Total Coal Exports to Asia														
Australia	318.1	320.1	322.5	325.2	328.5	331.7	335.0	339.0	342.8	346.5	348.2	354.7	355.9	2.3%
United States	0.9	0.9	0.8	1.0	0.6	0.6	0.6	1.0	0.9	0.6	0.6	0.7	0.8	-3.5%
South Africa	9.9	13.5	17.1	18.7	21.2	23.5	25.9	26.8	27.7	28.5	29.6	30.2	31.2	10.1%
Eurasia 4/	33.9	34.2	34.4	34.8	35.3	35.7	36.1	36.5	37.1	37.8	38.5	39.1	39.8	3.6%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Canada	21.3	21.7	22.0	22.4	22.8	23.2	23.5	23.9	24.2	24.4	24.5	24.5	24.6	1.6%
China	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	-1.4%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Vietnam	24.0	27.6	31.1	32.9	34.6	36.4	38.1	39.9	39.9	39.9	39.9	39.9	39.9	1.9%
Indonesia 5/	212.9	214.9	216.6	218.1	218.4	218.6	218.8	219.3	221.3	223.7	227.9	227.1	231.8	1.4%
Total	668.4	680.2	692.0	700.5	708.8	717.1	725.4	733.8	741.3	748.8	756.6	763.7	771.5	1.8%
Total Coal Exports to America														
Australia	11.7	13.2	13.3	13.6	13.9	14.2	14.4	14.7	15.2	15.7	16.2	17.9	18.6	0.5%
United States	23.9	24.4	24.7	25.0	25.2	25.4	25.6	25.8	26.0	26.2	26.4	25.0	24.9	-0.1%
South Africa	7.5	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.9	9.0	8.6%
Eurasia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Poland	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.4	1.3	12.3%
Canada	3.3	2.3	2.3	2.3	2.4	2.5	2.6	2.6	3.0	3.5	4.1	4.7	5.4	0.4%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
South America	79.2	81.9	84.9	87.2	88.3	89.7	91.1	93.8	98.8	103.8	108.8	113.8	118.8	5.2%
Vietnam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Indonesia 5/	12.7	12.3	12.1	12.2	13.4	14.8	16.1	17.1	16.7	15.8	13.1	15.5	12.3	2.7%
Total	139.4	142.8	146.4	149.4	152.6	156.0	159.5	163.9	169.6	175.1	178.5	187.3	190.3	3.1%

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total Coal Exports 6/														
Australia	362.1	364.7	368.1	371.2	375.1	380.0	383.7	388.1	392.6	397.0	399.4	407.9	410.0	1.9%
United States	34.3	34.5	34.2	34.9	34.9	34.2	34.7	35.5	35.6	35.6	35.8	34.5	34.6	-1.5%
South Africa	97.9	98.2	98.5	99.5	100.4	101.3	102.3	103.2	103.8	104.4	105.0	105.7	106.4	1.4%
Eurasia 4/	97.2	97.3	97.3	97.6	97.9	98.1	98.4	98.6	99.4	100.2	101.0	101.8	102.6	1.6%
Poland	7.1	6.9	6.6	6.3	6.0	5.6	5.3	5.0	5.0	5.0	5.0	5.0	5.0	-3.7%
Canada	38.9	38.9	38.9	39.1	39.3	39.6	39.8	40.0	40.4	40.9	41.3	41.8	42.2	1.4%
China	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	-1.6%
South America	133.6	140.8	147.9	150.1	152.3	154.5	156.7	158.9	163.4	167.9	172.5	177.0	181.5	3.9%
Vietnam	24.0	27.6	31.1	32.9	34.6	36.4	38.1	39.9	39.9	39.9	39.9	39.9	39.9	1.8%
Indonesia 5/	225.6	227.2	228.7	230.3	231.8	233.4	234.9	236.4	238.0	239.5	241.1	242.6	244.2	0.7%
Total	1068.1	1083.3	1098.7	1109.2	1119.6	1130.5	1141.2	1153.0	1165.6	1177.8	1188.3	1203.6	1213.7	1.4%

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/ (million short tons)

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ Eurasia consists of Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

5/ In 2006, exports from Indonesia include an additional 4.9 million short tons of exports from other countries not included in the forecast period.

6/ In 2006, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2006, the balancing item amounted to 3.2 million short tons.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2006 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 16, No. 1 (London, United Kingdom, June 2007); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2006, DOE/EIA-0121(2006/4Q) (Washington, DC, March 2007). Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 116. Indicators of Macroeconomic Activity

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Value of Shipments, National (billion 2000 \$)													
Total Industrial	5732	5821	5781	5680	5782	5997	6223	6364	6455	6540	6659	6783	6874
Total Nonmanufacturing	1525	1531	1446	1352	1349	1419	1497	1535	1554	1565	1583	1603	1607
Coal Mining	22	22	22	22	22	22	22	23	23	22	22	23	23
Oil and Gas Extraction	175	178	183	184	190	194	193	194	195	196	198	199	199
Total Manufacturing	4208	4290	4334	4329	4432	4577	4727	4829	4900	4975	5076	5179	5267
Petroleum Refineries	221	226	232	232	227	233	236	239	240	242	243	242	242
Paper Products	154	151	147	147	147	151	153	155	155	156	157	158	159
Chemicals	505	519	522	535	551	574	589	599	610	623	637	652	668
Stone, Clay, and Glass	100	97	93	90	93	100	105	108	110	112	114	116	117
Primary Metals	148	148	145	142	145	148	153	156	158	160	164	167	169
Iron and Steel Mills and Products	73	73	70	68	69	71	74	75	76	76	78	80	81
Alumina and Aluminum Products	30	29	27	28	27	27	28	29	30	31	32	32	32
Fabricated Metals	252	258	261	257	261	269	277	282	284	285	288	290	292
Machinery	283	300	304	306	318	324	329	338	345	352	360	368	375
Computers and Electronics	469	505	526	553	600	625	646	672	703	740	783	827	870
Transportation Equipment	668	664	657	643	673	700	749	769	765	758	763	770	768
Other Manufacturing	1408	1421	1449	1425	1418	1455	1489	1512	1530	1547	1568	1589	1606
Employment (million)													
Total Industrial	25.21	25.55	25.27	24.67	24.45	24.86	25.56	26.05	26.13	26.14	26.22	26.38	26.48
Total Nonmanufacturing	10.98	11.35	11.18	10.79	10.54	10.69	11.12	11.47	11.65	11.76	11.85	11.98	12.08
Coal Mining	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Oil and Gas Extraction	0.35	0.40	0.43	0.43	0.45	0.44	0.43	0.41	0.39	0.37	0.36	0.35	0.34
Total Manufacturing	14.23	14.20	14.09	13.88	13.91	14.17	14.44	14.58	14.48	14.38	14.37	14.41	14.40
Petroleum Refineries	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06
Paper Products	0.48	0.47	0.46	0.45	0.44	0.44	0.44	0.45	0.44	0.44	0.44	0.43	0.43
Chemicals	0.87	0.87	0.88	0.89	0.91	0.92	0.93	0.93	0.92	0.92	0.92	0.91	0.91
Stone, Clay, and Glass	0.51	0.51	0.49	0.46	0.47	0.48	0.50	0.51	0.51	0.51	0.51	0.51	0.51
Primary Metals	0.47	0.46	0.45	0.42	0.41	0.41	0.41	0.42	0.41	0.41	0.41	0.41	0.41
Iron and Steel Mills and Products	0.16	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12
Alumina and Aluminum Products	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Fabricated Metals	1.52	1.55	1.58	1.54	1.55	1.60	1.66	1.72	1.72	1.73	1.74	1.77	1.77
Machinery	1.16	1.19	1.22	1.24	1.27	1.31	1.32	1.34	1.33	1.33	1.34	1.35	1.36
Computers and Electronics	1.32	1.32	1.30	1.29	1.29	1.30	1.26	1.23	1.20	1.19	1.18	1.18	1.19
Transportation Equipment	1.77	1.76	1.73	1.73	1.74	1.77	1.85	1.88	1.84	1.77	1.72	1.68	1.65
Other Manufacturing	6.06	6.00	5.91	5.79	5.78	5.87	5.99	6.06	6.04	6.03	6.06	6.09	6.12

Table 116. Indicators of Macroeconomic Activity

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Real Disposable Income by Census Division (billion 2000 dollars)													
New England	445	454	466	476	490	507	524	540	555	569	585	600	615
Middle Atlantic	1210	1231	1263	1288	1326	1369	1415	1456	1494	1532	1572	1612	1651
East North Central	1250	1285	1322	1347	1387	1434	1482	1526	1566	1606	1648	1690	1730
West North Central	540	556	573	584	602	623	644	664	682	700	719	739	757
South Atlantic	1529	1573	1623	1664	1723	1791	1862	1928	1991	2054	2120	2188	2255
East South Central	423	435	448	457	470	487	504	519	534	548	563	578	593
West South Central	864	918	958	981	1013	1053	1094	1133	1169	1204	1242	1280	1318
Mountain	527	552	572	587	609	634	660	684	708	731	756	781	806
Pacific	1361	1393	1434	1468	1518	1575	1634	1689	1741	1793	1849	1904	1959
United States	8148	8397	8657	8852	9138	9472	9819	10141	10440	10738	11055	11374	11684
Nonfarm Employment by Census Division (millions)													
New England	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Middle Atlantic	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
East North Central	4.4	4.4	4.3	4.2	4.2	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.5
West North Central	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9
South Atlantic	3.8	3.9	3.8	3.7	3.6	3.7	3.8	3.9	4.0	4.0	4.0	4.1	4.1
East South Central	1.6	1.6	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
West South Central	2.4	2.5	2.5	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
Mountain	1.4	1.5	1.5	1.4	1.4	1.4	1.5	1.6	1.6	1.6	1.6	1.7	1.7
Pacific	3.3	3.3	3.3	3.2	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.4
United States	22.1	22.5	22.3	21.6	21.3	21.7	22.4	22.9	22.9	22.9	23.0	23.2	23.3

Table 116. Indicators of Macroeconomic Activity

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Value of Shipments, National (billion 2000 \$)														
Total Industrial	6961	7033	7113	7196	7273	7357	7446	7546	7645	7737	7816	7898	7997	1.3%
Total Nonmanufacturing	1612	1614	1619	1625	1632	1635	1646	1663	1681	1692	1694	1700	1715	0.5%
Coal Mining	23	23	23	24	24	24	24	25	25	25	26	26	26	0.7%
Oil and Gas Extraction	199	198	199	200	200	198	197	196	196	195	193	191	190	0.3%
Total Manufacturing	5349	5419	5493	5570	5642	5722	5800	5883	5964	6045	6122	6198	6283	1.6%
Petroleum Refineries	242	241	241	240	239	239	239	240	241	243	244	245	247	0.4%
Paper Products	161	163	165	166	168	170	171	172	174	175	176	177	178	0.7%
Chemicals	677	682	686	691	695	699	703	707	712	716	719	722	726	1.4%
Stone, Clay, and Glass	120	123	126	129	131	132	133	134	134	134	134	133	131	1.3%
Primary Metals	172	174	177	179	180	181	182	183	183	184	183	182	181	0.8%
Iron and Steel Mills and Products	82	83	84	85	86	87	87	87	87	87	86	86	84	0.6%
Alumina and Aluminum Products	33	33	34	34	34	34	34	34	35	35	35	35	35	0.8%
Fabricated Metals	293	294	294	294	294	294	294	293	293	293	293	292	291	0.5%
Machinery	380	386	390	393	397	401	404	408	412	416	421	424	429	1.5%
Computers and Electronics	907	939	975	1013	1053	1093	1132	1173	1213	1256	1300	1346	1391	4.3%
Transportation Equipment	769	771	776	784	787	799	808	818	825	828	830	832	840	1.0%
Other Manufacturing	1627	1645	1663	1681	1697	1715	1734	1755	1777	1800	1822	1844	1870	1.1%
Employment (million)														
Total Industrial	26.42	26.19	25.91	25.67	25.46	25.26	25.13	25.02	24.95	24.89	24.83	24.75	24.75	-0.1%
Total Nonmanufacturing	12.12	12.10	12.08	12.09	12.15	12.23	12.33	12.48	12.67	12.87	13.08	13.29	13.53	0.7%
Coal Mining	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.5%
Oil and Gas Extraction	0.33	0.32	0.32	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.26	-1.7%
Total Manufacturing	14.30	14.09	13.83	13.58	13.31	13.04	12.80	12.54	12.28	12.02	11.75	11.47	11.22	-1.0%
Petroleum Refineries	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-2.7%
Paper Products	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.37	0.36	-1.1%
Chemicals	0.90	0.89	0.87	0.86	0.85	0.85	0.84	0.82	0.81	0.80	0.79	0.78	0.77	-0.5%
Stone, Clay, and Glass	0.51	0.51	0.52	0.52	0.51	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.42	-0.8%
Primary Metals	0.41	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.34	0.33	0.32	0.30	0.29	-2.0%
Iron and Steel Mills and Products	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	-2.3%
Alumina and Aluminum Products	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	-1.3%
Fabricated Metals	1.74	1.71	1.67	1.63	1.59	1.54	1.50	1.45	1.41	1.37	1.33	1.28	1.23	-1.0%
Machinery	1.34	1.31	1.28	1.24	1.21	1.18	1.14	1.10	1.07	1.03	1.00	0.96	0.93	-1.0%
Computers and Electronics	1.18	1.16	1.14	1.11	1.09	1.06	1.04	1.03	1.03	1.02	1.02	1.01	1.01	-1.1%
Transportation Equipment	1.61	1.55	1.49	1.43	1.38	1.33	1.29	1.24	1.19	1.13	1.07	1.02	0.98	-2.4%
Other Manufacturing	6.12	6.06	5.98	5.92	5.83	5.74	5.68	5.61	5.53	5.45	5.36	5.27	5.20	-0.6%

Table 116. Indicators of Macroeconomic Activity

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Real Disposable Income by Census Division														
(billion 2000 dollars)														
New England	631	646	662	677	693	708	724	740	756	773	790	808	825	2.5%
Middle Atlantic	1690	1729	1769	1809	1849	1889	1929	1970	2013	2056	2100	2144	2189	2.4%
East North Central	1771	1812	1854	1896	1938	1980	2022	2064	2109	2154	2200	2246	2293	2.4%
West North Central	776	794	814	833	852	871	891	910	931	952	973	995	1016	2.5%
South Atlantic	2323	2393	2465	2537	2610	2685	2761	2838	2919	3002	3088	3174	3263	3.1%
East South Central	608	623	638	653	669	685	700	717	733	751	768	786	804	2.6%
West South Central	1357	1396	1436	1477	1519	1561	1604	1648	1694	1741	1789	1839	1889	3.1%
Mountain	832	858	885	913	941	969	998	1028	1059	1090	1123	1156	1190	3.3%
Pacific	2016	2072	2131	2190	2250	2310	2372	2434	2500	2567	2635	2705	2776	2.9%
United States	12004	12323	12654	12986	13320	13658	14000	14349	14713	15085	15466	15852	16246	2.8%
Nonfarm Employment by Census Division														
(millions)														
New England	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	-0.4%
Middle Atlantic	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	-1.1%
East North Central	4.5	4.4	4.3	4.3	4.2	4.2	4.1	4.1	4.0	4.0	4.0	3.9	3.9	-0.5%
West North Central	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.1%
South Atlantic	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.2	0.3%
East South Central	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1%
West South Central	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	-0.1%
Mountain	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.1	1.4%
Pacific	3.3	3.3	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	-0.4%
United States	23.3	23.0	22.8	22.6	22.4	22.2	22.1	22.1	22.0	22.0	22.0	22.0	22.0	-0.1%

Table 116. Indicators of Macroeconomic Activity

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2005 and 2006: Bureau of Economic Analysis, Bureau of Labor Statistics, and Census Bureau, October 2007; and Global Insight, Global Insight Industry and Employment models, July 2007. Projections: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 117. Imported Liquids by Source (million barrels per day)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Crude Oil													
Canada	1.59	1.59	1.60	1.62	1.52	1.53	1.57	1.61	1.60	1.61	1.60	1.61	1.61
Mexico	1.53	1.48	1.41	1.44	1.35	1.37	1.41	1.43	1.43	1.43	1.40	1.38	1.35
North Sea	0.40	0.41	0.41	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.37
OPEC	5.08	5.13	5.10	5.15	4.80	4.86	4.95	5.04	5.00	4.99	4.96	4.86	4.84
Latin America	1.36	1.41	1.48	1.45	1.37	1.38	1.39	1.40	1.40	1.40	1.39	1.37	1.35
North Africa	0.17	0.18	0.08	0.09	0.09	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.13
West Africa	0.96	0.85	0.80	0.83	0.77	0.78	0.78	0.80	0.79	0.78	0.76	0.75	0.74
Indonesia	0.10	0.10	0.10	0.10	0.09	0.10	0.10	0.09	0.10	0.10	0.08	0.08	0.08
Persian Gulf	2.49	2.58	2.63	2.67	2.47	2.51	2.57	2.64	2.61	2.60	2.60	2.55	2.53
Other Middle East	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Latin America	0.58	0.54	0.51	0.52	0.50	0.50	0.52	0.54	0.55	0.56	0.56	0.55	0.56
Other Africa	0.66	0.69	0.72	0.74	0.68	0.69	0.70	0.72	0.71	0.72	0.72	0.72	0.72
Other Asia	0.23	0.23	0.22	0.23	0.22	0.22	0.23	0.24	0.24	0.23	0.24	0.24	0.24
Total Crude Oil	10.09	10.09	9.97	10.13	9.47	9.60	9.79	9.99	9.94	9.94	9.89	9.76	9.70
Light Refined Products 1/													
Canada	0.52	0.46	0.49	0.49	0.48	0.40	0.37	0.34	0.36	0.35	0.35	0.37	0.37
Northern Europe	0.35	0.31	0.33	0.35	0.33	0.28	0.26	0.24	0.25	0.24	0.24	0.25	0.26
Southern Europe	0.12	0.12	0.12	0.12	0.12	0.10	0.10	0.09	0.10	0.10	0.09	0.10	0.10
OPEC	0.37	0.34	0.34	0.38	0.37	0.32	0.33	0.32	0.33	0.34	0.35	0.39	0.39
Latin America	0.17	0.16	0.16	0.17	0.17	0.15	0.15	0.14	0.14	0.15	0.16	0.17	0.17
North Africa	0.05	0.05	0.04	0.04	0.05	0.04	0.05	0.05	0.05	0.04	0.05	0.05	0.05
West Africa	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.06	0.06	0.06
Indonesia	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Persian Gulf	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.10	0.10
Caribbean Basin	0.37	0.34	0.37	0.39	0.37	0.31	0.30	0.28	0.29	0.28	0.28	0.30	0.31
Asian Exporters	0.16	0.14	0.15	0.15	0.16	0.14	0.14	0.13	0.14	0.13	0.13	0.14	0.14
Other	0.19	0.17	0.18	0.19	0.19	0.17	0.17	0.16	0.16	0.17	0.16	0.17	0.17
Total Light Refined Products	2.08	1.87	1.99	2.08	2.01	1.73	1.67	1.56	1.63	1.60	1.60	1.72	1.74
Heavy Refined Products 2/													
Canada	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.08	0.07	0.08
Northern Europe	0.25	0.22	0.25	0.20	0.17	0.16	0.15	0.16	0.15	0.16	0.15	0.16	0.14
Southern Europe	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.03	0.02	0.02	0.01	0.02
OPEC	0.48	0.43	0.42	0.37	0.42	0.42	0.41	0.42	0.41	0.44	0.44	0.45	0.44
Latin America	0.16	0.14	0.11	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.10	0.09	0.09
North Africa	0.25	0.23	0.24	0.22	0.22	0.23	0.22	0.23	0.22	0.22	0.22	0.24	0.23
West Africa	0.02	0.02	0.01	0.02	0.03	0.03	0.03	0.02	0.03	0.04	0.04	0.04	0.04
Indonesia	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Persian Gulf	0.04	0.03	0.03	0.02	0.03	0.05	0.05	0.04	0.05	0.06	0.06	0.05	0.07
Caribbean Basin	0.33	0.31	0.29	0.23	0.22	0.23	0.23	0.25	0.22	0.21	0.20	0.20	0.18
Asian Exporters	0.14	0.13	0.10	0.09	0.09	0.11	0.11	0.12	0.10	0.11	0.11	0.11	0.11
Other	0.20	0.18	0.20	0.17	0.17	0.16	0.14	0.15	0.15	0.16	0.15	0.15	0.16
Total Heavy Refined Products	1.52	1.38	1.34	1.16	1.15	1.16	1.13	1.15	1.13	1.16	1.14	1.15	1.14

Table 117. Imported Liquids by Source (million barrels per day)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Crude Oil														
Canada	1.62	1.65	1.68	1.73	1.76	1.79	1.81	1.85	1.90	1.99	2.05	2.12	2.19	1.3%
Mexico	1.34	1.34	1.35	1.35	1.35	1.34	1.34	1.35	1.36	1.38	1.42	1.44	1.47	-0.1%
North Sea	0.36	0.35	0.35	0.34	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.33	0.34	-0.7%
OPEC	4.80	4.79	4.79	4.78	4.77	4.78	4.79	4.77	4.78	4.84	4.91	4.96	5.02	-0.1%
Latin America	1.36	1.35	1.36	1.36	1.35	1.36	1.37	1.37	1.38	1.39	1.42	1.44	1.46	0.1%
North Africa	0.13	0.12	0.12	0.11	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	-0.8%
West Africa	0.74	0.74	0.73	0.72	0.72	0.73	0.74	0.74	0.73	0.74	0.76	0.78	0.79	-0.3%
Indonesia	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-0.4%
Persian Gulf	2.49	2.49	2.49	2.49	2.48	2.47	2.46	2.45	2.46	2.48	2.51	2.51	2.55	-0.1%
Other Middle East	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	3.1%
Other Latin America	0.55	0.56	0.56	0.58	0.58	0.60	0.62	0.66	0.67	0.68	0.70	0.72	0.75	1.3%
Other Africa	0.72	0.73	0.73	0.74	0.75	0.76	0.78	0.80	0.81	0.83	0.85	0.87	0.89	1.0%
Other Asia	0.25	0.25	0.26	0.27	0.27	0.28	0.30	0.30	0.31	0.31	0.32	0.32	0.33	1.5%
Total Crude Oil	9.68	9.70	9.75	9.81	9.86	9.92	10.01	10.11	10.19	10.40	10.62	10.80	11.03	0.4%
Light Refined Products 1/														
Canada	0.35	0.35	0.33	0.32	0.31	0.33	0.33	0.33	0.32	0.31	0.32	0.32	0.32	-1.5%
Northern Europe	0.25	0.25	0.23	0.23	0.22	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	-1.3%
Southern Europe	0.11	0.11	0.11	0.11	0.10	0.11	0.11	0.10	0.11	0.10	0.11	0.11	0.11	-0.4%
OPEC	0.39	0.40	0.41	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.40	0.42	0.41	0.9%
Latin America	0.17	0.17	0.17	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.3%
North Africa	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.3%
West Africa	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.3%
Indonesia	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.00	-5.4%
Persian Gulf	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	3.4%
Caribbean Basin	0.29	0.29	0.29	0.28	0.27	0.28	0.28	0.28	0.28	0.27	0.27	0.28	0.27	-1.0%
Asian Exporters	0.14	0.14	0.14	0.14	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Other	0.17	0.17	0.16	0.16	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	-0.4%
Total Light Refined Products	1.70	1.71	1.67	1.63	1.57	1.63	1.64	1.64	1.64	1.60	1.61	1.64	1.62	-0.6%
Heavy Refined Products 2/														
Canada	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.3%
Northern Europe	0.15	0.15	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.15	0.15	0.15	0.15	-1.6%
Southern Europe	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-1.8%
OPEC	0.44	0.45	0.44	0.44	0.43	0.44	0.44	0.44	0.44	0.46	0.46	0.47	0.47	0.4%
Latin America	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	-0.6%
North Africa	0.23	0.22	0.22	0.22	0.22	0.21	0.22	0.22	0.21	0.21	0.20	0.21	0.20	-0.5%
West Africa	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.1%
Indonesia	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	2.8%
Persian Gulf	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.07	0.08	0.09	0.09	0.10	4.4%
Caribbean Basin	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18	-2.2%
Asian Exporters	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.10	0.10	0.10	0.11	-0.8%
Other	0.16	0.16	0.16	0.15	0.16	0.13	0.13	0.12	0.12	0.12	0.13	0.12	0.13	-1.5%
Total Heavy Refined Products	1.14	1.14	1.13	1.12	1.10	1.09	1.06	1.07	1.07	1.11	1.12	1.11	1.14	-0.8%

Table 117. Imported Liquids by Source (million barrels per day)

1/ Includes gasoline, gasoline blending components, jet fuel, distillate fuel oil, liquefied petroleum gases, and kerosene.

2/ Includes residual fuel oil, unfinished oils, and other refined products.

OPEC = Organization of Petroleum Exporting Countries - Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Caribbean Basin = Bahama Islands, Colombia, Ecuador, Guatemala, Jamaica, Mexico, Netherlands Antilles, Panama, Puerto Rico, Trinidad and Tobago, and the Virgin Islands.

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.