

Table 1. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	0.349	0.344	0.362	0.371	0.371	0.372	0.370	0.369	0.366	0.364	0.362	0.360	0.357
Kerosene	0.031	0.017	0.023	0.031	0.031	0.031	0.030	0.030	0.030	0.030	0.029	0.029	0.029
Liquefied Petroleum Gas	0.032	0.032	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.033	0.034	0.034	0.034
Petroleum Subtotal	0.412	0.393	0.417	0.434	0.434	0.435	0.433	0.432	0.429	0.427	0.425	0.423	0.419
Natural Gas	0.181	0.182	0.199	0.197	0.197	0.200	0.202	0.204	0.205	0.207	0.208	0.209	0.209
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/	0.026	0.024	0.028	0.026	0.026	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Electricity	0.147	0.153	0.157	0.158	0.161	0.164	0.167	0.169	0.170	0.172	0.173	0.175	0.175
Delivered Energy	0.766	0.753	0.800	0.814	0.818	0.824	0.827	0.831	0.829	0.830	0.830	0.832	0.829
Electricity Related Losses	0.269	0.273	0.333	0.295	0.299	0.301	0.304	0.313	0.316	0.315	0.317	0.324	0.325
Total	1.034	1.026	1.133	1.109	1.117	1.125	1.131	1.144	1.145	1.145	1.148	1.156	1.154
Commercial													
Distillate Fuel	0.080	0.079	0.096	0.093	0.094	0.096	0.097	0.097	0.097	0.097	0.097	0.098	0.098
Residual Fuel	0.015	0.013	0.018	0.021	0.021	0.022	0.021	0.021	0.021	0.022	0.022	0.022	0.022
Kerosene	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Liquefied Petroleum Gas	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
Motor Gasoline 2/	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
Petroleum Subtotal	0.109	0.105	0.129	0.128	0.130	0.131	0.132	0.132	0.132	0.133	0.133	0.133	0.133
Natural Gas	0.152	0.143	0.150	0.145	0.148	0.153	0.156	0.158	0.161	0.163	0.165	0.166	0.167
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/	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Electricity	0.176	0.176	0.177	0.181	0.188	0.194	0.199	0.204	0.208	0.212	0.215	0.219	0.222
Delivered Energy	0.448	0.435	0.466	0.464	0.476	0.488	0.497	0.504	0.511	0.518	0.524	0.529	0.533
Electricity Related Losses	0.322	0.315	0.377	0.337	0.348	0.355	0.363	0.377	0.385	0.388	0.395	0.406	0.412
Total	0.770	0.750	0.843	0.801	0.824	0.843	0.860	0.882	0.896	0.906	0.919	0.934	0.945
Industrial 4/													
Distillate Fuel	0.026	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.026
Liquefied Petroleum Gas	0.003	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Petrochemical Feedstocks	0.046	0.048	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.052	0.053	0.053	0.054
Residual Fuel	0.026	0.041	0.042	0.041	0.041	0.040	0.040	0.039	0.039	0.038	0.038	0.039	0.039
Motor Gasoline 2/	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
Other Petroleum 5/	0.051	0.042	0.043	0.040	0.040	0.040	0.039	0.039	0.037	0.037	0.038	0.038	0.038
Petroleum Subtotal	0.157	0.163	0.167	0.163	0.164	0.163	0.163	0.162	0.159	0.160	0.162	0.164	0.166
Natural Gas	0.141	0.143	0.143	0.151	0.157	0.161	0.164	0.166	0.170	0.173	0.175	0.178	0.180
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	0.141	0.143	0.143	0.151	0.157	0.161	0.164	0.166	0.170	0.173	0.175	0.178	0.180
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
Steam 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
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	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Renewable Energy 7/	0.097	0.098	0.098	0.102	0.106	0.109	0.111	0.113	0.115	0.118	0.121	0.124	0.127
Electricity	0.079	0.079	0.077	0.079	0.081	0.083	0.084	0.085	0.086	0.087	0.089	0.090	0.091
Delivered Energy	0.481	0.489	0.491	0.501	0.514	0.521	0.527	0.532	0.536	0.545	0.553	0.561	0.571
Electricity Related Losses	0.144	0.141	0.164	0.147	0.151	0.151	0.153	0.157	0.159	0.160	0.162	0.166	0.169
Total	0.625	0.630	0.655	0.649	0.665	0.673	0.680	0.689	0.695	0.704	0.715	0.728	0.740
Transportation													
Distillate Fuel 8/	0.154	0.149	0.149	0.155	0.160	0.165	0.169	0.173	0.177	0.182	0.187	0.191	0.195

Table 1. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.075	0.073	0.072	0.074	0.075	0.077	0.079	0.080	0.081	0.083	0.084	0.086	0.087
Motor Gasoline 2/	0.782	0.803	0.822	0.849	0.872	0.890	0.904	0.918	0.931	0.943	0.955	0.968	0.982
Residual Fuel	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
Liquefied Petroleum Gas	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
Other Petroleum 10/	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009
Petroleum Subtotal	1.021	1.036	1.054	1.089	1.120	1.145	1.165	1.183	1.202	1.221	1.239	1.258	1.277
Pipeline Fuel Natural Gas	0.008	0.008	0.007	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009
Compressed Natural Gas	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005
Renewable Energy (E85) 11/	0.000	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
Electricity	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
Delivered Energy	1.033	1.049	1.066	1.103	1.135	1.159	1.180	1.199	1.218	1.238	1.257	1.276	1.296
Electricity Related Losses	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
Total	1.040	1.055	1.074	1.110	1.142	1.167	1.187	1.207	1.226	1.246	1.265	1.285	1.304
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.609	0.595	0.632	0.642	0.650	0.657	0.661	0.664	0.664	0.668	0.671	0.674	0.675
Kerosene	0.035	0.020	0.027	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.034
Jet Fuel 9/	0.075	0.073	0.072	0.074	0.075	0.077	0.079	0.080	0.081	0.083	0.084	0.086	0.087
Liquefied Petroleum Gas	0.041	0.041	0.040	0.041	0.042	0.042	0.043	0.044	0.044	0.044	0.045	0.045	0.046
Motor Gasoline 2/	0.793	0.815	0.833	0.861	0.884	0.902	0.916	0.929	0.942	0.955	0.967	0.980	0.994
Petrochemical Feedstocks	0.046	0.048	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.052	0.053	0.053	0.054
Residual Fuel	0.043	0.055	0.062	0.064	0.064	0.063	0.063	0.062	0.061	0.062	0.062	0.062	0.062
Other Petroleum 12/	0.057	0.049	0.050	0.047	0.047	0.046	0.045	0.045	0.043	0.043	0.044	0.044	0.044
Petroleum Subtotal	1.699	1.697	1.766	1.813	1.848	1.874	1.893	1.910	1.923	1.941	1.959	1.979	1.996
Natural Gas	0.475	0.470	0.493	0.495	0.505	0.516	0.524	0.532	0.540	0.547	0.553	0.558	0.562
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	0.008	0.008	0.007	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009
Natural Gas Subtotal	0.483	0.478	0.500	0.503	0.513	0.524	0.532	0.540	0.548	0.555	0.561	0.567	0.570
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
Steam Coal	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
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	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Renewable Energy 13/	0.133	0.132	0.135	0.137	0.141	0.144	0.146	0.147	0.149	0.152	0.155	0.158	0.162
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
Electricity	0.405	0.412	0.415	0.422	0.434	0.444	0.454	0.462	0.468	0.475	0.481	0.488	0.493
Delivered Energy	2.728	2.725	2.823	2.884	2.943	2.993	3.031	3.066	3.095	3.131	3.164	3.198	3.229
Electricity Related Losses	0.741	0.736	0.882	0.786	0.805	0.815	0.828	0.855	0.868	0.870	0.882	0.904	0.915
Total	3.469	3.462	3.705	3.670	3.748	3.808	3.859	3.921	3.963	4.001	4.046	4.102	4.143
Electric Generators 14/													
Distillate Fuel	0.026	0.007	0.004	0.007	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.013	0.032
Residual Fuel	0.132	0.097	0.363	0.078	0.140	0.126	0.142	0.163	0.174	0.176	0.185	0.197	0.212
Petroleum Subtotal	0.158	0.104	0.368	0.085	0.146	0.132	0.148	0.170	0.181	0.184	0.192	0.210	0.245
Natural Gas	0.276	0.332	0.186	0.379	0.337	0.368	0.369	0.379	0.382	0.383	0.388	0.400	0.381
Steam Coal	0.192	0.192	0.207	0.205	0.211	0.215	0.220	0.219	0.219	0.219	0.219	0.219	0.219
Nuclear Power	0.351	0.353	0.351	0.355	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
Renewable Energy/Other 15/	0.138	0.146	0.148	0.157	0.159	0.160	0.162	0.166	0.170	0.173	0.177	0.177	0.178
Electricity Imports	0.032	0.020	0.037	0.028	0.030	0.027	0.026	0.026	0.027	0.029	0.030	0.029	0.029
Total	1.147	1.148	1.297	1.209	1.239	1.259	1.282	1.317	1.336	1.345	1.364	1.391	1.408
Total Energy Consumption													
Distillate Fuel	0.636	0.602	0.637	0.649	0.656	0.663	0.667	0.671	0.672	0.675	0.678	0.687	0.708

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New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.035	0.020	0.027	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.034
Jet Fuel 9/	0.075	0.073	0.072	0.074	0.075	0.077	0.079	0.080	0.081	0.083	0.084	0.086	0.087
Liquefied Petroleum Gas	0.041	0.041	0.040	0.041	0.042	0.042	0.043	0.044	0.044	0.044	0.045	0.045	0.046
Motor Gasoline 2/	0.793	0.815	0.833	0.861	0.884	0.902	0.916	0.929	0.942	0.955	0.967	0.980	0.994
Petrochemical Feedstocks	0.046	0.048	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.052	0.053	0.053	0.054
Residual Fuel	0.175	0.153	0.425	0.142	0.204	0.190	0.204	0.225	0.235	0.238	0.246	0.259	0.275
Other Petroleum 12/	0.057	0.049	0.050	0.047	0.047	0.046	0.045	0.045	0.043	0.043	0.044	0.044	0.044
Petroleum Subtotal	1.858	1.802	2.134	1.898	1.993	2.006	2.041	2.080	2.104	2.125	2.151	2.188	2.241
Natural Gas	0.751	0.801	0.679	0.873	0.842	0.884	0.893	0.911	0.922	0.930	0.941	0.958	0.942
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	0.008	0.008	0.007	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009
Natural Gas Subtotal	0.759	0.809	0.685	0.882	0.850	0.892	0.901	0.919	0.930	0.939	0.950	0.966	0.951
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
Steam Coal	0.199	0.199	0.214	0.212	0.218	0.222	0.227	0.227	0.226	0.226	0.226	0.226	0.226
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	0.199	0.199	0.214	0.212	0.218	0.222	0.227	0.227	0.226	0.226	0.226	0.226	0.226
Nuclear Power	0.351	0.353	0.351	0.355	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
Renewable Energy 16/	0.270	0.278	0.284	0.294	0.300	0.304	0.308	0.313	0.319	0.326	0.332	0.335	0.339
Electricity Imports	0.032	0.020	0.037	0.028	0.030	0.027	0.026	0.026	0.027	0.029	0.030	0.029	0.029
Total	3.469	3.462	3.705	3.670	3.748	3.808	3.859	3.921	3.963	4.001	4.046	4.102	4.143
Energy Use & Related Statistics													
Delivered Energy Use	2.728	2.725	2.823	2.884	2.943	2.993	3.031	3.066	3.095	3.131	3.164	3.198	3.229
Total Energy Use	3.469	3.462	3.705	3.670	3.748	3.808	3.859	3.921	3.963	4.001	4.046	4.102	4.143
Population (millions)	14.051	14.159	14.253	14.324	14.388	14.451	14.513	14.573	14.633	14.692	14.750	14.809	14.868

Table 1. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2020-2025
Energy Consumption													
Residential													
Distillate Fuel	0.354	0.351	0.349	0.346	0.343	0.340	0.338	0.335	0.332	0.330	0.328	0.325	-0.2%
Kerosene	0.028	0.028	0.027	0.026	0.025	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.3%
Liquefied Petroleum Gas	0.034	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.037	0.037	0.037	0.038	0.6%
Petroleum Subtotal	0.416	0.413	0.411	0.407	0.403	0.400	0.398	0.394	0.391	0.387	0.385	0.381	-0.1%
Natural Gas	0.210	0.211	0.212	0.213	0.215	0.217	0.219	0.220	0.222	0.224	0.226	0.228	1.0%
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	-0.2%
Renewable Energy 1/	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.0%
Electricity	0.177	0.179	0.181	0.182	0.184	0.186	0.188	0.190	0.192	0.194	0.197	0.198	1.1%
Delivered Energy	0.828	0.827	0.829	0.827	0.827	0.827	0.830	0.828	0.829	0.829	0.832	0.831	0.4%
Electricity Related Losses	0.328	0.323	0.327	0.330	0.329	0.329	0.322	0.325	0.324	0.325	0.330	0.331	0.8%
Total	1.156	1.151	1.156	1.156	1.156	1.157	1.152	1.153	1.153	1.155	1.163	1.162	0.5%
Commercial													
Distillate Fuel	0.098	0.098	0.097	0.098	0.097	0.097	0.097	0.097	0.097	0.098	0.098	0.098	0.9%
Residual Fuel	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	2.5%
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	1.4%
Liquefied Petroleum Gas	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.5%
Motor Gasoline 2/	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%
Petroleum Subtotal	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.135	0.135	1.1%
Natural Gas	0.168	0.169	0.170	0.172	0.174	0.176	0.178	0.180	0.182	0.184	0.186	0.189	1.2%
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	0.2%
Renewable Energy 3/	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.0%
Electricity	0.226	0.229	0.232	0.236	0.240	0.244	0.248	0.252	0.256	0.260	0.264	0.269	1.8%
Delivered Energy	0.537	0.542	0.547	0.552	0.558	0.564	0.570	0.576	0.582	0.589	0.596	0.603	1.4%
Electricity Related Losses	0.419	0.415	0.421	0.427	0.429	0.432	0.423	0.431	0.432	0.436	0.444	0.449	1.5%
Total	0.956	0.957	0.968	0.979	0.986	0.996	0.993	1.007	1.014	1.025	1.039	1.052	1.5%
Industrial 4/													
Distillate Fuel	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.029	0.029	0.8%
Liquefied Petroleum Gas	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.9%
Petrochemical Feedstocks	0.054	0.055	0.056	0.057	0.057	0.058	0.059	0.059	0.059	0.060	0.060	0.061	1.0%
Residual Fuel	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	-0.3%
Motor Gasoline 2/	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%
Other Petroleum 5/	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.040	-0.1%
Petroleum Subtotal	0.167	0.168	0.169	0.171	0.172	0.173	0.174	0.175	0.176	0.177	0.178	0.179	0.4%
Natural Gas	0.183	0.185	0.189	0.193	0.198	0.202	0.206	0.210	0.214	0.219	0.224	0.230	2.1%
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	N/A
Natural Gas Subtotal	0.183	0.185	0.189	0.193	0.198	0.202	0.206	0.210	0.214	0.219	0.224	0.230	2.1%
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	N/A
Steam 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	-0.2%
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	N/A
Coal Subtotal	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	-0.2%
Renewable Energy 7/	0.130	0.132	0.135	0.137	0.140	0.142	0.143	0.145	0.146	0.148	0.149	0.151	1.9%
Electricity	0.092	0.094	0.095	0.096	0.097	0.098	0.099	0.100	0.101	0.102	0.104	0.105	1.3%
Delivered Energy	0.578	0.585	0.593	0.603	0.613	0.620	0.628	0.635	0.644	0.652	0.661	0.670	1.4%
Electricity Related Losses	0.171	0.169	0.172	0.174	0.174	0.174	0.169	0.171	0.171	0.172	0.174	0.176	1.0%
Total	0.749	0.755	0.765	0.777	0.787	0.794	0.798	0.806	0.815	0.824	0.835	0.846	1.3%
Transportation													
Distillate Fuel 8/	0.199	0.203	0.206	0.210	0.214	0.217	0.221	0.225	0.229	0.233	0.238	0.243	2.2%

Table 1. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.088	0.089	0.090	0.091	0.092	0.093	0.094	0.094	0.095	0.096	0.096	0.096	1.2%
Motor Gasoline 2/	0.992	1.001	1.009	1.018	1.027	1.035	1.045	1.055	1.067	1.079	1.092	1.107	1.4%
Residual Fuel	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%
Liquefied Petroleum Gas	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	7.1%
Other Petroleum 10/	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.5%
Petroleum Subtotal	1.293	1.306	1.319	1.333	1.347	1.360	1.374	1.389	1.405	1.423	1.442	1.462	1.5%
Pipeline Fuel Natural Gas	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.7%
Compressed Natural Gas	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	9.9%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.3%
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	N/A
Electricity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1.7%
Delivered Energy	1.312	1.325	1.338	1.352	1.367	1.380	1.395	1.410	1.427	1.445	1.464	1.485	1.5%
Electricity Related Losses	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.4%
Total	1.320	1.334	1.347	1.361	1.375	1.389	1.403	1.419	1.435	1.454	1.473	1.494	1.5%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.677	0.678	0.680	0.680	0.681	0.682	0.684	0.684	0.687	0.689	0.693	0.695	0.7%
Kerosene	0.033	0.033	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.7%
Jet Fuel 9/	0.088	0.089	0.090	0.091	0.092	0.093	0.094	0.094	0.095	0.096	0.096	0.096	1.2%
Liquefied Petroleum Gas	0.046	0.046	0.047	0.047	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.051	0.9%
Motor Gasoline 2/	1.004	1.013	1.021	1.030	1.039	1.048	1.057	1.068	1.079	1.091	1.105	1.120	1.4%
Petrochemical Feedstocks	0.054	0.055	0.056	0.057	0.057	0.058	0.059	0.059	0.059	0.060	0.060	0.061	1.0%
Residual Fuel	0.062	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.6%
Other Petroleum 12/	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.048	-0.1%
Petroleum Subtotal	2.010	2.021	2.033	2.044	2.056	2.067	2.080	2.091	2.106	2.121	2.139	2.157	1.0%
Natural Gas	0.566	0.571	0.578	0.585	0.593	0.601	0.611	0.617	0.625	0.634	0.644	0.654	1.4%
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	N/A
Pipeline Natural Gas	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.7%
Natural Gas Subtotal	0.574	0.580	0.586	0.592	0.601	0.610	0.619	0.626	0.634	0.643	0.653	0.663	1.4%
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	N/A
Steam Coal	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%
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	N/A
Coal Subtotal	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%
Renewable Energy 13/	0.164	0.166	0.169	0.171	0.174	0.175	0.177	0.179	0.180	0.182	0.183	0.185	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	N/A
Electricity	0.499	0.506	0.513	0.519	0.526	0.533	0.540	0.547	0.554	0.562	0.570	0.577	1.5%
Delivered Energy	3.255	3.280	3.308	3.334	3.364	3.392	3.424	3.450	3.481	3.515	3.552	3.589	1.2%
Electricity Related Losses	0.927	0.916	0.929	0.940	0.941	0.944	0.922	0.935	0.936	0.942	0.957	0.965	1.2%
Total	4.181	4.196	4.236	4.273	4.305	4.336	4.346	4.385	4.417	4.457	4.510	4.554	1.2%
Electric Generators 14/													
Distillate Fuel	0.049	0.049	0.049	0.056	0.040	0.025	0.007	0.007	0.017	0.007	0.007	0.006	-0.2%
Residual Fuel	0.233	0.221	0.231	0.235	0.221	0.211	0.197	0.204	0.201	0.189	0.189	0.172	2.5%
Petroleum Subtotal	0.281	0.269	0.280	0.290	0.261	0.236	0.205	0.211	0.218	0.195	0.196	0.179	2.4%
Natural Gas	0.363	0.367	0.376	0.383	0.417	0.449	0.465	0.476	0.476	0.506	0.508	0.511	1.9%
Steam Coal	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.251	1.2%
Nuclear Power	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.0%
Renewable Energy/Other 15/	0.178	0.179	0.181	0.184	0.190	0.198	0.198	0.202	0.208	0.216	0.239	0.239	2.2%
Electricity Imports	0.028	0.030	0.028	0.025	0.022	0.019	0.020	0.016	0.012	0.010	0.008	0.007	-4.6%
Total	1.426	1.422	1.441	1.458	1.466	1.477	1.463	1.482	1.490	1.503	1.527	1.543	1.3%
Total Energy Consumption													
Distillate Fuel	0.725	0.727	0.729	0.736	0.722	0.707	0.691	0.692	0.704	0.696	0.700	0.701	0.7%

Table 1. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2022-2025
Kerosene	0.033	0.033	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.7%
Jet Fuel 9/	0.088	0.089	0.090	0.091	0.092	0.093	0.094	0.094	0.095	0.096	0.096	0.096	1.2%
Liquefied Petroleum Gas	0.046	0.046	0.047	0.047	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.051	0.9%
Motor Gasoline 2/	1.004	1.013	1.021	1.030	1.039	1.048	1.057	1.068	1.079	1.091	1.105	1.120	1.4%
Petrochemical Feedstocks	0.054	0.055	0.056	0.057	0.057	0.058	0.059	0.059	0.059	0.060	0.060	0.061	1.0%
Residual Fuel	0.295	0.283	0.294	0.297	0.283	0.274	0.260	0.267	0.263	0.251	0.252	0.235	1.9%
Other Petroleum 12/	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.048	-0.1%
Petroleum Subtotal	2.291	2.290	2.314	2.335	2.317	2.303	2.284	2.303	2.324	2.317	2.335	2.336	1.1%
Natural Gas	0.929	0.938	0.954	0.968	1.010	1.050	1.075	1.094	1.101	1.140	1.152	1.165	1.6%
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	N/A
Pipeline Natural Gas	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.7%
Natural Gas Subtotal	0.937	0.947	0.962	0.975	1.018	1.058	1.084	1.103	1.110	1.149	1.162	1.174	1.6%
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	N/A
Steam Coal	0.227	0.226	0.226	0.227	0.226	0.227	0.226	0.226	0.226	0.226	0.226	0.258	1.1%
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	N/A
Coal Subtotal	0.227	0.226	0.226	0.227	0.226	0.227	0.226	0.226	0.226	0.226	0.226	0.258	1.1%
Nuclear Power	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.0%
Renewable Energy 16/	0.342	0.346	0.350	0.356	0.364	0.373	0.375	0.381	0.388	0.398	0.422	0.423	1.8%
Electricity Imports	0.028	0.030	0.028	0.025	0.022	0.019	0.020	0.016	0.012	0.010	0.008	0.007	-4.6%
Total	4.181	4.196	4.236	4.273	4.305	4.336	4.346	4.385	4.417	4.457	4.510	4.554	1.2%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	3.255	3.280	3.308	3.334	3.364	3.392	3.424	3.450	3.481	3.515	3.552	3.589	1.2%
Total Energy Use	4.181	4.196	4.236	4.273	4.305	4.336	4.346	4.385	4.417	4.457	4.510	4.554	1.2%
Population (millions)	14.925	14.981	15.037	15.093	15.148	15.203	15.258	15.314	15.370	15.428	15.485	15.543	0.4%

Table 1. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
New England

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	0.389	0.382	0.401	0.413	0.412	0.413	0.411	0.410	0.405	0.403	0.400	0.398	0.394
Kerosene	0.027	0.016	0.022	0.029	0.029	0.029	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Liquefied Petroleum Gas	0.036	0.038	0.037	0.038	0.038	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.043
Petroleum Subtotal	0.452	0.436	0.460	0.479	0.479	0.480	0.479	0.478	0.474	0.472	0.470	0.469	0.465
Natural Gas	0.849	0.849	0.912	0.894	0.890	0.895	0.896	0.898	0.896	0.896	0.894	0.893	0.885
Coal	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
Renewable Energy 1/	0.065	0.074	0.083	0.077	0.077	0.076	0.075	0.074	0.073	0.072	0.072	0.071	0.070
Electricity	0.394	0.418	0.421	0.427	0.431	0.437	0.443	0.450	0.452	0.454	0.455	0.457	0.457
Delivered Energy	1.763	1.780	1.880	1.880	1.880	1.892	1.897	1.903	1.898	1.898	1.894	1.893	1.880
Electricity Related Losses	0.982	1.037	1.017	1.033	1.027	1.035	1.048	1.055	1.054	1.066	1.063	1.066	1.067
Total	2.745	2.818	2.897	2.914	2.908	2.926	2.945	2.959	2.952	2.963	2.957	2.959	2.947
Commercial													
Distillate Fuel	0.154	0.151	0.178	0.170	0.174	0.177	0.180	0.181	0.182	0.183	0.184	0.185	0.186
Residual Fuel	0.063	0.060	0.085	0.096	0.095	0.095	0.095	0.094	0.094	0.095	0.096	0.096	0.096
Kerosene	0.012	0.007	0.009	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Liquefied Petroleum Gas	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007
Motor Gasoline 2/	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
Petroleum Subtotal	0.240	0.228	0.282	0.286	0.289	0.292	0.294	0.295	0.296	0.299	0.300	0.302	0.302
Natural Gas	0.732	0.687	0.704	0.662	0.677	0.695	0.706	0.713	0.722	0.734	0.742	0.748	0.751
Coal	0.015	0.015	0.015	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
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
Electricity	0.521	0.530	0.525	0.545	0.565	0.584	0.599	0.612	0.622	0.634	0.644	0.653	0.662
Delivered Energy	1.532	1.484	1.550	1.531	1.570	1.611	1.638	1.659	1.680	1.705	1.725	1.741	1.755
Electricity Related Losses	1.298	1.313	1.266	1.318	1.346	1.380	1.414	1.436	1.452	1.488	1.505	1.525	1.546
Total	2.830	2.798	2.817	2.850	2.915	2.991	3.053	3.095	3.132	3.193	3.230	3.266	3.301
Industrial 4/													
Distillate Fuel	0.069	0.063	0.064	0.062	0.061	0.061	0.061	0.061	0.061	0.062	0.063	0.064	0.065
Liquefied Petroleum Gas	0.029	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.031	0.031
Petrochemical Feedstocks	0.131	0.138	0.143	0.144	0.146	0.147	0.149	0.150	0.148	0.150	0.152	0.154	0.156
Residual Fuel	0.024	0.023	0.024	0.024	0.022	0.023	0.023	0.023	0.023	0.022	0.023	0.023	0.023
Motor Gasoline 2/	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Other Petroleum 5/	0.428	0.408	0.407	0.396	0.378	0.376	0.377	0.377	0.373	0.374	0.380	0.387	0.394
Petroleum Subtotal	0.690	0.672	0.676	0.663	0.646	0.645	0.648	0.650	0.645	0.648	0.658	0.668	0.680
Natural Gas	0.382	0.389	0.389	0.412	0.457	0.467	0.475	0.481	0.491	0.498	0.503	0.507	0.511
Lease and Plant Fuel 6/	0.007	0.006	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005
Natural Gas Subtotal	0.389	0.396	0.392	0.414	0.459	0.470	0.478	0.485	0.495	0.502	0.507	0.512	0.516
Metallurgical Coal	0.199	0.172	0.190	0.193	0.191	0.189	0.187	0.185	0.185	0.182	0.179	0.176	0.173
Steam Coal	0.135	0.135	0.129	0.128	0.129	0.129	0.129	0.128	0.128	0.128	0.129	0.129	0.129
Net Coal Coke Imports	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Coal Subtotal	0.335	0.309	0.320	0.323	0.322	0.320	0.318	0.316	0.315	0.313	0.310	0.307	0.304
Renewable Energy 7/	0.152	0.153	0.153	0.159	0.165	0.169	0.171	0.173	0.176	0.180	0.184	0.189	0.193
Electricity	0.262	0.262	0.256	0.263	0.268	0.273	0.277	0.280	0.284	0.288	0.293	0.297	0.301
Delivered Energy	1.828	1.791	1.798	1.822	1.860	1.877	1.893	1.905	1.916	1.932	1.952	1.972	1.994
Electricity Related Losses	0.652	0.648	0.618	0.636	0.639	0.645	0.655	0.658	0.663	0.677	0.684	0.693	0.704
Total	2.479	2.440	2.416	2.458	2.498	2.522	2.548	2.563	2.579	2.608	2.636	2.665	2.698
Transportation													
Distillate Fuel 8/	0.480	0.463	0.465	0.482	0.499	0.514	0.526	0.538	0.550	0.563	0.577	0.590	0.603



Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.345	0.336	0.322	0.329	0.338	0.348	0.355	0.363	0.370	0.377	0.383	0.391	0.397
Motor Gasoline 2/	1.810	1.860	1.888	1.943	1.985	2.019	2.046	2.072	2.098	2.123	2.146	2.172	2.199
Residual Fuel	0.140	0.119	0.129	0.129	0.129	0.128	0.128	0.127	0.127	0.126	0.126	0.125	0.125
Liquefied Petroleum Gas	0.002	0.002	0.003	0.003	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008
Other Petroleum 10/	0.020	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Petroleum Subtotal	2.796	2.805	2.832	2.910	2.982	3.039	3.086	3.132	3.176	3.222	3.265	3.311	3.357
Pipeline Fuel Natural Gas	0.043	0.044	0.046	0.045	0.045	0.044	0.044	0.045	0.046	0.047	0.047	0.048	0.048
Compressed Natural Gas	0.002	0.002	0.003	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.008	0.009	0.009
Renewable Energy (E85) 11/	0.000	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
Electricity	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012
Delivered Energy	2.850	2.861	2.892	2.971	3.042	3.100	3.147	3.195	3.241	3.289	3.332	3.380	3.427
Electricity Related Losses	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.029
Total	2.876	2.887	2.918	2.997	3.068	3.126	3.174	3.222	3.268	3.317	3.360	3.409	3.456
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.092	1.059	1.108	1.126	1.146	1.165	1.178	1.190	1.198	1.211	1.224	1.237	1.247
Kerosene	0.042	0.025	0.033	0.042	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.043	0.043
Jet Fuel 9/	0.345	0.336	0.322	0.329	0.338	0.348	0.355	0.363	0.370	0.377	0.383	0.391	0.397
Liquefied Petroleum Gas	0.073	0.076	0.075	0.076	0.078	0.080	0.081	0.083	0.084	0.085	0.086	0.088	0.089
Motor Gasoline 2/	1.824	1.873	1.902	1.956	1.999	2.033	2.060	2.086	2.112	2.137	2.161	2.187	2.214
Petrochemical Feedstocks	0.131	0.138	0.143	0.144	0.146	0.147	0.149	0.150	0.148	0.150	0.152	0.154	0.156
Residual Fuel	0.227	0.202	0.238	0.248	0.246	0.246	0.245	0.244	0.244	0.244	0.244	0.244	0.244
Other Petroleum 12/	0.445	0.432	0.430	0.417	0.399	0.397	0.397	0.398	0.393	0.394	0.400	0.407	0.415
Petroleum Subtotal	4.178	4.142	4.250	4.339	4.395	4.457	4.508	4.555	4.591	4.642	4.693	4.750	4.804
Natural Gas	1.964	1.928	2.008	1.971	2.028	2.063	2.082	2.098	2.116	2.135	2.147	2.156	2.157
Lease and Plant Fuel 6/	0.007	0.006	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005
Pipeline Natural Gas	0.043	0.044	0.046	0.045	0.045	0.044	0.044	0.045	0.046	0.047	0.047	0.048	0.048
Natural Gas Subtotal	2.014	1.978	2.058	2.019	2.076	2.109	2.130	2.147	2.165	2.186	2.199	2.209	2.210
Metallurgical Coal	0.199	0.172	0.190	0.193	0.191	0.189	0.187	0.185	0.185	0.182	0.179	0.176	0.173
Steam Coal	0.153	0.153	0.147	0.145	0.147	0.147	0.147	0.147	0.146	0.146	0.147	0.147	0.147
Net Coal Coke Imports	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Coal Subtotal	0.353	0.327	0.339	0.340	0.340	0.338	0.336	0.334	0.333	0.331	0.328	0.325	0.322
Renewable Energy 13/	0.242	0.251	0.261	0.261	0.266	0.269	0.271	0.272	0.274	0.278	0.281	0.284	0.288
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
Electricity	1.187	1.220	1.213	1.245	1.276	1.305	1.331	1.354	1.370	1.387	1.403	1.419	1.432
Delivered Energy	7.974	7.918	8.121	8.204	8.352	8.479	8.575	8.662	8.734	8.824	8.904	8.987	9.056
Electricity Related Losses	2.957	3.025	2.926	3.014	3.038	3.087	3.144	3.176	3.196	3.258	3.280	3.312	3.346
Total	10.931	10.942	11.047	11.218	11.390	11.565	11.719	11.838	11.931	12.081	12.183	12.299	12.402
Electric Generators 14/													
Distillate Fuel	0.028	0.012	0.014	0.008	0.008	0.009	0.010	0.010	0.011	0.012	0.013	0.017	0.019
Residual Fuel	0.206	0.158	0.116	0.087	0.119	0.110	0.111	0.115	0.112	0.113	0.119	0.124	0.126
Petroleum Subtotal	0.235	0.170	0.130	0.095	0.127	0.119	0.121	0.125	0.123	0.125	0.132	0.141	0.146
Natural Gas	0.520	0.580	0.562	0.644	0.614	0.632	0.649	0.683	0.698	0.761	0.784	0.823	0.864
Steam Coal	1.489	1.557	1.503	1.508	1.534	1.590	1.651	1.665	1.684	1.692	1.697	1.697	1.701
Nuclear Power	1.519	1.535	1.475	1.552	1.560	1.570	1.571	1.572	1.575	1.576	1.576	1.576	1.576
Renewable Energy/Other 15/	0.355	0.367	0.403	0.410	0.424	0.432	0.436	0.438	0.438	0.439	0.439	0.440	0.438
Electricity Imports	0.026	0.037	0.067	0.050	0.054	0.048	0.047	0.047	0.048	0.052	0.054	0.052	0.052
Total	4.144	4.245	4.140	4.259	4.314	4.391	4.475	4.530	4.566	4.645	4.683	4.730	4.778
Total Energy Consumption													
Distillate Fuel	1.121	1.070	1.121	1.135	1.155	1.174	1.188	1.200	1.209	1.223	1.237	1.254	1.267

Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.042	0.025	0.033	0.042	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.043	0.043
Jet Fuel 9/	0.345	0.336	0.322	0.329	0.338	0.348	0.355	0.363	0.370	0.377	0.383	0.391	0.397
Liquefied Petroleum Gas	0.073	0.076	0.075	0.076	0.078	0.080	0.081	0.083	0.084	0.085	0.086	0.088	0.089
Motor Gasoline 2/	1.824	1.873	1.902	1.956	1.999	2.033	2.060	2.086	2.112	2.137	2.161	2.187	2.214
Petrochemical Feedstocks	0.131	0.138	0.143	0.144	0.146	0.147	0.149	0.150	0.148	0.150	0.152	0.154	0.156
Residual Fuel	0.433	0.361	0.354	0.335	0.364	0.356	0.356	0.359	0.355	0.357	0.362	0.368	0.370
Other Petroleum 12/	0.445	0.432	0.430	0.417	0.399	0.397	0.397	0.398	0.393	0.394	0.400	0.407	0.415
Petroleum Subtotal	4.413	4.312	4.380	4.434	4.522	4.576	4.628	4.680	4.714	4.767	4.825	4.891	4.950
Natural Gas	2.484	2.508	2.571	2.616	2.642	2.694	2.732	2.781	2.813	2.897	2.931	2.979	3.021
Lease and Plant Fuel 6/	0.007	0.006	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005
Pipeline Natural Gas	0.043	0.044	0.046	0.045	0.045	0.044	0.044	0.045	0.046	0.047	0.047	0.048	0.048
Natural Gas Subtotal	2.534	2.558	2.620	2.664	2.690	2.741	2.779	2.830	2.863	2.948	2.983	3.032	3.074
Metallurgical Coal	0.199	0.172	0.190	0.193	0.191	0.189	0.187	0.185	0.185	0.182	0.179	0.176	0.173
Steam Coal	1.642	1.710	1.650	1.654	1.681	1.738	1.798	1.811	1.830	1.838	1.844	1.844	1.848
Net Coal Coke Imports	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Coal Subtotal	1.842	1.883	1.842	1.848	1.874	1.929	1.987	1.999	2.018	2.022	2.025	2.022	2.023
Nuclear Power	1.519	1.535	1.475	1.552	1.560	1.570	1.571	1.572	1.575	1.576	1.576	1.576	1.576
Renewable Energy 16/	0.597	0.618	0.663	0.671	0.690	0.701	0.707	0.710	0.713	0.717	0.720	0.725	0.726
Electricity Imports	0.026	0.037	0.067	0.050	0.054	0.048	0.047	0.047	0.048	0.052	0.054	0.052	0.052
Total	10.931	10.942	11.047	11.218	11.390	11.565	11.719	11.838	11.931	12.081	12.183	12.299	12.402
Energy Use & Related Statistics													
Delivered Energy Use	7.974	7.918	8.121	8.204	8.352	8.479	8.575	8.662	8.734	8.824	8.904	8.987	9.056
Total Energy Use	10.931	10.942	11.047	11.218	11.390	11.565	11.719	11.838	11.931	12.081	12.183	12.299	12.402
Population (millions)	39.603	39.759	39.877	39.965	40.048	40.126	40.200	40.270	40.336	40.399	40.460	40.522	40.584

Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	0.391	0.387	0.385	0.380	0.377	0.373	0.371	0.367	0.364	0.360	0.358	0.354	-0.3%
Kerosene	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.026	2.0%
Liquefied Petroleum Gas	0.043	0.044	0.044	0.045	0.045	0.046	0.046	0.046	0.047	0.047	0.048	0.048	1.1%
Petroleum Subtotal	0.462	0.458	0.456	0.452	0.449	0.446	0.444	0.439	0.437	0.434	0.432	0.428	-0.1%
Natural Gas	0.881	0.877	0.878	0.875	0.875	0.875	0.878	0.874	0.874	0.874	0.876	0.873	0.1%
Coal	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	-0.2%
Renewable Energy 1/	0.069	0.069	0.068	0.067	0.066	0.066	0.065	0.064	0.063	0.063	0.062	0.061	-0.8%
Electricity	0.458	0.461	0.464	0.466	0.469	0.473	0.477	0.478	0.481	0.485	0.490	0.492	0.7%
Delivered Energy	1.874	1.869	1.870	1.863	1.863	1.863	1.867	1.859	1.858	1.858	1.863	1.858	0.2%
Electricity Related Losses	1.063	1.076	1.089	1.099	1.112	1.121	1.137	1.142	1.147	1.155	1.176	1.190	0.6%
Total	2.937	2.945	2.959	2.962	2.974	2.984	3.004	3.002	3.005	3.014	3.039	3.047	0.3%
Commercial													
Distillate Fuel	0.186	0.186	0.186	0.186	0.185	0.184	0.184	0.184	0.184	0.183	0.183	0.183	0.8%
Residual Fuel	0.096	0.096	0.096	0.096	0.095	0.095	0.095	0.096	0.096	0.096	0.096	0.096	2.1%
Kerosene	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	1.3%
Liquefied Petroleum Gas	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.4%
Motor Gasoline 2/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.2%
Petroleum Subtotal	0.303	0.303	0.303	0.302	0.301	0.300	0.300	0.300	0.300	0.300	0.300	0.299	1.2%
Natural Gas	0.754	0.754	0.754	0.751	0.749	0.747	0.747	0.750	0.752	0.756	0.758	0.759	0.4%
Coal	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.0%
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	0.0%
Electricity	0.670	0.675	0.679	0.680	0.681	0.682	0.685	0.691	0.696	0.702	0.707	0.709	1.3%
Delivered Energy	1.765	1.771	1.774	1.773	1.769	1.768	1.772	1.780	1.786	1.797	1.804	1.806	0.9%
Electricity Related Losses	1.553	1.576	1.591	1.604	1.614	1.619	1.634	1.651	1.658	1.672	1.697	1.716	1.2%
Total	3.317	3.347	3.365	3.377	3.383	3.387	3.406	3.431	3.445	3.469	3.502	3.523	1.0%
Industrial 4/													
Distillate Fuel	0.066	0.067	0.067	0.068	0.068	0.069	0.069	0.070	0.071	0.071	0.072	0.073	0.7%
Liquefied Petroleum Gas	0.032	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.038	0.039	1.1%
Petrochemical Feedstocks	0.156	0.158	0.160	0.163	0.165	0.167	0.169	0.170	0.171	0.173	0.174	0.175	1.0%
Residual Fuel	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.0%
Motor Gasoline 2/	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.7%
Other Petroleum 5/	0.399	0.400	0.402	0.402	0.406	0.409	0.410	0.413	0.417	0.418	0.417	0.421	0.1%
Petroleum Subtotal	0.687	0.690	0.695	0.699	0.706	0.712	0.716	0.720	0.728	0.732	0.736	0.742	0.4%
Natural Gas	0.515	0.523	0.532	0.544	0.556	0.564	0.575	0.583	0.593	0.606	0.617	0.630	2.1%
Lease and Plant Fuel 6/	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	-0.9%
Natural Gas Subtotal	0.520	0.528	0.537	0.549	0.561	0.569	0.580	0.588	0.598	0.611	0.622	0.635	2.1%
Metallurgical Coal	0.169	0.166	0.163	0.160	0.157	0.154	0.151	0.148	0.145	0.143	0.140	0.137	-1.0%
Steam Coal	0.130	0.129	0.129	0.130	0.130	0.130	0.130	0.129	0.129	0.130	0.130	0.130	-0.2%
Net Coal Coke Imports	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	2.6%
Coal Subtotal	0.301	0.298	0.295	0.292	0.289	0.286	0.283	0.280	0.277	0.275	0.272	0.270	-0.6%
Renewable Energy 7/	0.197	0.200	0.203	0.207	0.210	0.213	0.216	0.218	0.221	0.225	0.228	0.231	1.8%
Electricity	0.305	0.309	0.313	0.317	0.321	0.324	0.327	0.330	0.334	0.338	0.342	0.347	1.2%
Delivered Energy	2.010	2.025	2.043	2.064	2.088	2.104	2.122	2.137	2.159	2.180	2.200	2.225	0.9%
Electricity Related Losses	0.708	0.721	0.734	0.748	0.762	0.769	0.781	0.789	0.797	0.805	0.821	0.839	1.1%
Total	2.718	2.746	2.776	2.811	2.850	2.873	2.903	2.925	2.955	2.985	3.020	3.064	1.0%
Transportation													
Distillate Fuel 8/	0.613	0.623	0.633	0.643	0.653	0.662	0.671	0.680	0.691	0.703	0.716	0.730	2.0%

Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.404	0.408	0.411	0.416	0.420	0.424	0.427	0.429	0.431	0.433	0.434	0.434	1.1%
Motor Gasoline 2/	2.218	2.234	2.250	2.264	2.279	2.294	2.309	2.327	2.347	2.369	2.394	2.421	1.2%
Residual Fuel	0.124	0.124	0.123	0.123	0.122	0.122	0.121	0.121	0.120	0.120	0.119	0.119	0.0%
Liquefied Petroleum Gas	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	6.7%
Other Petroleum 10/	0.025	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.028	0.028	0.4%
Petroleum Subtotal	3.394	3.423	3.451	3.480	3.510	3.537	3.565	3.594	3.627	3.663	3.701	3.743	1.3%
Pipeline Fuel Natural Gas	0.048	0.048	0.046	0.046	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.3%
Compressed Natural Gas	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	8.1%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.0%
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	N/A
Electricity	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	1.4%
Delivered Energy	3.464	3.494	3.521	3.551	3.581	3.609	3.638	3.668	3.700	3.736	3.775	3.818	1.3%
Electricity Related Losses	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.035	1.3%
Total	3.493	3.524	3.551	3.581	3.612	3.641	3.670	3.700	3.733	3.770	3.810	3.853	1.3%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.256	1.263	1.271	1.277	1.283	1.288	1.295	1.301	1.309	1.319	1.330	1.340	1.0%
Kerosene	0.043	0.042	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.041	0.041	0.041	2.1%
Jet Fuel 9/	0.404	0.408	0.411	0.416	0.420	0.424	0.427	0.429	0.431	0.433	0.434	0.434	1.1%
Liquefied Petroleum Gas	0.090	0.091	0.092	0.093	0.094	0.095	0.096	0.097	0.098	0.099	0.103	0.104	1.4%
Motor Gasoline 2/	2.233	2.249	2.264	2.279	2.294	2.309	2.324	2.343	2.363	2.385	2.409	2.437	1.2%
Petrochemical Feedstocks	0.156	0.158	0.160	0.163	0.165	0.167	0.169	0.170	0.171	0.173	0.174	0.175	1.0%
Residual Fuel	0.243	0.243	0.242	0.241	0.241	0.240	0.240	0.240	0.239	0.239	0.239	0.238	0.7%
Other Petroleum 12/	0.420	0.421	0.422	0.423	0.428	0.430	0.432	0.435	0.439	0.441	0.440	0.444	0.1%
Petroleum Subtotal	4.845	4.875	4.905	4.934	4.966	4.995	5.024	5.054	5.092	5.128	5.168	5.212	1.0%
Natural Gas	2.159	2.164	2.174	2.181	2.190	2.197	2.212	2.218	2.230	2.247	2.263	2.274	0.7%
Lease and Plant Fuel 6/	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	-0.9%
Pipeline Natural Gas	0.048	0.048	0.046	0.046	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.3%
Natural Gas Subtotal	2.212	2.217	2.226	2.232	2.242	2.250	2.265	2.271	2.282	2.299	2.315	2.327	0.7%
Metallurgical Coal	0.169	0.166	0.163	0.160	0.157	0.154	0.151	0.148	0.145	0.143	0.140	0.137	-1.0%
Steam Coal	0.147	0.147	0.147	0.147	0.148	0.147	0.147	0.147	0.147	0.147	0.147	0.147	-0.2%
Net Coal Coke Imports	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	2.6%
Coal Subtotal	0.319	0.316	0.312	0.310	0.307	0.304	0.301	0.298	0.295	0.293	0.290	0.288	-0.5%
Renewable Energy 13/	0.291	0.293	0.296	0.299	0.301	0.303	0.306	0.307	0.310	0.312	0.315	0.318	1.0%
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	N/A
Electricity	1.446	1.458	1.469	1.476	1.484	1.492	1.503	1.513	1.525	1.539	1.553	1.563	1.1%
Delivered Energy	9.113	9.159	9.208	9.251	9.302	9.344	9.399	9.444	9.503	9.572	9.642	9.708	0.9%
Electricity Related Losses	3.352	3.403	3.443	3.481	3.519	3.542	3.584	3.615	3.635	3.666	3.728	3.780	1.0%
Total	12.465	12.562	12.651	12.731	12.820	12.886	12.983	13.058	13.139	13.238	13.370	13.488	0.9%
Electric Generators 14/													
Distillate Fuel	0.026	0.040	0.026	0.028	0.024	0.022	0.021	0.023	0.021	0.018	0.021	0.018	2.0%
Residual Fuel	0.129	0.130	0.132	0.132	0.136	0.131	0.137	0.132	0.128	0.129	0.124	0.123	-1.1%
Petroleum Subtotal	0.155	0.170	0.159	0.160	0.159	0.153	0.159	0.154	0.150	0.146	0.145	0.141	-0.8%
Natural Gas	0.877	0.916	0.977	1.001	1.010	1.037	1.050	1.063	1.050	1.055	1.061	1.053	2.6%
Steam Coal	1.702	1.707	1.712	1.716	1.759	1.776	1.805	1.842	1.896	1.942	2.017	2.092	1.3%
Nuclear Power	1.576	1.576	1.576	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.597	0.2%
Renewable Energy/Other 15/	0.438	0.438	0.438	0.438	0.437	0.437	0.440	0.443	0.445	0.446	0.447	0.446	0.9%
Electricity Imports	0.050	0.054	0.050	0.045	0.040	0.034	0.036	0.029	0.022	0.018	0.015	0.013	-4.6%
Total	4.798	4.861	4.912	4.957	5.003	5.034	5.087	5.128	5.160	5.205	5.281	5.343	1.0%
Total Energy Consumption													
Distillate Fuel	1.282	1.303	1.297	1.306	1.307	1.310	1.317	1.323	1.331	1.337	1.351	1.358	1.0%

Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Kerosene	0.043	0.042	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.041	0.041	0.041	2.1%
Jet Fuel 9/	0.404	0.408	0.411	0.416	0.420	0.424	0.427	0.429	0.431	0.433	0.434	0.434	1.1%
Liquefied Petroleum Gas	0.090	0.091	0.092	0.093	0.094	0.095	0.096	0.097	0.098	0.099	0.103	0.104	1.4%
Motor Gasoline 2/	2.233	2.249	2.264	2.279	2.294	2.309	2.324	2.343	2.363	2.385	2.409	2.437	1.2%
Petrochemical Feedstocks	0.156	0.158	0.160	0.163	0.165	0.167	0.169	0.170	0.171	0.173	0.174	0.175	1.0%
Residual Fuel	0.372	0.372	0.374	0.373	0.376	0.371	0.377	0.371	0.368	0.368	0.362	0.361	0.0%
Other Petroleum 12/	0.420	0.421	0.422	0.423	0.428	0.430	0.432	0.435	0.439	0.441	0.440	0.444	0.1%
Petroleum Subtotal	5.000	5.045	5.064	5.094	5.126	5.147	5.183	5.209	5.241	5.275	5.313	5.353	0.9%
Natural Gas	3.036	3.080	3.151	3.182	3.200	3.235	3.263	3.281	3.280	3.302	3.325	3.328	1.2%
Lease and Plant Fuel 6/	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	-0.9%
Pipeline Natural Gas	0.048	0.048	0.046	0.046	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.3%
Natural Gas Subtotal	3.089	3.133	3.203	3.233	3.252	3.287	3.316	3.334	3.332	3.354	3.377	3.380	1.2%
Metallurgical Coal	0.169	0.166	0.163	0.160	0.157	0.154	0.151	0.148	0.145	0.143	0.140	0.137	-1.0%
Steam Coal	1.849	1.854	1.859	1.863	1.907	1.923	1.952	1.989	2.043	2.090	2.164	2.240	1.2%
Net Coal Coke Imports	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	2.6%
Coal Subtotal	2.021	2.022	2.024	2.026	2.067	2.079	2.106	2.139	2.191	2.235	2.307	2.380	1.0%
Nuclear Power	1.576	1.576	1.576	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.597	0.2%
Renewable Energy 16/	0.729	0.731	0.734	0.737	0.739	0.741	0.746	0.750	0.754	0.758	0.761	0.764	0.9%
Electricity Imports	0.050	0.054	0.050	0.045	0.040	0.034	0.036	0.029	0.022	0.018	0.015	0.013	-4.6%
Total	12.465	12.562	12.651	12.731	12.820	12.886	12.983	13.058	13.139	13.238	13.370	13.488	0.9%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	9.113	9.159	9.208	9.251	9.302	9.344	9.399	9.444	9.503	9.572	9.642	9.708	0.9%
Total Energy Use	12.465	12.562	12.651	12.731	12.820	12.886	12.983	13.058	13.139	13.238	13.370	13.488	0.9%
Population (millions)	40.640	40.693	40.744	40.796	40.847	40.898	40.949	41.002	41.058	41.116	41.176	41.237	0.2%

Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Middle Atlantic

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East North Central

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	0.042	0.040	0.041	0.043	0.043	0.043	0.043	0.042	0.042	0.042	0.041	0.041	0.041
Kerosene	0.008	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Liquefied Petroleum Gas	0.092	0.101	0.099	0.099	0.102	0.104	0.105	0.106	0.107	0.108	0.108	0.110	0.110
Petroleum Subtotal	0.142	0.145	0.145	0.149	0.151	0.153	0.155	0.155	0.156	0.156	0.156	0.157	0.157
Natural Gas	1.391	1.454	1.516	1.518	1.519	1.537	1.549	1.562	1.570	1.583	1.590	1.594	1.588
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/	0.060	0.073	0.079	0.076	0.076	0.076	0.076	0.077	0.076	0.076	0.077	0.077	0.077
Electricity	0.584	0.633	0.629	0.646	0.655	0.663	0.673	0.686	0.696	0.707	0.717	0.727	0.734
Delivered Energy	2.179	2.307	2.371	2.391	2.402	2.431	2.455	2.483	2.500	2.525	2.542	2.558	2.558
Electricity Related Losses	1.332	1.400	1.545	1.572	1.581	1.586	1.617	1.675	1.725	1.754	1.794	1.827	1.844
Total	3.511	3.707	3.917	3.963	3.983	4.018	4.072	4.157	4.225	4.280	4.335	4.385	4.402
Commercial													
Distillate Fuel	0.047	0.047	0.058	0.058	0.062	0.064	0.066	0.067	0.069	0.070	0.071	0.072	0.073
Residual Fuel	0.002	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Kerosene	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
Liquefied Petroleum Gas	0.021	0.023	0.022	0.023	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Motor Gasoline 2/	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006	0.006
Petroleum Subtotal	0.078	0.080	0.091	0.092	0.096	0.098	0.100	0.102	0.102	0.104	0.105	0.106	0.107
Natural Gas	0.744	0.721	0.743	0.721	0.731	0.744	0.750	0.751	0.753	0.756	0.755	0.752	0.748
Coal	0.019	0.020	0.019	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Renewable Energy 3/	0.008	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Electricity	0.631	0.645	0.633	0.657	0.673	0.687	0.699	0.707	0.714	0.719	0.725	0.730	0.736
Delivered Energy	1.481	1.478	1.498	1.501	1.531	1.561	1.581	1.591	1.601	1.610	1.616	1.619	1.623
Electricity Related Losses	1.439	1.427	1.553	1.597	1.626	1.645	1.678	1.725	1.768	1.784	1.813	1.833	1.849
Total	2.920	2.905	3.051	3.098	3.157	3.206	3.259	3.317	3.369	3.394	3.429	3.452	3.471
Industrial 4/													
Distillate Fuel	0.179	0.176	0.176	0.171	0.173	0.173	0.173	0.174	0.173	0.175	0.177	0.179	0.182
Liquefied Petroleum Gas	0.083	0.089	0.085	0.086	0.086	0.087	0.089	0.090	0.090	0.091	0.092	0.094	0.095
Petrochemical Feedstocks	0.177	0.187	0.195	0.196	0.200	0.203	0.205	0.207	0.206	0.208	0.211	0.213	0.217
Residual Fuel	0.015	0.016	0.017	0.017	0.027	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Motor Gasoline 2/	0.025	0.026	0.026	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.026
Other Petroleum 5/	0.738	0.671	0.681	0.654	0.702	0.715	0.725	0.729	0.714	0.716	0.714	0.723	0.726
Petroleum Subtotal	1.218	1.165	1.181	1.149	1.213	1.230	1.245	1.253	1.236	1.243	1.248	1.263	1.274
Natural Gas	1.194	1.193	1.185	1.244	1.328	1.344	1.358	1.371	1.396	1.421	1.444	1.454	1.470
Lease and Plant Fuel 6/	0.011	0.010	0.008	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.011	0.011	0.011
Natural Gas Subtotal	1.205	1.204	1.192	1.252	1.335	1.352	1.366	1.380	1.406	1.432	1.455	1.464	1.481
Metallurgical Coal	0.341	0.295	0.325	0.329	0.325	0.321	0.317	0.313	0.312	0.306	0.299	0.293	0.287
Steam Coal	0.366	0.360	0.343	0.341	0.342	0.342	0.341	0.340	0.339	0.340	0.340	0.340	0.341
Net Coal Coke Imports	0.018	0.018	0.013	0.011	0.010	0.007	0.006	0.004	0.003	0.001	0.000	0.000	0.000
Coal Subtotal	0.725	0.673	0.682	0.682	0.677	0.670	0.664	0.658	0.654	0.647	0.640	0.633	0.627
Renewable Energy 7/	0.300	0.304	0.305	0.320	0.334	0.345	0.353	0.361	0.370	0.381	0.392	0.404	0.416
Electricity	0.699	0.728	0.716	0.735	0.756	0.773	0.789	0.802	0.814	0.827	0.841	0.855	0.868
Delivered Energy	4.147	4.074	4.076	4.138	4.315	4.370	4.417	4.453	4.478	4.529	4.575	4.617	4.663
Electricity Related Losses	1.592	1.612	1.758	1.789	1.826	1.850	1.895	1.956	2.015	2.050	2.105	2.146	2.181
Total	5.740	5.686	5.834	5.927	6.141	6.220	6.312	6.409	6.494	6.579	6.680	6.763	6.844
Transportation													
Distillate Fuel 8/	0.871	0.839	0.839	0.867	0.896	0.920	0.941	0.960	0.980	1.004	1.027	1.048	1.070

Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.328	0.320	0.307	0.313	0.322	0.330	0.337	0.344	0.351	0.358	0.364	0.371	0.377
Motor Gasoline 2/	2.588	2.659	2.692	2.768	2.837	2.889	2.929	2.970	3.009	3.047	3.085	3.124	3.164
Residual Fuel	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
Liquefied Petroleum Gas	0.003	0.003	0.004	0.004	0.006	0.007	0.007	0.008	0.009	0.009	0.009	0.010	0.010
Other Petroleum 10/	0.030	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.034	0.034	0.035
Petroleum Subtotal	3.821	3.857	3.878	3.988	4.097	4.182	4.251	4.318	4.384	4.454	4.521	4.589	4.659
Pipeline Fuel Natural Gas	0.060	0.061	0.069	0.067	0.066	0.066	0.066	0.067	0.068	0.070	0.071	0.071	0.072
Compressed Natural Gas	0.002	0.002	0.003	0.004	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010
Renewable Energy (E85) 11/	0.000	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
Electricity	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015
Delivered Energy	3.895	3.932	3.962	4.072	4.181	4.267	4.336	4.406	4.474	4.546	4.615	4.684	4.755
Electricity Related Losses	0.027	0.027	0.030	0.031	0.031	0.031	0.032	0.033	0.034	0.034	0.035	0.036	0.036
Total	3.922	3.959	3.993	4.103	4.212	4.298	4.369	4.439	4.508	4.581	4.650	4.720	4.792
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.138	1.103	1.114	1.139	1.173	1.200	1.223	1.244	1.263	1.290	1.316	1.341	1.366
Kerosene	0.012	0.006	0.007	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012
Jet Fuel 9/	0.328	0.320	0.307	0.313	0.322	0.330	0.337	0.344	0.351	0.358	0.364	0.371	0.377
Liquefied Petroleum Gas	0.200	0.216	0.210	0.213	0.218	0.221	0.224	0.227	0.229	0.231	0.233	0.236	0.238
Motor Gasoline 2/	2.619	2.691	2.725	2.799	2.868	2.921	2.961	3.002	3.041	3.079	3.117	3.156	3.197
Petrochemical Feedstocks	0.177	0.187	0.195	0.196	0.200	0.203	0.205	0.207	0.206	0.208	0.211	0.213	0.217
Residual Fuel	0.020	0.020	0.023	0.023	0.033	0.033	0.033	0.034	0.033	0.033	0.033	0.033	0.034
Other Petroleum 12/	0.766	0.704	0.713	0.685	0.733	0.745	0.755	0.759	0.745	0.747	0.745	0.753	0.757
Petroleum Subtotal	5.259	5.246	5.295	5.378	5.557	5.663	5.750	5.828	5.878	5.958	6.031	6.115	6.197
Natural Gas	3.331	3.371	3.447	3.487	3.582	3.630	3.662	3.691	3.726	3.768	3.797	3.809	3.815
Lease and Plant Fuel 6/	0.011	0.010	0.008	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.011	0.011	0.011
Pipeline Natural Gas	0.060	0.061	0.069	0.067	0.066	0.066	0.066	0.067	0.068	0.070	0.071	0.071	0.072
Natural Gas Subtotal	3.402	3.442	3.523	3.561	3.656	3.704	3.737	3.767	3.804	3.848	3.879	3.891	3.898
Metallurgical Coal	0.341	0.295	0.325	0.329	0.325	0.321	0.317	0.313	0.312	0.306	0.299	0.293	0.287
Steam Coal	0.388	0.382	0.365	0.362	0.363	0.363	0.362	0.361	0.360	0.360	0.361	0.361	0.362
Net Coal Coke Imports	0.018	0.018	0.013	0.011	0.010	0.007	0.006	0.004	0.003	0.001	0.000	0.000	0.000
Coal Subtotal	0.747	0.695	0.703	0.703	0.698	0.692	0.685	0.679	0.675	0.667	0.661	0.654	0.648
Renewable Energy 13/	0.367	0.390	0.397	0.409	0.423	0.434	0.442	0.450	0.459	0.470	0.481	0.494	0.506
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
Electricity	1.926	2.018	1.990	2.051	2.097	2.136	2.174	2.209	2.237	2.267	2.296	2.326	2.353
Delivered Energy	11.702	11.791	11.908	12.102	12.430	12.629	12.789	12.933	13.053	13.210	13.348	13.478	13.599
Electricity Related Losses	4.391	4.466	4.887	4.989	5.064	5.113	5.222	5.389	5.542	5.623	5.746	5.842	5.910
Total	16.092	16.257	16.795	17.091	17.494	17.742	18.011	18.322	18.595	18.833	19.094	19.321	19.508
Electric Generators 14/													
Distillate Fuel	0.010	0.017	0.011	0.010	0.009	0.009	0.009	0.009	0.007	0.007	0.007	0.008	0.008
Residual Fuel	0.026	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001
Petroleum Subtotal	0.037	0.021	0.012	0.011	0.009	0.009	0.009	0.010	0.007	0.007	0.008	0.009	0.009
Natural Gas	0.234	0.309	0.517	0.655	0.638	0.653	0.641	0.709	0.748	0.779	0.849	0.895	0.946
Steam Coal	4.483	4.535	4.747	4.750	4.879	4.945	5.103	5.226	5.370	5.444	5.520	5.596	5.637
Nuclear Power	1.478	1.517	1.501	1.517	1.522	1.528	1.528	1.537	1.537	1.537	1.541	1.541	1.541
Renewable Energy/Other 15/	0.092	0.106	0.104	0.111	0.116	0.118	0.118	0.118	0.119	0.126	0.129	0.131	0.133
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	6.317	6.484	6.877	7.040	7.160	7.249	7.396	7.598	7.779	7.890	8.043	8.168	8.262
Total Energy Consumption													
Distillate Fuel	1.149	1.119	1.125	1.150	1.182	1.209	1.232	1.253	1.270	1.296	1.323	1.348	1.374



Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.012	0.006	0.007	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012
Jet Fuel 9/	0.328	0.320	0.307	0.313	0.322	0.330	0.337	0.344	0.351	0.358	0.364	0.371	0.377
Liquefied Petroleum Gas	0.200	0.216	0.210	0.213	0.218	0.221	0.224	0.227	0.229	0.231	0.233	0.236	0.238
Motor Gasoline 2/	2.619	2.691	2.725	2.799	2.868	2.921	2.961	3.002	3.041	3.079	3.117	3.156	3.197
Petrochemical Feedstocks	0.177	0.187	0.195	0.196	0.200	0.203	0.205	0.207	0.206	0.208	0.211	0.213	0.217
Residual Fuel	0.046	0.024	0.024	0.024	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.035
Other Petroleum 12/	0.766	0.704	0.713	0.685	0.733	0.745	0.755	0.759	0.745	0.747	0.745	0.753	0.757
Petroleum Subtotal	5.296	5.267	5.307	5.389	5.566	5.673	5.760	5.838	5.886	5.965	6.039	6.124	6.207
Natural Gas	3.565	3.680	3.964	4.142	4.220	4.283	4.304	4.400	4.474	4.547	4.646	4.704	4.761
Lease and Plant Fuel 6/	0.011	0.010	0.008	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.011	0.011	0.011
Pipeline Natural Gas	0.060	0.061	0.069	0.067	0.066	0.066	0.066	0.067	0.068	0.070	0.071	0.071	0.072
Natural Gas Subtotal	3.635	3.751	4.040	4.216	4.293	4.357	4.378	4.477	4.552	4.627	4.728	4.786	4.844
Metallurgical Coal	0.341	0.295	0.325	0.329	0.325	0.321	0.317	0.313	0.312	0.306	0.299	0.293	0.287
Steam Coal	4.871	4.917	5.112	5.112	5.242	5.308	5.466	5.587	5.730	5.805	5.881	5.958	5.999
Net Coal Coke Imports	0.018	0.018	0.013	0.011	0.010	0.007	0.006	0.004	0.003	0.001	0.000	0.000	0.000
Coal Subtotal	5.230	5.230	5.450	5.453	5.576	5.637	5.789	5.905	6.045	6.112	6.180	6.251	6.286
Nuclear Power	1.478	1.517	1.501	1.517	1.522	1.528	1.528	1.537	1.537	1.537	1.541	1.541	1.541
Renewable Energy 16/	0.460	0.495	0.502	0.520	0.539	0.551	0.560	0.569	0.578	0.596	0.611	0.625	0.639
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	16.100	16.260	16.800	17.095	17.498	17.746	18.015	18.326	18.599	18.837	19.098	19.326	19.516
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	11.702	11.791	11.908	12.102	12.430	12.629	12.789	12.933	13.053	13.210	13.348	13.478	13.599
Total Energy Use	16.092	16.257	16.795	17.091	17.494	17.742	18.011	18.322	18.595	18.833	19.094	19.321	19.508
Population (millions)	46.154	46.435	46.664	46.860	47.055	47.249	47.432	47.592	47.730	47.862	47.993	48.125	48.258

Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Energy Consumption</b>													
<b>Residential</b>													
Distillate Fuel	0.040	0.040	0.039	0.038	0.038	0.037	0.036	0.036	0.035	0.034	0.034	0.033	-0.9%
Kerosene	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	3.1%
Liquefied Petroleum Gas	0.111	0.112	0.113	0.113	0.114	0.115	0.116	0.116	0.116	0.117	0.118	0.118	0.7%
Petroleum Subtotal	0.158	0.158	0.159	0.158	0.159	0.159	0.159	0.158	0.158	0.158	0.159	0.158	0.4%
Natural Gas	1.587	1.586	1.594	1.594	1.602	1.611	1.622	1.619	1.622	1.627	1.636	1.637	0.5%
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	-0.3%
Renewable Energy 1/	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.3%
Electricity	0.743	0.753	0.763	0.771	0.780	0.791	0.804	0.811	0.822	0.833	0.846	0.854	1.3%
Delivered Energy	2.567	2.576	2.595	2.603	2.621	2.640	2.664	2.668	2.681	2.697	2.720	2.728	0.7%
Electricity Related Losses	1.864	1.887	1.914	1.930	1.928	1.945	1.959	1.931	1.914	1.916	1.928	1.937	1.4%
Total	4.431	4.463	4.509	4.532	4.548	4.585	4.623	4.598	4.595	4.613	4.648	4.665	1.0%
<b>Commercial</b>													
Distillate Fuel	0.074	0.076	0.077	0.078	0.079	0.080	0.081	0.083	0.084	0.086	0.088	0.090	2.8%
Residual Fuel	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	2.5%
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	0.8%
Liquefied Petroleum Gas	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.2%
Motor Gasoline 2/	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.0%
Petroleum Subtotal	0.108	0.110	0.111	0.112	0.113	0.115	0.116	0.117	0.119	0.121	0.123	0.125	2.0%
Natural Gas	0.746	0.745	0.746	0.749	0.754	0.760	0.765	0.769	0.774	0.783	0.793	0.804	0.5%
Coal	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.018	-0.2%
Renewable Energy 3/	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.0%
Electricity	0.743	0.751	0.758	0.766	0.775	0.785	0.795	0.806	0.819	0.834	0.850	0.868	1.3%
Delivered Energy	1.629	1.637	1.647	1.659	1.673	1.690	1.707	1.724	1.744	1.769	1.797	1.829	0.9%
Electricity Related Losses	1.864	1.882	1.899	1.917	1.913	1.929	1.938	1.919	1.909	1.920	1.939	1.969	1.4%
Total	3.493	3.519	3.546	3.576	3.587	3.619	3.645	3.643	3.653	3.689	3.736	3.798	1.2%
<b>Industrial 4/</b>													
Distillate Fuel	0.185	0.186	0.188	0.189	0.191	0.193	0.195	0.197	0.199	0.202	0.204	0.207	0.7%
Liquefied Petroleum Gas	0.096	0.097	0.099	0.103	0.101	0.103	0.104	0.105	0.106	0.108	0.109	0.113	1.1%
Petrochemical Feedstocks	0.218	0.220	0.224	0.227	0.231	0.234	0.237	0.240	0.242	0.245	0.248	0.251	1.3%
Residual Fuel	0.028	0.028	0.028	0.028	0.028	0.027	0.028	0.028	0.028	0.028	0.028	0.028	2.5%
Motor Gasoline 2/	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.029	0.029	0.029	0.030	0.030	0.7%
Other Petroleum 5/	0.730	0.727	0.729	0.727	0.734	0.738	0.747	0.753	0.763	0.770	0.774	0.775	0.6%
Petroleum Subtotal	1.284	1.286	1.295	1.302	1.313	1.323	1.338	1.351	1.368	1.382	1.393	1.404	0.8%
Natural Gas	1.483	1.496	1.516	1.542	1.570	1.592	1.615	1.631	1.656	1.683	1.710	1.742	1.7%
Lease and Plant Fuel 6/	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.1%
Natural Gas Subtotal	1.494	1.507	1.528	1.554	1.582	1.604	1.627	1.643	1.667	1.695	1.721	1.753	1.6%
Metallurgical Coal	0.281	0.275	0.268	0.263	0.257	0.251	0.246	0.240	0.235	0.230	0.225	0.220	-1.3%
Steam Coal	0.341	0.341	0.341	0.341	0.342	0.341	0.341	0.341	0.342	0.342	0.343	0.343	-0.2%
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	N/A
Coal Subtotal	0.622	0.615	0.609	0.604	0.599	0.593	0.587	0.581	0.577	0.572	0.567	0.563	-0.8%
Renewable Energy 7/	0.427	0.438	0.448	0.460	0.472	0.481	0.490	0.498	0.507	0.517	0.526	0.537	2.5%
Electricity	0.881	0.894	0.909	0.925	0.942	0.954	0.968	0.980	0.996	1.013	1.029	1.048	1.6%
Delivered Energy	4.702	4.733	4.780	4.834	4.896	4.942	4.998	5.040	5.101	5.164	5.223	5.292	1.1%
Electricity Related Losses	2.209	2.241	2.278	2.317	2.325	2.344	2.359	2.333	2.321	2.330	2.346	2.378	1.7%
Total	6.912	6.974	7.058	7.151	7.221	7.286	7.357	7.372	7.422	7.494	7.569	7.669	1.3%
<b>Transportation</b>													
Distillate Fuel 8/	1.089	1.105	1.123	1.141	1.159	1.174	1.191	1.207	1.227	1.249	1.272	1.298	1.9%

Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.384	0.388	0.392	0.397	0.401	0.406	0.409	0.412	0.414	0.416	0.418	0.419	1.2%
Motor Gasoline 2/	3.195	3.223	3.249	3.275	3.302	3.328	3.356	3.386	3.419	3.453	3.492	3.536	1.2%
Residual Fuel	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%
Liquefied Petroleum Gas	0.010	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.013	5.8%
Other Petroleum 10/	0.035	0.035	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.039	0.039	0.040	0.7%
Petroleum Subtotal	4.715	4.764	4.811	4.862	4.912	4.958	5.006	5.057	5.113	5.172	5.236	5.308	1.4%
Pipeline Fuel Natural Gas	0.072	0.073	0.074	0.075	0.077	0.079	0.080	0.081	0.081	0.082	0.084	0.085	1.5%
Compressed Natural Gas	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.013	0.013	0.013	8.1%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	7.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	N/A
Electricity	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	1.6%
Delivered Energy	4.813	4.863	4.912	4.964	5.016	5.065	5.115	5.167	5.224	5.285	5.351	5.425	1.4%
Electricity Related Losses	0.037	0.037	0.038	0.038	0.038	0.039	0.039	0.039	0.038	0.039	0.039	0.039	1.7%
Total	4.850	4.900	4.950	5.003	5.055	5.104	5.154	5.206	5.262	5.323	5.390	5.464	1.4%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.387	1.407	1.426	1.447	1.467	1.484	1.504	1.523	1.546	1.572	1.598	1.628	1.7%
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	3.1%
Jet Fuel 9/	0.384	0.388	0.392	0.397	0.401	0.406	0.409	0.412	0.414	0.416	0.418	0.419	1.2%
Liquefied Petroleum Gas	0.241	0.242	0.245	0.250	0.250	0.252	0.255	0.256	0.258	0.260	0.263	0.268	0.9%
Motor Gasoline 2/	3.228	3.256	3.282	3.309	3.336	3.363	3.390	3.422	3.454	3.489	3.528	3.572	1.2%
Petrochemical Feedstocks	0.218	0.220	0.224	0.227	0.231	0.234	0.237	0.240	0.242	0.245	0.248	0.251	1.3%
Residual Fuel	0.034	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	2.3%
Other Petroleum 12/	0.762	0.759	0.761	0.760	0.768	0.772	0.781	0.787	0.798	0.805	0.810	0.812	0.6%
Petroleum Subtotal	6.265	6.319	6.376	6.434	6.497	6.554	6.620	6.684	6.758	6.833	6.911	6.995	1.3%
Natural Gas	3.826	3.838	3.867	3.896	3.938	3.975	4.014	4.031	4.064	4.105	4.152	4.197	1.0%
Lease and Plant Fuel 6/	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.1%
Pipeline Natural Gas	0.072	0.073	0.074	0.075	0.077	0.079	0.080	0.081	0.081	0.082	0.084	0.085	1.5%
Natural Gas Subtotal	3.910	3.922	3.952	3.983	4.027	4.065	4.106	4.123	4.156	4.199	4.247	4.293	1.0%
Metallurgical Coal	0.281	0.275	0.268	0.263	0.257	0.251	0.246	0.240	0.235	0.230	0.225	0.220	-1.3%
Steam Coal	0.362	0.362	0.361	0.362	0.363	0.362	0.362	0.362	0.362	0.363	0.363	0.364	-0.2%
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	N/A
Coal Subtotal	0.643	0.636	0.630	0.624	0.619	0.613	0.608	0.602	0.597	0.593	0.588	0.583	-0.8%
Renewable Energy 13/	0.518	0.528	0.539	0.550	0.562	0.571	0.581	0.588	0.597	0.607	0.617	0.628	2.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	N/A
Electricity	2.382	2.412	2.445	2.477	2.512	2.545	2.583	2.614	2.654	2.696	2.742	2.787	1.4%
Delivered Energy	13.711	13.810	13.933	14.060	14.207	14.338	14.485	14.598	14.750	14.914	15.091	15.273	1.1%
Electricity Related Losses	5.975	6.048	6.129	6.202	6.205	6.257	6.295	6.221	6.183	6.204	6.251	6.323	1.5%
Total	19.686	19.857	20.062	20.262	20.411	20.595	20.779	20.819	20.932	21.119	21.342	21.596	1.2%
Electric Generators 14/													
Distillate Fuel	0.009	0.009	0.010	0.011	0.011	0.010	0.011	0.016	0.015	0.015	0.017	0.017	0.1%
Residual Fuel	0.002	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	-1.5%
Petroleum Subtotal	0.011	0.012	0.012	0.014	0.013	0.012	0.014	0.018	0.018	0.017	0.020	0.020	-0.2%
Natural Gas	0.993	1.053	1.117	1.202	1.299	1.383	1.452	1.484	1.495	1.564	1.644	1.738	7.8%
Steam Coal	5.682	5.723	5.748	5.765	5.702	5.699	5.703	5.624	5.614	5.609	5.618	5.642	1.0%
Nuclear Power	1.541	1.541	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	0.1%
Renewable Energy/Other 15/	0.134	0.136	0.139	0.141	0.145	0.149	0.150	0.149	0.150	0.151	0.151	0.150	1.5%
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	N/A
Total	8.357	8.460	8.574	8.679	8.717	8.802	8.877	8.835	8.836	8.901	8.993	9.110	1.5%
Total Energy Consumption													
Distillate Fuel	1.396	1.416	1.436	1.458	1.478	1.494	1.515	1.539	1.561	1.586	1.616	1.645	1.7%

Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	3.1%
Jet Fuel 9/	0.384	0.388	0.392	0.397	0.401	0.406	0.409	0.412	0.414	0.416	0.418	0.419	1.2%
Liquefied Petroleum Gas	0.241	0.242	0.245	0.250	0.250	0.252	0.255	0.256	0.258	0.260	0.263	0.268	0.9%
Motor Gasoline 2/	3.228	3.256	3.282	3.309	3.336	3.363	3.390	3.422	3.454	3.489	3.528	3.572	1.2%
Petrochemical Feedstocks	0.218	0.220	0.224	0.227	0.231	0.234	0.237	0.240	0.242	0.245	0.248	0.251	1.3%
Residual Fuel	0.036	0.036	0.036	0.036	0.036	0.035	0.036	0.036	0.036	0.036	0.036	0.036	1.8%
Other Petroleum 12/	0.762	0.759	0.761	0.760	0.768	0.772	0.781	0.787	0.798	0.805	0.810	0.812	0.6%
Petroleum Subtotal	6.276	6.330	6.388	6.448	6.510	6.567	6.634	6.702	6.776	6.850	6.931	7.015	1.3%
Natural Gas	4.820	4.891	4.984	5.099	5.237	5.359	5.467	5.515	5.560	5.670	5.797	5.935	2.1%
Lease and Plant Fuel 6/	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.1%
Pipeline Natural Gas	0.072	0.073	0.074	0.075	0.077	0.079	0.080	0.081	0.081	0.082	0.084	0.085	1.5%
Natural Gas Subtotal	4.903	4.976	5.069	5.186	5.326	5.449	5.559	5.608	5.652	5.763	5.892	6.031	2.1%
Metallurgical Coal	0.281	0.275	0.268	0.263	0.257	0.251	0.246	0.240	0.235	0.230	0.225	0.220	-1.3%
Steam Coal	6.044	6.084	6.110	6.127	6.064	6.061	6.065	5.986	5.976	5.972	5.981	6.006	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	N/A
Coal Subtotal	6.324	6.359	6.378	6.389	6.321	6.312	6.311	6.226	6.211	6.202	6.205	6.226	0.8%
Nuclear Power	1.541	1.541	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	0.1%
Renewable Energy 16/	0.651	0.663	0.678	0.691	0.707	0.720	0.731	0.738	0.747	0.758	0.768	0.777	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	N/A
Total	19.696	19.869	20.075	20.276	20.426	20.609	20.795	20.835	20.948	21.134	21.357	21.610	1.2%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	13.711	13.810	13.933	14.060	14.207	14.338	14.485	14.598	14.750	14.914	15.091	15.273	1.1%
Total Energy Use	19.686	19.857	20.062	20.262	20.411	20.595	20.779	20.819	20.932	21.119	21.342	21.596	1.2%
Population (millions)	48.384	48.504	48.624	48.744	48.862	48.980	49.096	49.213	49.333	49.453	49.575	49.699	0.3%

Table 3. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East North Central

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	0.036	0.036	0.034	0.036	0.036	0.036	0.036	0.036	0.035	0.035	0.035	0.034	0.034
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
Liquefied Petroleum Gas	0.101	0.111	0.104	0.105	0.106	0.108	0.109	0.109	0.109	0.109	0.109	0.109	0.109
Petroleum Subtotal	0.137	0.147	0.138	0.141	0.142	0.144	0.144	0.145	0.144	0.144	0.144	0.144	0.143
Natural Gas	0.465	0.480	0.482	0.494	0.495	0.500	0.503	0.507	0.508	0.511	0.512	0.513	0.510
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/	0.032	0.023	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Electricity	0.306	0.324	0.328	0.333	0.336	0.340	0.345	0.351	0.355	0.359	0.365	0.371	0.374
Delivered Energy	0.941	0.976	0.974	0.992	0.998	1.009	1.018	1.027	1.032	1.039	1.045	1.052	1.053
Electricity Related Losses	0.814	0.855	0.898	0.910	0.927	0.951	0.978	0.980	0.962	0.960	0.957	0.960	0.949
Total	1.755	1.832	1.872	1.903	1.925	1.960	1.996	2.007	1.994	1.999	2.002	2.013	2.002
Commercial													
Distillate Fuel	0.023	0.023	0.027	0.027	0.029	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.034
Residual Fuel	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
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
Liquefied Petroleum Gas	0.015	0.016	0.015	0.016	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
Motor Gasoline 2/	0.008	0.009	0.009	0.009	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.009	0.009
Petroleum Subtotal	0.048	0.050	0.054	0.055	0.057	0.057	0.058	0.059	0.059	0.060	0.060	0.061	0.062
Natural Gas	0.303	0.301	0.300	0.294	0.296	0.302	0.305	0.307	0.309	0.311	0.311	0.311	0.311
Coal	0.016	0.016	0.017	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Renewable Energy 3/	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
Electricity	0.269	0.272	0.276	0.285	0.294	0.301	0.308	0.314	0.320	0.325	0.330	0.336	0.342
Delivered Energy	0.641	0.645	0.652	0.655	0.669	0.682	0.694	0.702	0.709	0.717	0.724	0.730	0.737
Electricity Related Losses	0.715	0.718	0.754	0.780	0.811	0.843	0.874	0.877	0.867	0.867	0.867	0.871	0.868
Total	1.356	1.363	1.406	1.435	1.480	1.525	1.568	1.579	1.576	1.584	1.591	1.601	1.605
Industrial 4/													
Distillate Fuel	0.175	0.172	0.172	0.167	0.169	0.169	0.169	0.170	0.169	0.171	0.173	0.175	0.178
Liquefied Petroleum Gas	0.138	0.147	0.140	0.142	0.145	0.147	0.149	0.151	0.152	0.154	0.156	0.158	0.161
Petrochemical Feedstocks	0.022	0.023	0.024	0.024	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.027	0.027
Residual Fuel	0.005	0.006	0.006	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Motor Gasoline 2/	0.027	0.028	0.029	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.029	0.029
Other Petroleum 5/	0.262	0.251	0.249	0.242	0.260	0.266	0.270	0.272	0.269	0.271	0.271	0.274	0.276
Petroleum Subtotal	0.630	0.627	0.620	0.609	0.636	0.645	0.652	0.657	0.653	0.659	0.664	0.673	0.681
Natural Gas	0.413	0.413	0.410	0.431	0.459	0.465	0.469	0.474	0.483	0.491	0.499	0.502	0.508
Lease and Plant Fuel 6/	0.032	0.031	0.028	0.028	0.031	0.036	0.039	0.043	0.045	0.050	0.052	0.054	0.056
Natural Gas Subtotal	0.446	0.444	0.438	0.458	0.490	0.500	0.508	0.517	0.528	0.541	0.551	0.556	0.564
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
Steam Coal	0.239	0.235	0.223	0.222	0.223	0.223	0.222	0.221	0.221	0.221	0.221	0.222	0.222
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	0.239	0.235	0.223	0.222	0.223	0.223	0.222	0.221	0.221	0.221	0.221	0.222	0.222
Renewable Energy 7/	0.107	0.108	0.108	0.112	0.116	0.119	0.122	0.124	0.127	0.130	0.134	0.137	0.140
Electricity	0.254	0.265	0.261	0.268	0.275	0.281	0.287	0.292	0.296	0.301	0.306	0.311	0.316
Delivered Energy	1.676	1.679	1.650	1.670	1.741	1.768	1.792	1.812	1.825	1.853	1.877	1.898	1.923
Electricity Related Losses	0.677	0.700	0.713	0.733	0.760	0.787	0.814	0.814	0.803	0.803	0.804	0.806	0.801
Total	2.353	2.378	2.363	2.403	2.501	2.555	2.605	2.626	2.628	2.656	2.681	2.704	2.724
Transportation													
Distillate Fuel 8/	0.540	0.521	0.521	0.539	0.558	0.573	0.587	0.598	0.611	0.626	0.640	0.653	0.667

Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.182	0.178	0.173	0.177	0.182	0.187	0.190	0.195	0.198	0.202	0.206	0.210	0.213
Motor Gasoline 2/	1.250	1.284	1.310	1.353	1.388	1.415	1.437	1.459	1.481	1.502	1.523	1.545	1.567
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquefied Petroleum Gas	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004
Other Petroleum 10/	0.017	0.020	0.019	0.020	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.021	0.021
Petroleum Subtotal	1.991	2.004	2.025	2.090	2.150	2.197	2.237	2.275	2.314	2.354	2.393	2.432	2.473
Pipeline Fuel Natural Gas	0.080	0.081	0.089	0.088	0.089	0.089	0.091	0.093	0.093	0.095	0.095	0.097	0.098
Compressed Natural Gas	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.006
Renewable Energy (E85) 11/	0.000	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
Electricity	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Delivered Energy	2.077	2.091	2.121	2.186	2.247	2.295	2.336	2.378	2.418	2.459	2.500	2.541	2.582
Electricity Related Losses	0.013	0.014	0.014	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
Total	2.090	2.105	2.136	2.201	2.262	2.311	2.352	2.394	2.434	2.475	2.516	2.557	2.598
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.774	0.752	0.755	0.770	0.791	0.808	0.822	0.835	0.847	0.863	0.880	0.896	0.913
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Jet Fuel 9/	0.182	0.178	0.173	0.177	0.182	0.187	0.190	0.195	0.198	0.202	0.206	0.210	0.213
Liquefied Petroleum Gas	0.256	0.276	0.260	0.264	0.271	0.273	0.277	0.280	0.280	0.283	0.285	0.288	0.290
Motor Gasoline 2/	1.285	1.321	1.347	1.389	1.424	1.451	1.473	1.495	1.517	1.539	1.560	1.582	1.605
Petrochemical Feedstocks	0.022	0.023	0.024	0.024	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.027	0.027
Residual Fuel	0.007	0.007	0.009	0.009	0.012	0.012	0.012	0.013	0.012	0.013	0.012	0.013	0.013
Other Petroleum 12/	0.279	0.270	0.267	0.260	0.279	0.284	0.289	0.291	0.288	0.290	0.290	0.293	0.296
Petroleum Subtotal	2.807	2.827	2.837	2.896	2.986	3.043	3.091	3.136	3.171	3.217	3.262	3.310	3.359
Natural Gas	1.182	1.195	1.194	1.220	1.253	1.269	1.281	1.291	1.304	1.317	1.327	1.332	1.336
Lease and Plant Fuel 6/	0.032	0.031	0.028	0.028	0.031	0.036	0.039	0.043	0.045	0.050	0.052	0.054	0.056
Pipeline Natural Gas	0.080	0.081	0.089	0.088	0.089	0.089	0.091	0.093	0.093	0.095	0.095	0.097	0.098
Natural Gas Subtotal	1.294	1.308	1.311	1.336	1.373	1.394	1.410	1.427	1.442	1.462	1.475	1.483	1.489
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
Steam Coal	0.256	0.253	0.242	0.240	0.241	0.241	0.241	0.240	0.239	0.239	0.240	0.240	0.240
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	0.256	0.253	0.242	0.240	0.241	0.241	0.241	0.240	0.239	0.239	0.240	0.240	0.240
Renewable Energy 13/	0.144	0.137	0.137	0.141	0.145	0.148	0.151	0.153	0.156	0.159	0.162	0.165	0.169
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
Electricity	0.834	0.867	0.870	0.891	0.910	0.928	0.946	0.963	0.976	0.991	1.007	1.024	1.039
Delivered Energy	5.335	5.391	5.397	5.503	5.655	5.754	5.839	5.919	5.984	6.068	6.145	6.222	6.295
Electricity Related Losses	2.219	2.287	2.379	2.438	2.514	2.597	2.683	2.688	2.648	2.646	2.645	2.653	2.634
Total	7.555	7.678	7.776	7.941	8.169	8.351	8.522	8.607	8.632	8.714	8.790	8.876	8.929
Electric Generators 14/													
Distillate Fuel	0.009	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.008	0.008	0.009	0.011	0.013
Residual Fuel	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002
Petroleum Subtotal	0.014	0.009	0.008	0.008	0.009	0.009	0.010	0.011	0.009	0.009	0.010	0.012	0.014
Natural Gas	0.082	0.079	0.115	0.132	0.125	0.127	0.132	0.143	0.113	0.116	0.125	0.148	0.141
Steam Coal	2.314	2.395	2.441	2.482	2.579	2.673	2.758	2.762	2.766	2.769	2.771	2.772	2.773
Nuclear Power	0.478	0.484	0.477	0.484	0.486	0.487	0.488	0.489	0.489	0.489	0.490	0.490	0.490
Renewable Energy/Other 15/	0.136	0.171	0.180	0.200	0.201	0.208	0.221	0.226	0.227	0.231	0.232	0.232	0.232
Electricity Imports	0.030	0.016	0.029	0.022	0.023	0.021	0.020	0.020	0.021	0.022	0.023	0.022	0.023
Total	3.053	3.153	3.249	3.329	3.424	3.525	3.629	3.651	3.624	3.637	3.652	3.677	3.673
Total Energy Consumption													
Distillate Fuel	0.783	0.759	0.763	0.779	0.800	0.817	0.832	0.845	0.855	0.872	0.889	0.907	0.926

Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Jet Fuel 9/	0.182	0.178	0.173	0.177	0.182	0.187	0.190	0.195	0.198	0.202	0.206	0.210	0.213
Liquefied Petroleum Gas	0.256	0.276	0.260	0.264	0.271	0.273	0.277	0.280	0.280	0.283	0.285	0.288	0.290
Motor Gasoline 2/	1.285	1.321	1.347	1.389	1.424	1.451	1.473	1.495	1.517	1.539	1.560	1.582	1.605
Petrochemical Feedstocks	0.022	0.023	0.024	0.024	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.027	0.027
Residual Fuel	0.012	0.009	0.009	0.009	0.012	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014
Other Petroleum 12/	0.279	0.270	0.267	0.260	0.279	0.284	0.289	0.291	0.288	0.290	0.290	0.293	0.296
Petroleum Subtotal	2.820	2.836	2.845	2.904	2.995	3.052	3.101	3.147	3.179	3.226	3.271	3.322	3.373
Natural Gas	1.264	1.274	1.309	1.352	1.378	1.396	1.412	1.434	1.416	1.433	1.452	1.481	1.477
Lease and Plant Fuel 6/	0.032	0.031	0.028	0.028	0.031	0.036	0.039	0.043	0.045	0.050	0.052	0.054	0.056
Pipeline Natural Gas	0.080	0.081	0.089	0.088	0.089	0.089	0.091	0.093	0.093	0.095	0.095	0.097	0.098
Natural Gas Subtotal	1.376	1.386	1.426	1.468	1.498	1.521	1.542	1.571	1.555	1.578	1.600	1.631	1.630
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
Steam Coal	2.570	2.648	2.683	2.723	2.821	2.914	2.999	3.002	3.005	3.008	3.011	3.012	3.013
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	2.570	2.648	2.683	2.723	2.821	2.914	2.999	3.002	3.005	3.008	3.011	3.012	3.013
Nuclear Power	0.478	0.484	0.477	0.484	0.486	0.487	0.488	0.489	0.489	0.489	0.490	0.490	0.490
Renewable Energy 16/	0.280	0.308	0.316	0.341	0.346	0.356	0.372	0.379	0.383	0.390	0.395	0.398	0.401
Electricity Imports	0.030	0.016	0.029	0.022	0.023	0.021	0.020	0.020	0.021	0.022	0.023	0.022	0.023
Total	7.555	7.678	7.776	7.941	8.169	8.351	8.522	8.607	8.632	8.714	8.790	8.876	8.929
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	5.335	5.391	5.397	5.503	5.655	5.754	5.839	5.919	5.984	6.068	6.145	6.222	6.295
Total Energy Use	7.555	7.678	7.776	7.941	8.169	8.351	8.522	8.607	8.632	8.714	8.790	8.876	8.929
Population (millions)	19.610	19.772	19.917	20.041	20.151	20.255	20.358	20.459	20.561	20.661	20.762	20.862	20.963



Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	0.034	0.033	0.033	0.032	0.031	0.031	0.030	0.030	0.029	0.029	0.028	0.027	-1.1%
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	3.6%
Liquefied Petroleum Gas	0.109	0.110	0.110	0.110	0.110	0.110	0.111	0.111	0.111	0.111	0.112	0.111	0.0%
Petroleum Subtotal	0.143	0.143	0.143	0.142	0.142	0.141	0.141	0.141	0.140	0.140	0.140	0.139	-0.2%
Natural Gas	0.509	0.509	0.510	0.510	0.512	0.514	0.517	0.515	0.515	0.516	0.518	0.518	0.3%
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	-0.5%
Renewable Energy 1/	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	-0.1%
Electricity	0.379	0.383	0.389	0.392	0.397	0.402	0.407	0.410	0.414	0.419	0.425	0.429	1.2%
Delivered Energy	1.056	1.059	1.067	1.069	1.075	1.082	1.090	1.091	1.094	1.099	1.107	1.110	0.6%
Electricity Related Losses	0.944	0.942	0.937	0.933	0.952	0.967	0.982	0.989	1.004	1.022	1.037	1.049	0.9%
Total	2.000	2.002	2.004	2.001	2.026	2.049	2.072	2.079	2.099	2.121	2.144	2.159	0.7%
Commercial													
Distillate Fuel	0.035	0.035	0.036	0.037	0.037	0.038	0.038	0.039	0.039	0.040	0.040	0.041	2.4%
Residual Fuel	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	2.4%
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	1.3%
Liquefied Petroleum Gas	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.0%
Motor Gasoline 2/	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.1%
Petroleum Subtotal	0.063	0.063	0.064	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069	1.4%
Natural Gas	0.312	0.313	0.315	0.318	0.321	0.324	0.327	0.328	0.328	0.328	0.328	0.329	0.4%
Coal	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%
Renewable Energy 3/	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.0%
Electricity	0.348	0.355	0.361	0.368	0.375	0.381	0.388	0.393	0.398	0.403	0.408	0.412	1.8%
Delivered Energy	0.745	0.753	0.762	0.772	0.783	0.794	0.803	0.810	0.816	0.822	0.827	0.831	1.1%
Electricity Related Losses	0.868	0.872	0.871	0.875	0.899	0.919	0.935	0.948	0.966	0.984	0.995	1.007	1.5%
Total	1.613	1.625	1.633	1.647	1.681	1.712	1.738	1.757	1.781	1.806	1.822	1.839	1.3%
Industrial 4/													
Distillate Fuel	0.180	0.182	0.184	0.185	0.187	0.188	0.190	0.193	0.195	0.197	0.200	0.202	0.7%
Liquefied Petroleum Gas	0.162	0.164	0.166	0.170	0.171	0.173	0.175	0.178	0.180	0.182	0.184	0.187	1.1%
Petrochemical Feedstocks	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	1.3%
Residual Fuel	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	2.3%
Motor Gasoline 2/	0.030	0.030	0.030	0.030	0.031	0.031	0.031	0.031	0.032	0.032	0.033	0.033	0.7%
Other Petroleum 5/	0.279	0.278	0.279	0.279	0.282	0.283	0.287	0.289	0.293	0.296	0.298	0.299	0.8%
Petroleum Subtotal	0.688	0.691	0.697	0.702	0.709	0.715	0.723	0.730	0.739	0.748	0.755	0.762	0.9%
Natural Gas	0.513	0.517	0.524	0.533	0.543	0.550	0.558	0.564	0.573	0.582	0.591	0.602	1.7%
Lease and Plant Fuel 6/	0.057	0.059	0.061	0.062	0.061	0.062	0.067	0.068	0.068	0.068	0.068	0.069	3.6%
Natural Gas Subtotal	0.570	0.576	0.585	0.595	0.604	0.613	0.625	0.632	0.641	0.650	0.660	0.672	1.8%
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	N/A
Steam Coal	0.222	0.222	0.222	0.222	0.223	0.222	0.222	0.222	0.223	0.223	0.223	0.224	-0.2%
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	N/A
Coal Subtotal	0.222	0.222	0.222	0.222	0.223	0.222	0.222	0.222	0.223	0.223	0.223	0.224	-0.2%
Renewable Energy 7/	0.143	0.146	0.149	0.152	0.156	0.158	0.161	0.163	0.166	0.168	0.171	0.174	2.1%
Electricity	0.321	0.325	0.331	0.337	0.343	0.347	0.352	0.357	0.363	0.369	0.375	0.382	1.6%
Delivered Energy	1.944	1.961	1.983	2.008	2.034	2.055	2.084	2.104	2.131	2.158	2.184	2.213	1.2%
Electricity Related Losses	0.799	0.800	0.798	0.801	0.822	0.836	0.850	0.860	0.879	0.900	0.914	0.933	1.3%
Total	2.743	2.761	2.781	2.809	2.856	2.891	2.934	2.964	3.010	3.058	3.097	3.146	1.2%
Transportation													
Distillate Fuel 8/	0.678	0.689	0.700	0.713	0.724	0.734	0.745	0.756	0.769	0.784	0.799	0.816	2.0%

Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.217	0.219	0.222	0.225	0.228	0.230	0.232	0.234	0.236	0.238	0.239	0.240	1.3%
Motor Gasoline 2/	1.585	1.602	1.619	1.635	1.651	1.667	1.684	1.703	1.722	1.744	1.767	1.792	1.5%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.3%
Liquefied Petroleum Gas	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	6.0%
Other Petroleum 10/	0.021	0.021	0.022	0.022	0.022	0.023	0.023	0.023	0.024	0.024	0.025	0.025	1.1%
Petroleum Subtotal	2.506	2.537	2.567	2.599	2.630	2.659	2.690	2.721	2.757	2.794	2.834	2.879	1.6%
Pipeline Fuel Natural Gas	0.098	0.099	0.100	0.102	0.104	0.107	0.110	0.112	0.113	0.115	0.117	0.120	1.7%
Compressed Natural Gas	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	9.7%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.3%
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	N/A
Electricity	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	1.7%
Delivered Energy	2.617	2.649	2.681	2.715	2.749	2.781	2.814	2.848	2.885	2.925	2.968	3.016	1.6%
Electricity Related Losses	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.018	0.018	0.018	0.019	1.4%
Total	2.633	2.665	2.697	2.731	2.765	2.797	2.831	2.865	2.902	2.943	2.986	3.035	1.6%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.927	0.940	0.953	0.967	0.980	0.991	1.004	1.017	1.033	1.049	1.067	1.086	1.6%
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	4.0%
Jet Fuel 9/	0.217	0.219	0.222	0.225	0.228	0.230	0.232	0.234	0.236	0.238	0.239	0.240	1.3%
Liquefied Petroleum Gas	0.292	0.294	0.297	0.300	0.302	0.305	0.308	0.310	0.312	0.314	0.317	0.320	0.7%
Motor Gasoline 2/	1.623	1.640	1.657	1.674	1.690	1.707	1.724	1.743	1.763	1.785	1.808	1.834	1.4%
Petrochemical Feedstocks	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	1.3%
Residual Fuel	0.013	0.013	0.013	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	2.3%
Other Petroleum 12/	0.299	0.298	0.300	0.299	0.303	0.305	0.309	0.311	0.316	0.319	0.321	0.323	0.8%
Petroleum Subtotal	3.400	3.434	3.471	3.508	3.546	3.581	3.621	3.659	3.704	3.750	3.798	3.849	1.4%
Natural Gas	1.340	1.345	1.356	1.367	1.382	1.396	1.410	1.415	1.423	1.434	1.446	1.457	0.9%
Lease and Plant Fuel 6/	0.057	0.059	0.061	0.062	0.061	0.062	0.067	0.068	0.068	0.068	0.068	0.069	3.6%
Pipeline Natural Gas	0.098	0.099	0.100	0.102	0.104	0.107	0.110	0.112	0.113	0.115	0.117	0.120	1.7%
Natural Gas Subtotal	1.495	1.503	1.517	1.531	1.548	1.565	1.586	1.594	1.604	1.617	1.631	1.647	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	N/A
Steam Coal	0.240	0.240	0.240	0.240	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	-0.2%
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	N/A
Coal Subtotal	0.240	0.240	0.240	0.240	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.242	-0.2%
Renewable Energy 13/	0.172	0.175	0.178	0.181	0.184	0.187	0.189	0.191	0.194	0.197	0.200	0.203	1.7%
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	N/A
Electricity	1.054	1.070	1.087	1.104	1.121	1.137	1.154	1.167	1.183	1.198	1.215	1.230	1.5%
Delivered Energy	6.361	6.423	6.493	6.564	6.640	6.711	6.791	6.852	6.926	7.004	7.085	7.171	1.2%
Electricity Related Losses	2.628	2.630	2.622	2.625	2.689	2.739	2.784	2.814	2.867	2.924	2.964	3.007	1.2%
Total	8.989	9.053	9.115	9.188	9.329	9.450	9.575	9.667	9.793	9.928	10.050	10.178	1.2%
Electric Generators 14/													
Distillate Fuel	0.015	0.017	0.017	0.017	0.015	0.013	0.013	0.016	0.017	0.015	0.017	0.018	4.1%
Residual Fuel	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.8%
Petroleum Subtotal	0.017	0.019	0.020	0.020	0.018	0.015	0.016	0.018	0.019	0.017	0.019	0.020	3.6%
Natural Gas	0.145	0.158	0.164	0.168	0.172	0.173	0.176	0.169	0.161	0.152	0.160	0.169	3.4%
Steam Coal	2.775	2.775	2.777	2.794	2.876	2.947	3.003	3.054	3.132	3.218	3.266	3.316	1.4%
Nuclear Power	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.1%
Renewable Energy/Other 15/	0.234	0.235	0.237	0.237	0.237	0.237	0.238	0.238	0.238	0.238	0.238	0.238	1.4%
Electricity Imports	0.022	0.023	0.022	0.019	0.017	0.014	0.015	0.012	0.010	0.008	0.006	0.005	-4.6%
Total	3.682	3.700	3.710	3.728	3.810	3.876	3.938	3.981	4.050	4.123	4.180	4.238	1.3%
Total Energy Consumption													
Distillate Fuel	0.942	0.957	0.970	0.984	0.995	1.005	1.018	1.033	1.049	1.064	1.084	1.104	1.6%

Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	4.0%
Jet Fuel 9/	0.217	0.219	0.222	0.225	0.228	0.230	0.232	0.234	0.236	0.238	0.239	0.240	1.3%
Liquefied Petroleum Gas	0.292	0.294	0.297	0.300	0.302	0.305	0.308	0.310	0.312	0.314	0.317	0.320	0.7%
Motor Gasoline 2/	1.623	1.640	1.657	1.674	1.690	1.707	1.724	1.743	1.763	1.785	1.808	1.834	1.4%
Petrochemical Feedstocks	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	1.3%
Residual Fuel	0.015	0.015	0.015	0.015	0.015	0.014	0.014	0.015	0.015	0.015	0.015	0.015	2.1%
Other Petroleum 12/	0.299	0.298	0.300	0.299	0.303	0.305	0.309	0.311	0.316	0.319	0.321	0.323	0.8%
Petroleum Subtotal	3.416	3.453	3.490	3.528	3.564	3.596	3.636	3.677	3.723	3.767	3.817	3.869	1.4%
Natural Gas	1.485	1.503	1.520	1.535	1.554	1.569	1.586	1.584	1.585	1.586	1.607	1.626	1.1%
Lease and Plant Fuel 6/	0.057	0.059	0.061	0.062	0.061	0.062	0.067	0.068	0.068	0.068	0.068	0.069	3.6%
Pipeline Natural Gas	0.098	0.099	0.100	0.102	0.104	0.107	0.110	0.112	0.113	0.115	0.117	0.120	1.7%
Natural Gas Subtotal	1.640	1.661	1.681	1.699	1.719	1.738	1.763	1.763	1.766	1.769	1.792	1.816	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	N/A
Steam Coal	3.015	3.015	3.017	3.035	3.117	3.187	3.244	3.295	3.373	3.459	3.507	3.558	1.3%
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	N/A
Coal Subtotal	3.015	3.015	3.017	3.035	3.117	3.187	3.244	3.295	3.373	3.459	3.507	3.558	1.3%
Nuclear Power	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.1%
Renewable Energy 16/	0.406	0.410	0.415	0.418	0.421	0.423	0.427	0.429	0.432	0.434	0.437	0.440	1.6%
Electricity Imports	0.022	0.023	0.022	0.019	0.017	0.014	0.015	0.012	0.010	0.008	0.006	0.005	-4.6%
Total	8.989	9.053	9.115	9.188	9.329	9.450	9.575	9.667	9.793	9.928	10.050	10.178	1.2%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	6.361	6.423	6.493	6.564	6.640	6.711	6.791	6.852	6.926	7.004	7.085	7.171	1.2%
Total Energy Use	8.989	9.053	9.115	9.188	9.329	9.450	9.575	9.667	9.793	9.928	10.050	10.178	1.2%
Population (millions)	21.061	21.157	21.251	21.344	21.437	21.528	21.617	21.707	21.796	21.886	21.975	22.065	0.5%

Table 4. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
West North Central

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	0.071	0.072	0.069	0.072	0.072	0.072	0.071	0.070	0.069	0.068	0.068	0.067	0.066
Kerosene	0.023	0.016	0.019	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.025
Liquefied Petroleum Gas	0.077	0.084	0.080	0.081	0.083	0.085	0.086	0.088	0.088	0.090	0.091	0.092	0.093
Petroleum Subtotal	0.170	0.172	0.167	0.180	0.181	0.183	0.183	0.184	0.184	0.184	0.184	0.185	0.184
Natural Gas	0.435	0.463	0.474	0.492	0.501	0.515	0.527	0.539	0.549	0.562	0.572	0.581	0.587
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/	0.046	0.059	0.060	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
Electricity	0.999	1.097	1.107	1.128	1.148	1.169	1.195	1.224	1.247	1.273	1.299	1.327	1.347
Delivered Energy	1.652	1.793	1.809	1.861	1.891	1.928	1.965	2.008	2.040	2.080	2.116	2.154	2.179
Electricity Related Losses	1.972	2.103	2.013	1.995	2.059	2.112	2.169	2.189	2.139	2.126	2.134	2.151	2.121
Total	3.624	3.896	3.822	3.856	3.949	4.040	4.134	4.196	4.180	4.205	4.249	4.305	4.300
Commercial													
Distillate Fuel	0.084	0.086	0.099	0.097	0.100	0.103	0.106	0.108	0.110	0.111	0.113	0.115	0.117
Residual Fuel	0.003	0.003	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Kerosene	0.007	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Liquefied Petroleum Gas	0.014	0.015	0.014	0.015	0.016	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016
Motor Gasoline 2/	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
Petroleum Subtotal	0.117	0.116	0.131	0.131	0.135	0.137	0.140	0.142	0.145	0.147	0.149	0.151	0.152
Natural Gas	0.332	0.330	0.334	0.335	0.342	0.352	0.361	0.370	0.383	0.398	0.409	0.417	0.422
Coal	0.017	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Renewable Energy 3/	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Electricity	0.909	0.932	0.937	0.970	1.001	1.032	1.064	1.101	1.142	1.184	1.225	1.261	1.293
Delivered Energy	1.395	1.415	1.439	1.473	1.516	1.558	1.603	1.651	1.707	1.766	1.821	1.866	1.904
Electricity Related Losses	1.794	1.787	1.703	1.715	1.796	1.863	1.933	1.969	1.959	1.977	2.013	2.045	2.036
Total	3.190	3.202	3.142	3.188	3.312	3.421	3.536	3.621	3.666	3.743	3.833	3.910	3.940
Industrial 4/													
Distillate Fuel	0.191	0.181	0.184	0.178	0.180	0.181	0.182	0.184	0.182	0.184	0.187	0.191	0.195
Liquefied Petroleum Gas	0.037	0.039	0.037	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.042	0.043	0.044
Petrochemical Feedstocks	0.126	0.133	0.139	0.140	0.142	0.144	0.146	0.147	0.146	0.147	0.150	0.152	0.154
Residual Fuel	0.053	0.084	0.089	0.087	0.086	0.085	0.086	0.087	0.085	0.084	0.086	0.088	0.090
Motor Gasoline 2/	0.022	0.022	0.023	0.022	0.022	0.023	0.023	0.023	0.022	0.023	0.023	0.023	0.024
Other Petroleum 5/	0.390	0.354	0.359	0.338	0.338	0.335	0.334	0.334	0.323	0.328	0.336	0.343	0.353
Petroleum Subtotal	0.819	0.814	0.831	0.804	0.807	0.808	0.811	0.815	0.799	0.808	0.824	0.840	0.859
Natural Gas	0.562	0.548	0.542	0.569	0.590	0.602	0.611	0.618	0.630	0.638	0.643	0.647	0.651
Lease and Plant Fuel 6/	0.013	0.012	0.009	0.008	0.008	0.009	0.011	0.012	0.013	0.014	0.014	0.015	0.015
Natural Gas Subtotal	0.575	0.560	0.551	0.576	0.599	0.611	0.622	0.631	0.643	0.652	0.658	0.661	0.666
Metallurgical Coal	0.066	0.057	0.062	0.063	0.062	0.061	0.061	0.060	0.059	0.058	0.057	0.056	0.055
Steam Coal	0.295	0.284	0.271	0.271	0.272	0.272	0.272	0.272	0.272	0.273	0.274	0.275	0.276
Net Coal Coke Imports	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
Coal Subtotal	0.363	0.344	0.336	0.337	0.338	0.337	0.337	0.336	0.336	0.336	0.336	0.336	0.336
Renewable Energy 7/	0.313	0.318	0.317	0.327	0.336	0.343	0.348	0.353	0.359	0.366	0.374	0.382	0.391
Electricity	0.513	0.527	0.519	0.533	0.546	0.557	0.568	0.578	0.586	0.596	0.607	0.618	0.631
Delivered Energy	2.583	2.563	2.553	2.576	2.626	2.657	2.687	2.712	2.722	2.758	2.798	2.838	2.883
Electricity Related Losses	1.013	1.011	0.943	0.942	0.979	1.006	1.032	1.033	1.006	0.994	0.997	1.003	0.994
Total	3.597	3.574	3.496	3.518	3.605	3.662	3.719	3.746	3.728	3.752	3.796	3.840	3.877
Transportation													
Distillate Fuel 8/	0.927	0.893	0.905	0.945	0.986	1.023	1.057	1.089	1.124	1.162	1.200	1.237	1.275

Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.371	0.362	0.360	0.371	0.383	0.394	0.404	0.415	0.425	0.436	0.446	0.457	0.467
Motor Gasoline 2/	3.205	3.293	3.353	3.473	3.586	3.681	3.766	3.855	3.945	4.037	4.127	4.221	4.318
Residual Fuel	0.101	0.086	0.094	0.095	0.096	0.096	0.097	0.098	0.098	0.099	0.100	0.100	0.101
Liquefied Petroleum Gas	0.003	0.003	0.004	0.004	0.007	0.008	0.008	0.009	0.010	0.010	0.011	0.011	0.012
Other Petroleum 10/	0.037	0.043	0.043	0.043	0.043	0.044	0.045	0.046	0.046	0.047	0.048	0.048	0.049
Petroleum Subtotal	4.643	4.681	4.759	4.932	5.101	5.246	5.377	5.511	5.648	5.792	5.930	6.074	6.223
Pipeline Fuel Natural Gas	0.066	0.067	0.063	0.059	0.056	0.053	0.053	0.054	0.051	0.053	0.054	0.054	0.053
Compressed Natural Gas	0.002	0.003	0.004	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.012
Renewable Energy (E85) 11/	0.000	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
Electricity	0.014	0.014	0.014	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.017	0.018	0.018
Delivered Energy	4.725	4.764	4.840	5.010	5.178	5.322	5.453	5.590	5.726	5.872	6.013	6.158	6.307
Electricity Related Losses	0.027	0.027	0.026	0.026	0.027	0.028	0.029	0.029	0.029	0.028	0.029	0.029	0.029
Total	4.752	4.791	4.866	5.036	5.205	5.350	5.482	5.619	5.754	5.900	6.041	6.187	6.336
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.272	1.232	1.256	1.293	1.339	1.379	1.416	1.451	1.485	1.526	1.568	1.609	1.652
Kerosene	0.032	0.021	0.026	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.035
Jet Fuel 9/	0.371	0.362	0.360	0.371	0.383	0.394	0.404	0.415	0.425	0.436	0.446	0.457	0.467
Liquefied Petroleum Gas	0.131	0.141	0.135	0.139	0.144	0.147	0.150	0.153	0.155	0.157	0.159	0.162	0.164
Motor Gasoline 2/	3.235	3.324	3.385	3.504	3.617	3.713	3.797	3.886	3.977	4.069	4.159	4.253	4.351
Petrochemical Feedstocks	0.126	0.133	0.139	0.140	0.142	0.144	0.146	0.147	0.146	0.147	0.150	0.152	0.154
Residual Fuel	0.158	0.174	0.187	0.187	0.186	0.187	0.188	0.189	0.188	0.188	0.191	0.193	0.196
Other Petroleum 12/	0.424	0.396	0.401	0.379	0.379	0.377	0.376	0.376	0.365	0.371	0.379	0.388	0.399
Petroleum Subtotal	5.750	5.784	5.888	6.047	6.224	6.374	6.512	6.652	6.776	6.930	7.087	7.249	7.419
Natural Gas	1.330	1.343	1.354	1.400	1.440	1.475	1.506	1.536	1.572	1.607	1.635	1.656	1.673
Lease and Plant Fuel 6/	0.013	0.012	0.009	0.008	0.008	0.009	0.011	0.012	0.013	0.014	0.014	0.015	0.015
Pipeline Natural Gas	0.066	0.067	0.063	0.059	0.056	0.053	0.053	0.054	0.051	0.053	0.054	0.054	0.053
Natural Gas Subtotal	1.409	1.423	1.425	1.467	1.504	1.537	1.570	1.602	1.636	1.674	1.703	1.725	1.741
Metallurgical Coal	0.066	0.057	0.062	0.063	0.062	0.061	0.061	0.060	0.059	0.058	0.057	0.056	0.055
Steam Coal	0.314	0.303	0.289	0.289	0.291	0.291	0.291	0.291	0.291	0.292	0.293	0.294	0.295
Net Coal Coke Imports	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
Coal Subtotal	0.382	0.362	0.355	0.356	0.357	0.356	0.356	0.355	0.354	0.355	0.355	0.354	0.354
Renewable Energy 13/	0.379	0.397	0.397	0.406	0.416	0.423	0.428	0.432	0.438	0.446	0.454	0.462	0.471
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
Electricity	2.435	2.571	2.576	2.646	2.710	2.774	2.843	2.919	2.991	3.070	3.149	3.224	3.288
Delivered Energy	10.355	10.536	10.642	10.921	11.211	11.464	11.708	11.961	12.195	12.475	12.748	13.016	13.274
Electricity Related Losses	4.807	4.927	4.685	4.678	4.861	5.009	5.163	5.221	5.133	5.125	5.172	5.227	5.180
Total	15.162	15.463	15.326	15.599	16.072	16.473	16.871	17.181	17.328	17.600	17.920	18.243	18.453
Electric Generators 14/													
Distillate Fuel	0.145	0.087	0.100	0.104	0.118	0.122	0.131	0.155	0.141	0.097	0.131	0.202	0.221
Residual Fuel	0.356	0.293	0.244	0.115	0.102	0.107	0.106	0.113	0.105	0.097	0.092	0.092	0.085
Petroleum Subtotal	0.501	0.380	0.344	0.219	0.220	0.229	0.237	0.268	0.246	0.194	0.223	0.294	0.306
Natural Gas	0.525	0.750	0.449	0.619	0.647	0.674	0.677	0.676	0.606	0.694	0.719	0.736	0.692
Steam Coal	4.007	4.102	4.201	4.217	4.352	4.522	4.729	4.827	4.899	4.927	4.990	5.012	5.026
Nuclear Power	2.020	2.050	2.029	2.010	2.080	2.082	2.083	2.086	2.087	2.092	2.093	2.112	2.132
Renewable Energy/Other 15/	0.189	0.217	0.238	0.258	0.272	0.275	0.280	0.283	0.286	0.288	0.296	0.298	0.313
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	7.242	7.498	7.261	7.324	7.572	7.782	8.006	8.140	8.124	8.195	8.321	8.451	8.468
Total Energy Consumption													
Distillate Fuel	1.418	1.319	1.356	1.397	1.457	1.502	1.547	1.605	1.626	1.623	1.699	1.812	1.873

Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.032	0.021	0.026	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.035
Jet Fuel 9/	0.371	0.362	0.360	0.371	0.383	0.394	0.404	0.415	0.425	0.436	0.446	0.457	0.467
Liquefied Petroleum Gas	0.131	0.141	0.135	0.139	0.144	0.147	0.150	0.153	0.155	0.157	0.159	0.162	0.164
Motor Gasoline 2/	3.235	3.324	3.385	3.504	3.617	3.713	3.797	3.886	3.977	4.069	4.159	4.253	4.351
Petrochemical Feedstocks	0.126	0.133	0.139	0.140	0.142	0.144	0.146	0.147	0.146	0.147	0.150	0.152	0.154
Residual Fuel	0.513	0.467	0.431	0.302	0.288	0.294	0.294	0.303	0.293	0.285	0.283	0.285	0.281
Other Petroleum 12/	0.424	0.396	0.401	0.379	0.379	0.377	0.376	0.376	0.365	0.371	0.379	0.388	0.399
Petroleum Subtotal	6.251	6.163	6.232	6.266	6.444	6.604	6.749	6.920	7.022	7.124	7.310	7.543	7.725
Natural Gas	1.855	2.093	1.803	2.019	2.086	2.149	2.184	2.212	2.178	2.301	2.355	2.392	2.364
Lease and Plant Fuel 6/	0.013	0.012	0.009	0.008	0.008	0.009	0.011	0.012	0.013	0.014	0.014	0.015	0.015
Pipeline Natural Gas	0.066	0.067	0.063	0.059	0.056	0.053	0.053	0.054	0.051	0.053	0.054	0.054	0.053
Natural Gas Subtotal	1.934	2.172	1.875	2.086	2.151	2.211	2.247	2.278	2.242	2.368	2.423	2.461	2.433
Metallurgical Coal	0.066	0.057	0.062	0.063	0.062	0.061	0.061	0.060	0.059	0.058	0.057	0.056	0.055
Steam Coal	4.321	4.405	4.490	4.506	4.643	4.814	5.020	5.118	5.189	5.219	5.282	5.306	5.321
Net Coal Coke Imports	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
Coal Subtotal	4.388	4.464	4.555	4.573	4.709	4.879	5.085	5.182	5.253	5.282	5.344	5.366	5.381
Nuclear Power	2.020	2.050	2.029	2.010	2.080	2.082	2.083	2.086	2.087	2.092	2.093	2.112	2.132
Renewable Energy 16/	0.568	0.614	0.636	0.664	0.688	0.697	0.708	0.715	0.724	0.734	0.750	0.760	0.784
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	15.162	15.463	15.326	15.599	16.072	16.473	16.871	17.181	17.328	17.600	17.920	18.243	18.453
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	10.355	10.536	10.642	10.921	11.211	11.464	11.708	11.961	12.195	12.475	12.748	13.016	13.274
Total Energy Use	15.162	15.463	15.326	15.599	16.072	16.473	16.871	17.181	17.328	17.600	17.920	18.243	18.453
Population (millions)	52.383	53.107	53.788	54.445	55.108	55.773	56.443	57.122	57.810	58.502	59.201	59.909	60.627

Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	0.065	0.064	0.063	0.061	0.059	0.058	0.057	0.055	0.053	0.052	0.050	0.048	-1.7%
Kerosene	0.025	0.025	0.025	0.024	0.024	0.024	0.023	0.023	0.022	0.022	0.022	0.021	1.3%
Liquefied Petroleum Gas	0.094	0.095	0.097	0.097	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.106	1.0%
Petroleum Subtotal	0.184	0.184	0.184	0.183	0.182	0.181	0.181	0.179	0.178	0.177	0.177	0.175	0.1%
Natural Gas	0.595	0.602	0.612	0.619	0.629	0.638	0.649	0.655	0.663	0.673	0.683	0.689	1.7%
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	-0.5%
Renewable Energy 1/	0.059	0.059	0.059	0.059	0.059	0.059	0.060	0.060	0.060	0.060	0.060	0.060	0.1%
Electricity	1.370	1.394	1.420	1.441	1.465	1.490	1.518	1.537	1.561	1.586	1.616	1.637	1.8%
Delivered Energy	2.210	2.241	2.278	2.304	2.337	2.370	2.409	2.433	2.464	2.498	2.538	2.563	1.6%
Electricity Related Losses	2.102	2.079	2.064	2.037	2.004	1.964	1.957	1.942	1.947	1.939	1.932	1.901	-0.4%
Total	4.313	4.320	4.342	4.341	4.340	4.334	4.366	4.375	4.411	4.436	4.469	4.464	0.6%
Commercial													
Distillate Fuel	0.118	0.120	0.122	0.124	0.125	0.127	0.129	0.130	0.132	0.133	0.135	0.137	2.1%
Residual Fuel	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	2.4%
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	1.9%
Liquefied Petroleum Gas	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.6%
Motor Gasoline 2/	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.3%
Petroleum Subtotal	0.154	0.156	0.158	0.160	0.162	0.164	0.166	0.168	0.169	0.171	0.173	0.175	1.8%
Natural Gas	0.427	0.432	0.440	0.452	0.466	0.482	0.495	0.503	0.510	0.517	0.524	0.536	2.1%
Coal	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.2%
Renewable Energy 3/	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.0%
Electricity	1.322	1.354	1.388	1.432	1.482	1.533	1.580	1.619	1.651	1.682	1.718	1.764	2.8%
Delivered Energy	1.940	1.979	2.024	2.081	2.148	2.216	2.277	2.327	2.368	2.407	2.452	2.512	2.5%
Electricity Related Losses	2.029	2.019	2.017	2.024	2.027	2.021	2.035	2.045	2.059	2.056	2.053	2.048	0.6%
Total	3.969	3.998	4.041	4.105	4.174	4.237	4.313	4.372	4.427	4.463	4.506	4.559	1.5%
Industrial 4/													
Distillate Fuel	0.198	0.201	0.203	0.205	0.207	0.210	0.213	0.216	0.219	0.222	0.225	0.229	1.0%
Liquefied Petroleum Gas	0.044	0.044	0.045	0.046	0.046	0.047	0.048	0.048	0.049	0.049	0.051	0.051	1.2%
Petrochemical Feedstocks	0.155	0.157	0.159	0.162	0.164	0.166	0.168	0.170	0.172	0.174	0.176	0.179	1.3%
Residual Fuel	0.091	0.092	0.093	0.093	0.093	0.094	0.095	0.097	0.097	0.097	0.098	0.099	0.7%
Motor Gasoline 2/	0.024	0.024	0.025	0.025	0.025	0.025	0.026	0.026	0.026	0.027	0.027	0.027	0.9%
Other Petroleum 5/	0.360	0.365	0.369	0.373	0.380	0.384	0.390	0.395	0.401	0.408	0.412	0.419	0.7%
Petroleum Subtotal	0.871	0.884	0.893	0.903	0.917	0.926	0.940	0.953	0.964	0.977	0.989	1.004	0.9%
Natural Gas	0.656	0.660	0.670	0.681	0.694	0.704	0.713	0.719	0.730	0.742	0.754	0.765	1.5%
Lease and Plant Fuel 6/	0.015	0.016	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.7%
Natural Gas Subtotal	0.671	0.676	0.686	0.697	0.710	0.721	0.730	0.735	0.746	0.758	0.769	0.780	1.4%
Metallurgical Coal	0.053	0.052	0.051	0.050	0.049	0.048	0.046	0.045	0.044	0.043	0.042	0.041	-1.4%
Steam Coal	0.277	0.277	0.278	0.279	0.280	0.281	0.281	0.282	0.283	0.284	0.285	0.287	0.0%
Net Coal Coke Imports	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.009	5.3%
Coal Subtotal	0.335	0.335	0.334	0.335	0.335	0.335	0.335	0.335	0.335	0.336	0.336	0.337	-0.1%
Renewable Energy 7/	0.399	0.405	0.411	0.418	0.425	0.431	0.437	0.443	0.449	0.456	0.463	0.471	1.7%
Electricity	0.640	0.651	0.663	0.676	0.689	0.700	0.712	0.722	0.734	0.748	0.761	0.777	1.7%
Delivered Energy	2.917	2.951	2.987	3.030	3.077	3.112	3.153	3.186	3.228	3.274	3.318	3.368	1.2%
Electricity Related Losses	0.983	0.972	0.963	0.956	0.943	0.923	0.917	0.912	0.915	0.914	0.910	0.902	-0.5%
Total	3.900	3.923	3.951	3.986	4.020	4.035	4.070	4.098	4.143	4.187	4.228	4.269	0.8%
Transportation													
Distillate Fuel 8/	1.309	1.341	1.375	1.411	1.446	1.478	1.514	1.548	1.587	1.629	1.672	1.720	2.9%



Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.478	0.486	0.494	0.503	0.513	0.521	0.529	0.536	0.543	0.549	0.555	0.560	1.9%
Motor Gasoline 2/	4.403	4.484	4.565	4.644	4.726	4.807	4.892	4.982	5.075	5.173	5.278	5.391	2.2%
Residual Fuel	0.102	0.102	0.103	0.104	0.104	0.105	0.106	0.106	0.107	0.108	0.108	0.109	1.0%
Liquefied Petroleum Gas	0.013	0.013	0.013	0.014	0.014	0.015	0.015	0.015	0.016	0.016	0.017	0.017	7.5%
Other Petroleum 10/	0.050	0.051	0.052	0.053	0.055	0.056	0.057	0.058	0.059	0.061	0.062	0.063	1.7%
Petroleum Subtotal	6.354	6.478	6.602	6.729	6.858	6.982	7.113	7.246	7.387	7.536	7.692	7.861	2.3%
Pipeline Fuel Natural Gas	0.054	0.053	0.052	0.053	0.054	0.055	0.055	0.053	0.052	0.052	0.052	0.052	-1.1%
Compressed Natural Gas	0.013	0.014	0.014	0.015	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.019	9.1%
Renewable Energy (E85) 11/	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	8.1%
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	N/A
Electricity	0.019	0.019	0.020	0.020	0.021	0.021	0.022	0.022	0.023	0.023	0.024	0.024	2.4%
Delivered Energy	6.440	6.565	6.688	6.817	6.948	7.076	7.207	7.339	7.480	7.630	7.788	7.958	2.3%
Electricity Related Losses	0.029	0.029	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.2%
Total	6.469	6.593	6.717	6.846	6.977	7.103	7.235	7.367	7.508	7.658	7.816	7.986	2.2%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.690	1.726	1.762	1.800	1.838	1.873	1.912	1.949	1.990	2.036	2.083	2.135	2.4%
Kerosene	0.035	0.035	0.035	0.034	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	1.7%
Jet Fuel 9/	0.478	0.486	0.494	0.503	0.513	0.521	0.529	0.536	0.543	0.549	0.555	0.560	1.9%
Liquefied Petroleum Gas	0.166	0.168	0.171	0.173	0.175	0.178	0.180	0.182	0.184	0.186	0.189	0.191	1.3%
Motor Gasoline 2/	4.436	4.518	4.598	4.678	4.760	4.842	4.927	5.017	5.111	5.209	5.315	5.428	2.2%
Petrochemical Feedstocks	0.155	0.157	0.159	0.162	0.164	0.166	0.168	0.170	0.172	0.174	0.176	0.179	1.3%
Residual Fuel	0.197	0.200	0.201	0.202	0.203	0.204	0.206	0.209	0.209	0.210	0.211	0.213	0.9%
Other Petroleum 12/	0.406	0.412	0.417	0.423	0.431	0.435	0.443	0.450	0.457	0.464	0.470	0.478	0.8%
Petroleum Subtotal	7.564	7.702	7.837	7.975	8.118	8.254	8.399	8.545	8.698	8.861	9.031	9.215	2.0%
Natural Gas	1.690	1.708	1.736	1.767	1.805	1.839	1.873	1.893	1.921	1.949	1.979	2.009	1.8%
Lease and Plant Fuel 6/	0.015	0.016	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.7%
Pipeline Natural Gas	0.054	0.053	0.052	0.053	0.054	0.055	0.055	0.053	0.052	0.052	0.052	0.052	-1.1%
Natural Gas Subtotal	1.759	1.776	1.803	1.836	1.875	1.911	1.944	1.963	1.989	2.017	2.047	2.075	1.7%
Metallurgical Coal	0.053	0.052	0.051	0.050	0.049	0.048	0.046	0.045	0.044	0.043	0.042	0.041	-1.4%
Steam Coal	0.296	0.296	0.297	0.298	0.299	0.299	0.300	0.301	0.302	0.303	0.304	0.305	0.0%
Net Coal Coke Imports	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.009	5.3%
Coal Subtotal	0.354	0.354	0.353	0.353	0.354	0.353	0.354	0.353	0.354	0.355	0.355	0.356	-0.1%
Renewable Energy 13/	0.479	0.485	0.492	0.499	0.506	0.511	0.518	0.523	0.530	0.537	0.544	0.552	1.4%
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	N/A
Electricity	3.351	3.418	3.491	3.569	3.657	3.744	3.831	3.900	3.969	4.039	4.119	4.202	2.2%
Delivered Energy	13.508	13.735	13.977	14.232	14.510	14.774	15.047	15.285	15.540	15.809	16.096	16.401	1.9%
Electricity Related Losses	5.143	5.099	5.073	5.046	5.001	4.935	4.936	4.927	4.949	4.936	4.923	4.878	0.0%
Total	18.651	18.834	19.050	19.278	19.511	19.710	19.983	20.212	20.489	20.745	21.019	21.279	1.4%
Electric Generators 14/													
Distillate Fuel	0.229	0.263	0.243	0.228	0.202	0.198	0.179	0.197	0.170	0.148	0.162	0.175	3.1%
Residual Fuel	0.081	0.085	0.092	0.096	0.092	0.085	0.087	0.083	0.073	0.065	0.065	0.066	-6.3%
Petroleum Subtotal	0.310	0.348	0.335	0.324	0.294	0.283	0.266	0.280	0.243	0.213	0.228	0.241	-2.0%
Natural Gas	0.663	0.622	0.665	0.714	0.751	0.767	0.758	0.679	0.684	0.667	0.663	0.642	-0.7%
Steam Coal	5.038	5.045	5.063	5.072	5.104	5.119	5.232	5.359	5.484	5.590	5.649	5.699	1.4%
Nuclear Power	2.163	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	0.3%
Renewable Energy/Other 15/	0.321	0.328	0.328	0.332	0.335	0.338	0.339	0.336	0.334	0.332	0.329	0.324	1.8%
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	-4.6%
Total	8.494	8.517	8.564	8.615	8.658	8.680	8.768	8.827	8.918	8.975	9.042	9.079	0.8%
Total Energy Consumption													
Distillate Fuel	1.919	1.989	2.005	2.028	2.040	2.071	2.091	2.146	2.161	2.184	2.245	2.310	2.5%

Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Kerosene	0.035	0.035	0.035	0.034	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	1.7%
Jet Fuel 9/	0.478	0.486	0.494	0.503	0.513	0.521	0.529	0.536	0.543	0.549	0.555	0.560	1.9%
Liquefied Petroleum Gas	0.166	0.168	0.171	0.173	0.175	0.178	0.180	0.182	0.184	0.186	0.189	0.191	1.3%
Motor Gasoline 2/	4.436	4.518	4.598	4.678	4.760	4.842	4.927	5.017	5.111	5.209	5.315	5.428	2.2%
Petrochemical Feedstocks	0.155	0.157	0.159	0.162	0.164	0.166	0.168	0.170	0.172	0.174	0.176	0.179	1.3%
Residual Fuel	0.278	0.285	0.293	0.297	0.295	0.289	0.293	0.291	0.282	0.275	0.277	0.279	-2.2%
Other Petroleum 12/	0.406	0.412	0.417	0.423	0.431	0.435	0.443	0.450	0.457	0.464	0.470	0.478	0.8%
Petroleum Subtotal	7.874	8.050	8.172	8.299	8.412	8.537	8.665	8.825	8.941	9.074	9.259	9.457	1.9%
Natural Gas	2.353	2.330	2.401	2.481	2.556	2.607	2.631	2.573	2.606	2.617	2.643	2.652	1.0%
Lease and Plant Fuel 6/	0.015	0.016	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.7%
Pipeline Natural Gas	0.054	0.053	0.052	0.053	0.054	0.055	0.055	0.053	0.052	0.052	0.052	0.052	-1.1%
Natural Gas Subtotal	2.422	2.399	2.468	2.550	2.627	2.678	2.703	2.642	2.673	2.685	2.710	2.718	1.0%
Metallurgical Coal	0.053	0.052	0.051	0.050	0.049	0.048	0.046	0.045	0.044	0.043	0.042	0.041	-1.4%
Steam Coal	5.333	5.341	5.360	5.370	5.404	5.418	5.532	5.660	5.786	5.893	5.953	6.004	1.4%
Net Coal Coke Imports	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.009	5.3%
Coal Subtotal	5.392	5.399	5.416	5.425	5.458	5.472	5.585	5.713	5.838	5.944	6.004	6.055	1.3%
Nuclear Power	2.163	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	0.3%
Renewable Energy 16/	0.800	0.814	0.820	0.831	0.841	0.849	0.857	0.859	0.863	0.868	0.873	0.876	1.6%
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	-4.6%
Total	18.651	18.834	19.050	19.278	19.511	19.710	19.983	20.212	20.489	20.745	21.019	21.279	1.4%
Energy Use & Related Statistics													
Delivered Energy Use	13.508	13.735	13.977	14.232	14.510	14.774	15.047	15.285	15.540	15.809	16.096	16.401	1.9%
Total Energy Use	18.651	18.834	19.050	19.278	19.511	19.710	19.983	20.212	20.489	20.745	21.019	21.279	1.4%
Population (millions)	61.342	62.056	62.772	63.491	64.212	64.933	65.655	66.379	67.107	67.838	68.572	69.317	1.2%

Table 5. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

South Atlantic

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East South Central

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	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	0.010	0.007	0.008	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Liquefied Petroleum Gas	0.054	0.055	0.053	0.053	0.053	0.054	0.055	0.055	0.055	0.056	0.056	0.057	0.057
Petroleum Subtotal	0.068	0.064	0.064	0.068	0.068	0.069	0.069	0.070	0.070	0.070	0.070	0.071	0.071
Natural Gas	0.208	0.211	0.223	0.227	0.230	0.234	0.238	0.241	0.244	0.249	0.251	0.254	0.254
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/	0.020	0.024	0.026	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026
Electricity	0.359	0.374	0.366	0.368	0.371	0.374	0.379	0.385	0.390	0.396	0.401	0.407	0.410
Delivered Energy	0.655	0.674	0.680	0.690	0.695	0.704	0.712	0.723	0.731	0.741	0.750	0.758	0.762
Electricity Related Losses	0.947	0.965	0.993	1.002	1.003	1.013	1.018	1.023	0.999	1.016	1.018	1.023	1.053
Total	1.603	1.639	1.673	1.691	1.698	1.716	1.731	1.746	1.730	1.757	1.768	1.781	1.815
Commercial													
Distillate Fuel	0.019	0.020	0.023	0.022	0.024	0.025	0.025	0.026	0.027	0.027	0.028	0.028	0.029
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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
Liquefied Petroleum Gas	0.008	0.008	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
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
Petroleum Subtotal	0.030	0.030	0.033	0.033	0.034	0.035	0.036	0.037	0.037	0.038	0.038	0.039	0.039
Natural Gas	0.138	0.136	0.144	0.150	0.157	0.163	0.167	0.172	0.177	0.183	0.187	0.190	0.193
Coal	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Renewable Energy 3/	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
Electricity	0.267	0.277	0.275	0.290	0.302	0.312	0.322	0.333	0.344	0.355	0.365	0.375	0.386
Delivered Energy	0.450	0.458	0.469	0.489	0.510	0.526	0.542	0.558	0.575	0.592	0.607	0.621	0.634
Electricity Related Losses	0.705	0.715	0.747	0.788	0.815	0.844	0.865	0.884	0.881	0.911	0.927	0.944	0.990
Total	1.155	1.173	1.216	1.278	1.325	1.369	1.407	1.442	1.455	1.502	1.534	1.564	1.625
Industrial 4/													
Distillate Fuel	0.094	0.089	0.090	0.088	0.089	0.090	0.090	0.091	0.090	0.091	0.092	0.094	0.096
Liquefied Petroleum Gas	0.036	0.038	0.036	0.037	0.037	0.038	0.039	0.039	0.039	0.040	0.040	0.041	0.042
Petrochemical Feedstocks	0.093	0.098	0.102	0.103	0.104	0.105	0.107	0.108	0.107	0.108	0.110	0.111	0.113
Residual Fuel	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Motor Gasoline 2/	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015
Other Petroleum 5/	0.323	0.304	0.305	0.293	0.310	0.315	0.319	0.322	0.317	0.316	0.315	0.320	0.327
Petroleum Subtotal	0.562	0.547	0.552	0.539	0.560	0.568	0.575	0.580	0.573	0.575	0.578	0.587	0.599
Natural Gas	0.477	0.464	0.460	0.482	0.500	0.507	0.515	0.519	0.529	0.542	0.554	0.558	0.564
Lease and Plant Fuel 6/	0.018	0.030	0.015	0.016	0.017	0.019	0.021	0.022	0.024	0.026	0.026	0.027	0.027
Natural Gas Subtotal	0.496	0.494	0.476	0.498	0.517	0.526	0.535	0.542	0.552	0.568	0.579	0.585	0.591
Metallurgical Coal	0.091	0.079	0.087	0.088	0.086	0.085	0.084	0.083	0.083	0.081	0.079	0.077	0.076
Steam Coal	0.190	0.183	0.175	0.174	0.175	0.175	0.176	0.175	0.175	0.176	0.177	0.177	0.178
Net Coal Coke Imports	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007
Coal Subtotal	0.284	0.266	0.265	0.266	0.267	0.266	0.265	0.264	0.264	0.263	0.262	0.261	0.261
Renewable Energy 7/	0.181	0.184	0.184	0.190	0.196	0.200	0.203	0.206	0.210	0.215	0.220	0.226	0.231
Electricity	0.379	0.389	0.383	0.394	0.403	0.412	0.420	0.427	0.433	0.440	0.448	0.456	0.465
Delivered Energy	1.902	1.880	1.860	1.887	1.943	1.972	1.999	2.019	2.032	2.060	2.088	2.115	2.147
Electricity Related Losses	1.001	1.005	1.039	1.070	1.089	1.113	1.129	1.135	1.109	1.130	1.138	1.148	1.195
Total	2.903	2.885	2.899	2.957	3.033	3.085	3.127	3.154	3.142	3.190	3.226	3.262	3.342
Transportation													
Distillate Fuel 8/	0.468	0.451	0.452	0.468	0.484	0.497	0.509	0.520	0.532	0.545	0.558	0.570	0.583

Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.171	0.166	0.161	0.165	0.169	0.174	0.178	0.182	0.186	0.190	0.194	0.198	0.202
Motor Gasoline 2/	1.138	1.169	1.193	1.233	1.266	1.292	1.312	1.334	1.355	1.377	1.398	1.419	1.442
Residual Fuel	0.014	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Liquefied Petroleum Gas	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004
Other Petroleum 10/	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.019
Petroleum Subtotal	1.807	1.818	1.838	1.897	1.953	1.997	2.033	2.070	2.108	2.147	2.185	2.223	2.263
Pipeline Fuel Natural Gas	0.081	0.082	0.093	0.092	0.092	0.091	0.091	0.089	0.088	0.092	0.090	0.091	0.093
Compressed Natural Gas	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.005
Renewable Energy (E85) 11/	0.000	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
Electricity	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006
Delivered Energy	1.893	1.905	1.937	1.996	2.052	2.095	2.132	2.168	2.205	2.248	2.285	2.325	2.367
Electricity Related Losses	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.013	0.014	0.014	0.014	0.014
Total	1.905	1.917	1.950	2.009	2.065	2.109	2.146	2.181	2.218	2.262	2.299	2.339	2.381
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.585	0.563	0.569	0.582	0.600	0.615	0.628	0.640	0.651	0.666	0.681	0.696	0.711
Kerosene	0.013	0.008	0.010	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.014	0.014	0.014
Jet Fuel 9/	0.171	0.166	0.161	0.165	0.169	0.174	0.178	0.182	0.186	0.190	0.194	0.198	0.202
Liquefied Petroleum Gas	0.099	0.102	0.098	0.100	0.101	0.103	0.104	0.105	0.106	0.107	0.108	0.109	0.111
Motor Gasoline 2/	1.153	1.184	1.208	1.248	1.282	1.307	1.328	1.349	1.371	1.392	1.414	1.435	1.458
Petrochemical Feedstocks	0.093	0.098	0.102	0.103	0.104	0.105	0.107	0.108	0.107	0.108	0.110	0.111	0.113
Residual Fuel	0.018	0.016	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Other Petroleum 12/	0.337	0.321	0.321	0.310	0.326	0.331	0.335	0.338	0.333	0.332	0.331	0.336	0.344
Petroleum Subtotal	2.466	2.459	2.486	2.537	2.615	2.669	2.713	2.756	2.787	2.830	2.871	2.919	2.972
Natural Gas	0.824	0.812	0.829	0.861	0.889	0.906	0.922	0.936	0.954	0.978	0.997	1.007	1.016
Lease and Plant Fuel 6/	0.018	0.030	0.015	0.016	0.017	0.019	0.021	0.022	0.024	0.026	0.026	0.027	0.027
Pipeline Natural Gas	0.081	0.082	0.093	0.092	0.092	0.091	0.091	0.089	0.088	0.092	0.090	0.091	0.093
Natural Gas Subtotal	0.924	0.923	0.938	0.970	0.998	1.016	1.034	1.047	1.066	1.095	1.113	1.125	1.136
Metallurgical Coal	0.091	0.079	0.087	0.088	0.086	0.085	0.084	0.083	0.083	0.081	0.079	0.077	0.076
Steam Coal	0.203	0.197	0.189	0.188	0.190	0.189	0.190	0.190	0.189	0.190	0.191	0.191	0.192
Net Coal Coke Imports	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007
Coal Subtotal	0.297	0.279	0.279	0.280	0.281	0.280	0.279	0.278	0.278	0.277	0.276	0.276	0.275
Renewable Energy 13/	0.204	0.211	0.213	0.219	0.225	0.229	0.232	0.235	0.239	0.244	0.250	0.255	0.261
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
Electricity	1.009	1.045	1.029	1.057	1.081	1.103	1.127	1.151	1.172	1.196	1.220	1.244	1.267
Delivered Energy	4.901	4.917	4.946	5.062	5.200	5.297	5.385	5.468	5.542	5.642	5.730	5.819	5.911
Electricity Related Losses	2.665	2.696	2.791	2.873	2.920	2.983	3.026	3.055	3.003	3.070	3.096	3.128	3.253
Total	7.566	7.613	7.737	7.936	8.120	8.280	8.411	8.523	8.545	8.712	8.826	8.946	9.163
Electric Generators 14/													
Distillate Fuel	0.012	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.003	0.003	0.003
Residual Fuel	0.052	0.004	0.000	0.000	0.001	0.002	0.003	0.005	0.007	0.009	0.011	0.012	0.012
Petroleum Subtotal	0.064	0.005	0.006	0.006	0.007	0.008	0.008	0.011	0.009	0.012	0.014	0.015	0.015
Natural Gas	0.232	0.337	0.379	0.468	0.459	0.450	0.451	0.478	0.401	0.473	0.511	0.546	0.676
Steam Coal	2.477	2.451	2.498	2.480	2.543	2.625	2.688	2.713	2.757	2.773	2.783	2.792	2.800
Nuclear Power	0.717	0.725	0.715	0.728	0.743	0.754	0.755	0.755	0.758	0.758	0.758	0.769	0.779
Renewable Energy/Other 15/	0.183	0.222	0.222	0.249	0.249	0.249	0.249	0.249	0.249	0.250	0.250	0.250	0.250
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	3.674	3.741	3.821	3.930	4.001	4.086	4.152	4.206	4.175	4.265	4.316	4.372	4.519
Total Energy Consumption													
Distillate Fuel	0.597	0.564	0.574	0.587	0.606	0.621	0.634	0.646	0.654	0.669	0.684	0.699	0.714

Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.013	0.008	0.010	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.014	0.014	0.014
Jet Fuel 9/	0.171	0.166	0.161	0.165	0.169	0.174	0.178	0.182	0.186	0.190	0.194	0.198	0.202
Liquefied Petroleum Gas	0.099	0.102	0.098	0.100	0.101	0.103	0.104	0.105	0.106	0.107	0.108	0.109	0.111
Motor Gasoline 2/	1.153	1.184	1.208	1.248	1.282	1.307	1.328	1.349	1.371	1.392	1.414	1.435	1.458
Petrochemical Feedstocks	0.093	0.098	0.102	0.103	0.104	0.105	0.107	0.108	0.107	0.108	0.110	0.111	0.113
Residual Fuel	0.070	0.020	0.018	0.018	0.020	0.021	0.022	0.024	0.026	0.028	0.030	0.031	0.031
Other Petroleum 12/	0.337	0.321	0.321	0.310	0.326	0.331	0.335	0.338	0.333	0.332	0.331	0.336	0.344
Petroleum Subtotal	2.531	2.464	2.492	2.543	2.622	2.676	2.722	2.767	2.797	2.841	2.885	2.935	2.988
Natural Gas	1.057	1.149	1.208	1.329	1.348	1.356	1.374	1.414	1.355	1.451	1.508	1.553	1.692
Lease and Plant Fuel 6/	0.018	0.030	0.015	0.016	0.017	0.019	0.021	0.022	0.024	0.026	0.026	0.027	0.027
Pipeline Natural Gas	0.081	0.082	0.093	0.092	0.092	0.091	0.091	0.089	0.088	0.092	0.090	0.091	0.093
Natural Gas Subtotal	1.156	1.260	1.317	1.437	1.457	1.466	1.485	1.525	1.467	1.568	1.624	1.671	1.812
Metallurgical Coal	0.091	0.079	0.087	0.088	0.086	0.085	0.084	0.083	0.083	0.081	0.079	0.077	0.076
Steam Coal	2.680	2.648	2.687	2.668	2.732	2.815	2.878	2.902	2.946	2.963	2.974	2.983	2.992
Net Coal Coke Imports	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007
Coal Subtotal	2.774	2.731	2.778	2.760	2.824	2.905	2.968	2.991	3.035	3.050	3.060	3.068	3.074
Nuclear Power	0.717	0.725	0.715	0.728	0.743	0.754	0.755	0.755	0.758	0.758	0.758	0.769	0.779
Renewable Energy 16/	0.388	0.433	0.435	0.468	0.474	0.478	0.482	0.485	0.489	0.494	0.499	0.505	0.510
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	7.566	7.613	7.737	7.936	8.120	8.280	8.411	8.523	8.545	8.712	8.826	8.946	9.163
Energy Use & Related Statistics													
Delivered Energy Use	4.901	4.917	4.946	5.062	5.200	5.297	5.385	5.468	5.542	5.642	5.730	5.819	5.911
Total Energy Use	7.566	7.613	7.737	7.936	8.120	8.280	8.411	8.523	8.545	8.712	8.826	8.946	9.163
Population (millions)	17.325	17.480	17.618	17.730	17.824	17.916	18.007	18.096	18.185	18.273	18.360	18.448	18.537

Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	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%
Kerosene	0.011	0.011	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.009	0.008	0.9%
Liquefied Petroleum Gas	0.057	0.058	0.058	0.059	0.059	0.060	0.060	0.061	0.061	0.062	0.063	0.063	0.6%
Petroleum Subtotal	0.071	0.071	0.072	0.072	0.072	0.072	0.073	0.073	0.073	0.074	0.074	0.074	0.6%
Natural Gas	0.256	0.257	0.260	0.262	0.264	0.267	0.269	0.270	0.272	0.275	0.278	0.279	1.2%
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	-0.3%
Renewable Energy 1/	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.5%
Electricity	0.414	0.418	0.423	0.426	0.431	0.435	0.441	0.444	0.448	0.453	0.459	0.462	0.9%
Delivered Energy	0.769	0.774	0.783	0.787	0.794	0.802	0.811	0.815	0.821	0.829	0.838	0.843	1.0%
Electricity Related Losses	1.084	1.108	1.138	1.150	1.197	1.260	1.316	1.382	1.455	1.516	1.559	1.601	2.2%
Total	1.852	1.883	1.920	1.937	1.992	2.061	2.127	2.197	2.276	2.345	2.398	2.444	1.8%
Commercial													
Distillate Fuel	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.032	0.033	0.033	0.033	2.3%
Residual Fuel	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%
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	1.2%
Liquefied Petroleum Gas	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.2%
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	0.2%
Petroleum Subtotal	0.040	0.041	0.041	0.042	0.042	0.042	0.043	0.043	0.043	0.043	0.044	0.044	1.7%
Natural Gas	0.196	0.198	0.201	0.203	0.206	0.209	0.210	0.211	0.211	0.212	0.212	0.210	1.9%
Coal	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%
Renewable Energy 3/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.0%
Electricity	0.396	0.405	0.414	0.424	0.433	0.441	0.449	0.456	0.463	0.469	0.474	0.477	2.4%
Delivered Energy	0.648	0.661	0.673	0.685	0.697	0.708	0.718	0.726	0.734	0.740	0.745	0.748	2.2%
Electricity Related Losses	1.035	1.074	1.114	1.143	1.202	1.276	1.340	1.421	1.503	1.570	1.611	1.654	3.7%
Total	1.684	1.734	1.787	1.828	1.899	1.984	2.058	2.147	2.237	2.311	2.356	2.401	3.2%
Industrial 4/													
Distillate Fuel	0.098	0.099	0.100	0.101	0.102	0.103	0.105	0.107	0.108	0.110	0.111	0.113	1.0%
Liquefied Petroleum Gas	0.042	0.042	0.043	0.044	0.044	0.045	0.046	0.046	0.047	0.047	0.048	0.049	1.1%
Petrochemical Feedstocks	0.114	0.115	0.117	0.119	0.121	0.122	0.124	0.125	0.126	0.128	0.129	0.131	1.3%
Residual Fuel	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	1.7%
Motor Gasoline 2/	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.9%
Other Petroleum 5/	0.334	0.338	0.342	0.344	0.351	0.354	0.360	0.366	0.372	0.376	0.380	0.383	1.0%
Petroleum Subtotal	0.609	0.616	0.623	0.630	0.640	0.647	0.657	0.666	0.675	0.684	0.692	0.699	1.1%
Natural Gas	0.567	0.570	0.578	0.586	0.596	0.604	0.611	0.615	0.624	0.634	0.644	0.653	1.5%
Lease and Plant Fuel 6/	0.027	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.029	0.029	0.028	0.028	-0.3%
Natural Gas Subtotal	0.594	0.599	0.606	0.615	0.626	0.634	0.641	0.645	0.653	0.663	0.672	0.681	1.4%
Metallurgical Coal	0.074	0.072	0.071	0.069	0.068	0.066	0.065	0.063	0.062	0.060	0.059	0.057	-1.4%
Steam Coal	0.179	0.179	0.179	0.180	0.181	0.181	0.181	0.182	0.182	0.183	0.184	0.185	0.0%
Net Coal Coke Imports	0.007	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.011	0.011	0.012	0.013	5.3%
Coal Subtotal	0.260	0.259	0.258	0.257	0.257	0.256	0.256	0.255	0.255	0.255	0.255	0.255	-0.2%
Renewable Energy 7/	0.236	0.241	0.246	0.251	0.256	0.260	0.264	0.268	0.273	0.277	0.282	0.287	2.0%
Electricity	0.473	0.480	0.489	0.498	0.507	0.514	0.523	0.530	0.539	0.549	0.558	0.570	1.7%
Delivered Energy	2.172	2.196	2.222	2.251	2.286	2.311	2.340	2.364	2.394	2.428	2.459	2.492	1.2%
Electricity Related Losses	1.236	1.273	1.314	1.344	1.409	1.488	1.560	1.650	1.749	1.837	1.898	1.974	3.0%
Total	3.408	3.468	3.535	3.595	3.695	3.800	3.900	4.014	4.143	4.265	4.357	4.467	1.9%
Transportation													
Distillate Fuel 8/	0.594	0.604	0.615	0.626	0.637	0.647	0.657	0.667	0.680	0.693	0.707	0.723	2.1%

Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.206	0.209	0.212	0.215	0.218	0.221	0.224	0.226	0.228	0.230	0.231	0.232	1.5%
Motor Gasoline 2/	1.460	1.477	1.494	1.511	1.528	1.545	1.562	1.581	1.601	1.623	1.646	1.671	1.6%
Residual Fuel	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%
Liquefied Petroleum Gas	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	6.1%
Other Petroleum 10/	0.020	0.020	0.020	0.021	0.021	0.021	0.022	0.022	0.022	0.023	0.023	0.024	1.2%
Petroleum Subtotal	2.296	2.327	2.357	2.390	2.421	2.451	2.482	2.514	2.548	2.585	2.624	2.668	1.7%
Pipeline Fuel Natural Gas	0.092	0.093	0.091	0.092	0.095	0.096	0.096	0.093	0.091	0.091	0.092	0.091	0.5%
Compressed Natural Gas	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	10.1%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.5%
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	N/A
Electricity	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	1.7%
Delivered Energy	2.400	2.431	2.461	2.495	2.529	2.560	2.591	2.621	2.654	2.690	2.731	2.774	1.6%
Electricity Related Losses	0.015	0.015	0.016	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.023	3.1%
Total	2.415	2.446	2.477	2.511	2.546	2.578	2.610	2.640	2.674	2.712	2.754	2.798	1.7%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.724	0.736	0.748	0.761	0.774	0.784	0.797	0.809	0.823	0.838	0.854	0.872	1.9%
Kerosene	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.012	0.012	0.012	0.012	1.6%
Jet Fuel 9/	0.206	0.209	0.212	0.215	0.218	0.221	0.224	0.226	0.228	0.230	0.231	0.232	1.5%
Liquefied Petroleum Gas	0.111	0.112	0.114	0.115	0.116	0.117	0.119	0.120	0.121	0.122	0.124	0.125	0.9%
Motor Gasoline 2/	1.477	1.494	1.511	1.528	1.545	1.562	1.579	1.599	1.619	1.640	1.664	1.690	1.6%
Petrochemical Feedstocks	0.114	0.115	0.117	0.119	0.121	0.122	0.124	0.125	0.126	0.128	0.129	0.131	1.3%
Residual Fuel	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.8%
Other Petroleum 12/	0.352	0.356	0.359	0.362	0.369	0.373	0.380	0.385	0.391	0.397	0.401	0.404	1.0%
Petroleum Subtotal	3.017	3.055	3.093	3.133	3.175	3.212	3.254	3.296	3.340	3.387	3.434	3.485	1.5%
Natural Gas	1.024	1.032	1.044	1.058	1.073	1.086	1.098	1.103	1.115	1.128	1.141	1.150	1.5%
Lease and Plant Fuel 6/	0.027	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.029	0.029	0.028	0.028	-0.3%
Pipeline Natural Gas	0.092	0.093	0.091	0.092	0.095	0.096	0.096	0.093	0.091	0.091	0.092	0.091	0.5%
Natural Gas Subtotal	1.143	1.153	1.165	1.179	1.198	1.212	1.224	1.226	1.235	1.248	1.261	1.269	1.4%
Metallurgical Coal	0.074	0.072	0.071	0.069	0.068	0.066	0.065	0.063	0.062	0.060	0.059	0.057	-1.4%
Steam Coal	0.193	0.193	0.193	0.194	0.195	0.195	0.195	0.196	0.197	0.197	0.198	0.199	0.0%
Net Coal Coke Imports	0.007	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.011	0.011	0.012	0.013	5.3%
Coal Subtotal	0.274	0.273	0.272	0.271	0.271	0.270	0.270	0.269	0.269	0.269	0.269	0.269	-0.2%
Renewable Energy 13/	0.266	0.271	0.276	0.281	0.286	0.290	0.294	0.298	0.303	0.308	0.313	0.318	1.8%
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	N/A
Electricity	1.288	1.310	1.332	1.354	1.376	1.397	1.418	1.436	1.456	1.477	1.497	1.515	1.6%
Delivered Energy	5.989	6.062	6.138	6.219	6.306	6.382	6.461	6.525	6.603	6.688	6.773	6.857	1.5%
Electricity Related Losses	3.370	3.470	3.581	3.652	3.825	4.042	4.235	4.473	4.727	4.946	5.091	5.252	2.9%
Total	9.359	9.532	9.719	9.871	10.132	10.423	10.696	10.998	11.330	11.634	11.864	12.109	2.0%
Electric Generators 14/													
Distillate Fuel	0.006	0.009	0.012	0.009	0.004	0.003	0.003	0.007	0.003	0.003	0.003	0.004	4.5%
Residual Fuel	0.013	0.011	0.014	0.013	0.012	0.012	0.012	0.012	0.010	0.011	0.011	0.011	4.5%
Petroleum Subtotal	0.018	0.020	0.026	0.022	0.016	0.015	0.015	0.019	0.014	0.014	0.014	0.015	4.5%
Natural Gas	0.844	0.959	1.081	1.159	1.159	1.131	1.132	1.097	1.065	1.015	1.039	1.024	4.9%
Steam Coal	2.767	2.773	2.778	2.797	2.999	3.264	3.477	3.765	4.076	4.366	4.506	4.697	2.9%
Nuclear Power	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.3%
Renewable Energy/Other 15/	0.250	0.250	0.250	0.250	0.250	0.249	0.249	0.249	0.249	0.249	0.250	0.253	0.6%
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	N/A
Total	4.658	4.780	4.913	5.007	5.202	5.438	5.653	5.909	6.183	6.423	6.588	6.767	2.6%
Total Energy Consumption													
Distillate Fuel	0.730	0.745	0.760	0.770	0.777	0.788	0.800	0.815	0.826	0.841	0.857	0.876	1.9%



Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Kerosene	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.012	0.012	0.012	0.012	1.6%
Jet Fuel 9/	0.206	0.209	0.212	0.215	0.218	0.221	0.224	0.226	0.228	0.230	0.231	0.232	1.5%
Liquefied Petroleum Gas	0.111	0.112	0.114	0.115	0.116	0.117	0.119	0.120	0.121	0.122	0.124	0.125	0.9%
Motor Gasoline 2/	1.477	1.494	1.511	1.528	1.545	1.562	1.579	1.599	1.619	1.640	1.664	1.690	1.6%
Petrochemical Feedstocks	0.114	0.115	0.117	0.119	0.121	0.122	0.124	0.125	0.126	0.128	0.129	0.131	1.3%
Residual Fuel	0.032	0.030	0.033	0.032	0.031	0.031	0.031	0.031	0.030	0.030	0.030	0.030	1.7%
Other Petroleum 12/	0.352	0.356	0.359	0.362	0.369	0.373	0.380	0.385	0.391	0.397	0.401	0.404	1.0%
Petroleum Subtotal	3.035	3.075	3.120	3.155	3.191	3.227	3.269	3.314	3.354	3.400	3.448	3.500	1.5%
Natural Gas	1.869	1.990	2.125	2.216	2.232	2.218	2.231	2.200	2.180	2.143	2.180	2.174	2.8%
Lease and Plant Fuel 6/	0.027	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.029	0.029	0.028	0.028	-0.3%
Pipeline Natural Gas	0.092	0.093	0.091	0.092	0.095	0.096	0.096	0.093	0.091	0.091	0.092	0.091	0.5%
Natural Gas Subtotal	1.988	2.112	2.246	2.338	2.357	2.344	2.356	2.323	2.300	2.262	2.300	2.293	2.6%
Metallurgical Coal	0.074	0.072	0.071	0.069	0.068	0.066	0.065	0.063	0.062	0.060	0.059	0.057	-1.4%
Steam Coal	2.960	2.966	2.971	2.991	3.194	3.459	3.673	3.961	4.273	4.564	4.704	4.895	2.7%
Net Coal Coke Imports	0.007	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.011	0.011	0.012	0.013	5.3%
Coal Subtotal	3.041	3.046	3.049	3.068	3.270	3.534	3.747	4.034	4.345	4.635	4.775	4.966	2.6%
Nuclear Power	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.3%
Renewable Energy 16/	0.516	0.520	0.525	0.530	0.536	0.540	0.544	0.548	0.552	0.557	0.563	0.571	1.2%
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	N/A
Total	9.359	9.532	9.719	9.871	10.132	10.423	10.696	10.998	11.330	11.634	11.864	12.109	2.0%
Energy Use & Related Statistics													
Delivered Energy Use	5.989	6.062	6.138	6.219	6.306	6.382	6.461	6.525	6.603	6.688	6.773	6.857	1.5%
Total Energy Use	9.359	9.532	9.719	9.871	10.132	10.423	10.696	10.998	11.330	11.634	11.864	12.109	2.0%
Population (millions)	18.623	18.708	18.793	18.878	18.962	19.047	19.131	19.216	19.302	19.389	19.477	19.565	0.5%

Table 6. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East South Central

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West South Central

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Energy Consumption</b>													
<b>Residential</b>													
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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
Liquefied Petroleum Gas	0.023	0.023	0.022	0.022	0.022	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.025
Petroleum Subtotal	0.024	0.023	0.022	0.022	0.023	0.023	0.024	0.024	0.024	0.024	0.025	0.025	0.025
Natural Gas	0.370	0.378	0.379	0.386	0.387	0.391	0.394	0.397	0.399	0.403	0.405	0.406	0.404
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/ Electricity	0.607	0.629	0.649	0.657	0.667	0.678	0.688	0.700	0.710	0.725	0.738	0.750	0.759
Delivered Energy	1.021	1.049	1.070	1.085	1.096	1.112	1.125	1.141	1.153	1.171	1.186	1.200	1.208
Electricity Related Losses	1.302	1.355	1.139	1.144	1.160	1.168	1.152	1.171	1.206	1.230	1.248	1.262	1.265
Total	2.322	2.404	2.208	2.230	2.256	2.280	2.277	2.311	2.358	2.401	2.434	2.463	2.472
<b>Commercial</b>													
Distillate Fuel	0.028	0.027	0.031	0.030	0.031	0.031	0.032	0.033	0.033	0.033	0.033	0.034	0.034
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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
Liquefied Petroleum Gas	0.010	0.011	0.010	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Motor Gasoline 2/ Petroleum Subtotal	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
Petroleum Subtotal	0.040	0.041	0.044	0.043	0.045	0.045	0.046	0.046	0.046	0.047	0.047	0.047	0.047
Natural Gas	0.298	0.287	0.288	0.284	0.293	0.302	0.309	0.315	0.321	0.329	0.334	0.335	0.336
Coal	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 3/ Electricity	0.505	0.504	0.512	0.531	0.552	0.571	0.589	0.605	0.621	0.637	0.653	0.665	0.676
Delivered Energy	0.846	0.835	0.848	0.862	0.892	0.921	0.947	0.969	0.992	1.016	1.037	1.051	1.063
Electricity Related Losses	1.082	1.086	0.899	0.924	0.960	0.983	0.986	1.012	1.053	1.082	1.105	1.119	1.128
Total	1.928	1.922	1.747	1.786	1.852	1.904	1.933	1.981	2.045	2.098	2.142	2.170	2.191
<b>Industrial 4/</b>													
Distillate Fuel	0.245	0.232	0.236	0.229	0.232	0.233	0.234	0.236	0.234	0.237	0.241	0.245	0.250
Liquefied Petroleum Gas	1.726	1.831	1.744	1.782	1.817	1.845	1.881	1.908	1.915	1.932	1.964	1.994	2.030
Petrochemical Feedstocks	0.534	0.564	0.587	0.592	0.602	0.609	0.617	0.622	0.618	0.624	0.634	0.643	0.654
Residual Fuel	0.009	0.012	0.013	0.013	0.013	0.012	0.013	0.013	0.012	0.012	0.013	0.013	0.013
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.023	0.023	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.025
Petroleum Subtotal	1.223	1.159	1.184	1.182	1.254	1.291	1.304	1.324	1.337	1.285	1.239	1.249	1.294
Petroleum Subtotal	3.760	3.822	3.788	3.821	3.940	4.014	4.072	4.126	4.139	4.114	4.114	4.168	4.266
Natural Gas	3.191	3.092	3.070	3.208	3.240	3.292	3.351	3.378	3.436	3.556	3.671	3.713	3.754
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.537	0.776	0.431	0.415	0.444	0.472	0.507	0.539	0.570	0.611	0.613	0.616	0.616
Natural Gas Subtotal	3.728	3.868	3.501	3.623	3.684	3.765	3.858	3.916	4.006	4.167	4.284	4.328	4.370
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
Steam Coal	0.096	0.092	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.089	0.089	0.089	0.090
Net Coal Coke Imports Coal 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
Coal Subtotal	0.096	0.092	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.089	0.089	0.089	0.090
Renewable Energy 7/ Electricity	0.178	0.182	0.182	0.189	0.196	0.201	0.204	0.208	0.213	0.219	0.225	0.231	0.238
Delivered Energy	0.511	0.525	0.517	0.531	0.539	0.554	0.567	0.575	0.580	0.588	0.599	0.608	0.620
Electricity Related Losses	8.273	8.488	8.077	8.251	8.448	8.622	8.789	8.914	9.025	9.177	9.310	9.425	9.582
Total	1.096	1.131	0.908	0.925	0.939	0.955	0.949	0.961	0.984	0.999	1.013	1.023	1.033
Total	9.368	9.619	8.985	9.177	9.387	9.577	9.738	9.874	10.010	10.175	10.323	10.448	10.615
<b>Transportation</b>													
Distillate Fuel 8/	0.848	0.817	0.826	0.860	0.895	0.925	0.952	0.977	1.005	1.035	1.066	1.095	1.125

Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.842	0.821	0.799	0.821	0.850	0.879	0.902	0.930	0.954	0.981	1.004	1.032	1.057
Motor Gasoline 2/	1.942	1.996	2.038	2.114	2.180	2.236	2.284	2.334	2.386	2.438	2.488	2.541	2.595
Residual Fuel	0.299	0.255	0.277	0.279	0.281	0.282	0.283	0.284	0.286	0.287	0.288	0.289	0.291
Liquefied Petroleum Gas	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.007	0.007
Other Petroleum 10/	0.027	0.037	0.037	0.037	0.038	0.038	0.039	0.039	0.040	0.040	0.041	0.041	0.042
Petroleum Subtotal	3.959	3.927	3.980	4.115	4.247	4.364	4.465	4.570	4.675	4.787	4.894	5.005	5.116
Pipeline Fuel Natural Gas	0.154	0.156	0.154	0.153	0.153	0.153	0.150	0.147	0.149	0.154	0.156	0.158	0.160
Compressed Natural Gas	0.001	0.002	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.008
Renewable Energy (E85) 11/	0.000	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
Electricity	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.011	0.011
Delivered Energy	4.122	4.093	4.145	4.280	4.413	4.530	4.630	4.732	4.840	4.958	5.067	5.182	5.295
Electricity Related Losses	0.018	0.018	0.015	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018
Total	4.140	4.111	4.161	4.295	4.429	4.546	4.646	4.749	4.857	4.975	5.085	5.200	5.314
<b>Delivered Energy Consumption, All Sectors</b>													
Distillate Fuel	1.121	1.077	1.093	1.119	1.157	1.189	1.218	1.246	1.272	1.305	1.340	1.374	1.409
Kerosene	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Jet Fuel 9/	0.842	0.821	0.799	0.821	0.850	0.879	0.902	0.930	0.954	0.981	1.004	1.032	1.057
Liquefied Petroleum Gas	1.761	1.867	1.779	1.818	1.855	1.883	1.919	1.948	1.955	1.973	2.005	2.036	2.073
Motor Gasoline 2/	1.967	2.021	2.064	2.140	2.206	2.261	2.310	2.360	2.411	2.464	2.514	2.567	2.622
Petrochemical Feedstocks	0.534	0.564	0.587	0.592	0.602	0.609	0.617	0.622	0.618	0.624	0.634	0.643	0.654
Residual Fuel	0.307	0.267	0.290	0.292	0.293	0.294	0.296	0.297	0.298	0.299	0.301	0.302	0.304
Other Petroleum 12/	1.249	1.196	1.220	1.218	1.291	1.328	1.341	1.362	1.374	1.323	1.278	1.289	1.334
Petroleum Subtotal	7.782	7.813	7.833	8.001	8.255	8.445	8.606	8.766	8.884	8.972	9.079	9.245	9.454
Natural Gas	3.860	3.758	3.740	3.882	3.923	3.990	4.058	4.094	4.162	4.294	4.416	4.461	4.502
Lease and Plant Fuel 6/	0.537	0.776	0.431	0.415	0.444	0.472	0.507	0.539	0.570	0.611	0.613	0.616	0.616
Pipeline Natural Gas	0.154	0.156	0.154	0.153	0.153	0.153	0.150	0.147	0.149	0.154	0.156	0.158	0.160
Natural Gas Subtotal	4.551	4.689	4.325	4.449	4.521	4.615	4.715	4.780	4.880	5.059	5.185	5.235	5.278
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
Steam Coal	0.096	0.093	0.089	0.088	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.090
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	0.096	0.093	0.089	0.088	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.090	0.090
Renewable Energy 13/	0.202	0.204	0.205	0.212	0.218	0.223	0.227	0.231	0.236	0.242	0.248	0.254	0.261
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
Electricity	1.631	1.666	1.687	1.728	1.767	1.813	1.853	1.890	1.921	1.961	2.000	2.034	2.066
Delivered Energy	14.262	14.465	14.140	14.478	14.850	15.185	15.490	15.756	16.010	16.322	16.601	16.858	17.148
Electricity Related Losses	3.497	3.590	2.961	3.010	3.075	3.121	3.103	3.160	3.260	3.328	3.383	3.423	3.444
Total	17.759	18.055	17.101	17.487	17.925	18.306	18.593	18.915	19.271	19.650	19.985	20.281	20.592
<b>Electric Generators 14/</b>													
Distillate Fuel	0.025	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.006	0.007	0.007	0.008
Residual Fuel	0.058	0.032	0.011	0.006	0.008	0.009	0.009	0.012	0.008	0.004	0.012	0.019	0.023
Petroleum Subtotal	0.082	0.039	0.016	0.010	0.012	0.013	0.013	0.016	0.013	0.010	0.018	0.026	0.031
Natural Gas	2.006	2.062	1.550	1.563	1.587	1.618	1.697	1.814	1.912	2.059	2.097	2.160	2.206
Steam Coal	2.271	2.343	2.315	2.317	2.379	2.439	2.380	2.352	2.385	2.385	2.385	2.385	2.385
Nuclear Power	0.699	0.708	0.646	0.714	0.728	0.729	0.731	0.733	0.734	0.696	0.744	0.745	0.747
Renewable Energy/Other 15/	0.070	0.103	0.121	0.134	0.136	0.135	0.136	0.136	0.137	0.139	0.140	0.140	0.141
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	5.128	5.256	4.648	4.738	4.842	4.934	4.956	5.050	5.181	5.289	5.384	5.457	5.509
<b>Total Energy Consumption</b>													
Distillate Fuel	1.145	1.083	1.097	1.123	1.161	1.193	1.223	1.250	1.278	1.311	1.347	1.381	1.417

Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Jet Fuel 9/	0.842	0.821	0.799	0.821	0.850	0.879	0.902	0.930	0.954	0.981	1.004	1.032	1.057
Liquefied Petroleum Gas	1.761	1.867	1.779	1.818	1.855	1.883	1.919	1.948	1.955	1.973	2.005	2.036	2.073
Motor Gasoline 2/	1.967	2.021	2.064	2.140	2.206	2.261	2.310	2.360	2.411	2.464	2.514	2.567	2.622
Petrochemical Feedstocks	0.534	0.564	0.587	0.592	0.602	0.609	0.617	0.622	0.618	0.624	0.634	0.643	0.654
Residual Fuel	0.365	0.299	0.302	0.298	0.301	0.303	0.305	0.309	0.306	0.303	0.312	0.321	0.327
Other Petroleum 12/	1.249	1.196	1.220	1.218	1.291	1.328	1.341	1.362	1.374	1.323	1.278	1.289	1.334
Petroleum Subtotal	7.864	7.852	7.849	8.011	8.268	8.458	8.619	8.782	8.898	8.982	9.097	9.271	9.485
Natural Gas	5.865	5.820	5.290	5.445	5.510	5.607	5.754	5.908	6.074	6.353	6.513	6.621	6.708
Lease and Plant Fuel 6/	0.537	0.776	0.431	0.415	0.444	0.472	0.507	0.539	0.570	0.611	0.613	0.616	0.616
Pipeline Natural Gas	0.154	0.156	0.154	0.153	0.153	0.153	0.150	0.147	0.149	0.154	0.156	0.158	0.160
Natural Gas Subtotal	6.556	6.752	5.876	6.013	6.108	6.232	6.412	6.594	6.793	7.118	7.282	7.395	7.483
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
Steam Coal	2.367	2.436	2.404	2.405	2.467	2.528	2.469	2.440	2.474	2.474	2.474	2.475	2.475
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	2.367	2.436	2.404	2.405	2.467	2.528	2.469	2.440	2.474	2.474	2.474	2.475	2.475
Nuclear Power	0.699	0.708	0.646	0.714	0.728	0.729	0.731	0.733	0.734	0.696	0.744	0.745	0.747
Renewable Energy 16/	0.272	0.308	0.326	0.345	0.354	0.359	0.363	0.367	0.373	0.380	0.388	0.395	0.401
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	17.759	18.055	17.101	17.487	17.925	18.306	18.593	18.916	19.271	19.651	19.985	20.281	20.592
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	14.262	14.465	14.140	14.478	14.850	15.185	15.490	15.756	16.010	16.322	16.601	16.858	17.148
Total Energy Use	17.759	18.055	17.101	17.487	17.925	18.306	18.593	18.915	19.271	19.650	19.985	20.281	20.592
Population (millions)	31.996	32.420	32.816	33.199	33.584	33.968	34.353	34.741	35.135	35.532	35.929	36.327	36.725

Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.1%
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	0.9%
Liquefied Petroleum Gas	0.025	0.025	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	0.9%
Petroleum Subtotal	0.025	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	0.029	0.9%
Natural Gas	0.404	0.404	0.406	0.406	0.409	0.410	0.413	0.412	0.414	0.416	0.419	0.419	0.5%
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	-0.5%
Renewable Energy 1/	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.2%
Electricity	0.770	0.781	0.794	0.805	0.817	0.830	0.843	0.852	0.864	0.878	0.893	0.904	1.6%
Delivered Energy	1.219	1.231	1.246	1.258	1.272	1.287	1.304	1.312	1.326	1.342	1.361	1.372	1.2%
Electricity Related Losses	1.267	1.270	1.293	1.305	1.316	1.310	1.296	1.276	1.267	1.257	1.272	1.262	-0.3%
Total	2.487	2.501	2.539	2.563	2.588	2.597	2.600	2.588	2.593	2.599	2.633	2.633	0.4%
Commercial													
Distillate Fuel	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	1.2%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
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	0.9%
Liquefied Petroleum Gas	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	-0.1%
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	0.2%
Petroleum Subtotal	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.049	0.049	0.050	0.8%
Natural Gas	0.337	0.337	0.337	0.339	0.341	0.344	0.346	0.347	0.350	0.353	0.357	0.362	1.0%
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	-1.0%
Renewable Energy 3/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.0%
Electricity	0.687	0.695	0.701	0.708	0.715	0.723	0.729	0.737	0.744	0.753	0.761	0.770	1.9%
Delivered Energy	1.075	1.083	1.090	1.099	1.109	1.119	1.128	1.136	1.147	1.159	1.171	1.185	1.5%
Electricity Related Losses	1.130	1.130	1.142	1.149	1.152	1.141	1.121	1.104	1.091	1.078	1.084	1.075	0.0%
Total	2.205	2.212	2.231	2.248	2.261	2.260	2.249	2.240	2.238	2.237	2.255	2.260	0.7%
Industrial 4/													
Distillate Fuel	0.254	0.258	0.260	0.263	0.266	0.269	0.273	0.277	0.281	0.285	0.289	0.294	1.0%
Liquefied Petroleum Gas	2.043	2.067	2.097	2.133	2.165	2.195	2.226	2.251	2.277	2.306	2.333	2.366	1.1%
Petrochemical Feedstocks	0.658	0.665	0.675	0.686	0.696	0.705	0.713	0.720	0.729	0.738	0.747	0.757	1.3%
Residual Fuel	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.7%
Motor Gasoline 2/	0.025	0.025	0.025	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	0.9%
Other Petroleum 5/	1.351	1.382	1.405	1.427	1.447	1.470	1.495	1.523	1.546	1.557	1.563	1.569	1.3%
Petroleum Subtotal	4.345	4.409	4.476	4.548	4.614	4.679	4.749	4.813	4.874	4.928	4.975	5.028	1.2%
Natural Gas	3.767	3.787	3.830	3.881	3.936	3.994	4.038	4.057	4.109	4.182	4.245	4.304	1.4%
Lease and Plant Fuel 6/	0.613	0.611	0.601	0.612	0.618	0.615	0.613	0.594	0.582	0.581	0.589	0.587	-1.2%
Natural Gas Subtotal	4.381	4.398	4.431	4.493	4.554	4.609	4.651	4.651	4.691	4.763	4.834	4.891	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	N/A
Steam Coal	0.090	0.090	0.090	0.090	0.091	0.091	0.091	0.091	0.092	0.092	0.093	0.093	0.0%
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	N/A
Coal Subtotal	0.090	0.090	0.090	0.090	0.091	0.091	0.091	0.091	0.092	0.092	0.093	0.093	0.0%
Renewable Energy 7/	0.244	0.249	0.255	0.261	0.267	0.272	0.277	0.282	0.288	0.294	0.299	0.306	2.3%
Electricity	0.629	0.638	0.647	0.655	0.658	0.662	0.667	0.675	0.685	0.697	0.708	0.720	1.4%
Delivered Energy	9.688	9.785	9.899	10.049	10.184	10.313	10.436	10.513	10.629	10.774	10.908	11.038	1.1%
Electricity Related Losses	1.035	1.038	1.054	1.063	1.061	1.045	1.026	1.011	1.005	0.998	1.008	1.006	-0.5%
Total	10.723	10.823	10.954	11.112	11.245	11.358	11.461	11.524	11.634	11.771	11.916	12.043	1.0%
Transportation													
Distillate Fuel 8/	1.151	1.175	1.200	1.226	1.251	1.274	1.299	1.324	1.353	1.384	1.416	1.452	2.5%

Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	1.083	1.101	1.118	1.139	1.160	1.179	1.196	1.211	1.226	1.239	1.251	1.262	1.9%
Motor Gasoline 2/	2.640	2.684	2.726	2.767	2.809	2.850	2.893	2.940	2.989	3.040	3.094	3.155	2.0%
Residual Fuel	0.292	0.293	0.294	0.295	0.297	0.298	0.299	0.300	0.301	0.302	0.304	0.305	0.8%
Liquefied Petroleum Gas	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	6.9%
Other Petroleum 10/	0.043	0.043	0.044	0.045	0.046	0.046	0.047	0.048	0.049	0.050	0.050	0.051	1.4%
Petroleum Subtotal	5.216	5.303	5.389	5.479	5.569	5.656	5.743	5.832	5.926	6.023	6.125	6.235	2.0%
Pipeline Fuel Natural Gas	0.159	0.159	0.156	0.159	0.162	0.162	0.162	0.158	0.154	0.154	0.154	0.153	-0.1%
Compressed Natural Gas	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.012	9.6%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.9%
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	N/A
Electricity	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	2.3%
Delivered Energy	5.395	5.484	5.567	5.661	5.754	5.841	5.929	6.014	6.105	6.204	6.307	6.415	2.0%
Electricity Related Losses	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.4%
Total	5.414	5.502	5.586	5.680	5.774	5.861	5.949	6.034	6.125	6.223	6.326	6.435	2.0%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.440	1.468	1.495	1.524	1.553	1.579	1.608	1.637	1.669	1.705	1.742	1.783	2.2%
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	3.7%
Jet Fuel 9/	1.083	1.101	1.118	1.139	1.160	1.179	1.196	1.211	1.226	1.239	1.251	1.262	1.9%
Liquefied Petroleum Gas	2.086	2.110	2.141	2.177	2.209	2.241	2.272	2.298	2.324	2.353	2.381	2.414	1.1%
Motor Gasoline 2/	2.668	2.711	2.753	2.795	2.837	2.879	2.922	2.969	3.018	3.070	3.125	3.185	2.0%
Petrochemical Feedstocks	0.658	0.665	0.675	0.686	0.696	0.705	0.713	0.720	0.729	0.738	0.747	0.757	1.3%
Residual Fuel	0.305	0.306	0.307	0.309	0.310	0.312	0.313	0.314	0.315	0.316	0.318	0.319	0.8%
Other Petroleum 12/	1.392	1.423	1.447	1.470	1.491	1.514	1.541	1.569	1.593	1.605	1.612	1.618	1.3%
Petroleum Subtotal	9.634	9.786	9.939	10.102	10.258	10.410	10.568	10.721	10.877	11.029	11.178	11.341	1.6%
Natural Gas	4.517	4.537	4.583	4.637	4.697	4.759	4.809	4.828	4.884	4.963	5.033	5.097	1.3%
Lease and Plant Fuel 6/	0.613	0.611	0.601	0.612	0.618	0.615	0.613	0.594	0.582	0.581	0.589	0.587	-1.2%
Pipeline Natural Gas	0.159	0.159	0.156	0.159	0.162	0.162	0.162	0.158	0.154	0.154	0.154	0.153	-0.1%
Natural Gas Subtotal	5.290	5.307	5.340	5.408	5.477	5.536	5.583	5.579	5.620	5.698	5.776	5.837	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	N/A
Steam Coal	0.090	0.090	0.091	0.091	0.091	0.091	0.092	0.092	0.092	0.093	0.093	0.093	0.0%
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	N/A
Coal Subtotal	0.090	0.090	0.091	0.091	0.091	0.091	0.092	0.092	0.092	0.093	0.093	0.093	0.0%
Renewable Energy 13/	0.267	0.273	0.279	0.285	0.291	0.295	0.301	0.306	0.312	0.317	0.323	0.330	2.1%
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	N/A
Electricity	2.097	2.125	2.153	2.180	2.202	2.227	2.253	2.277	2.307	2.341	2.376	2.408	1.6%
Delivered Energy	17.377	17.582	17.801	18.066	18.319	18.560	18.796	18.975	19.207	19.478	19.747	20.010	1.4%
Electricity Related Losses	3.451	3.456	3.508	3.536	3.549	3.516	3.462	3.411	3.382	3.352	3.383	3.362	-0.3%
Total	20.828	21.038	21.309	21.602	21.868	22.076	22.259	22.386	22.589	22.831	23.130	23.372	1.1%
Electric Generators 14/													
Distillate Fuel	0.013	0.028	0.025	0.011	0.007	0.007	0.008	0.017	0.008	0.007	0.008	0.009	1.1%
Residual Fuel	0.023	0.028	0.027	0.027	0.026	0.025	0.023	0.024	0.024	0.019	0.021	0.020	-2.1%
Petroleum Subtotal	0.035	0.055	0.052	0.038	0.033	0.032	0.031	0.041	0.032	0.026	0.029	0.028	-1.4%
Natural Gas	2.238	2.229	2.311	2.380	2.417	2.409	2.380	2.340	2.350	2.295	2.322	2.270	0.4%
Steam Coal	2.385	2.385	2.382	2.380	2.380	2.380	2.380	2.380	2.379	2.444	2.479	2.544	0.4%
Nuclear Power	0.748	0.770	0.771	0.773	0.775	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.4%
Renewable Energy/Other 15/	0.141	0.142	0.145	0.145	0.146	0.147	0.148	0.151	0.153	0.152	0.152	0.152	1.7%
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	N/A
Total	5.548	5.582	5.661	5.716	5.751	5.742	5.715	5.688	5.689	5.693	5.759	5.770	0.4%
Total Energy Consumption													
Distillate Fuel	1.452	1.495	1.520	1.535	1.560	1.585	1.616	1.654	1.678	1.712	1.749	1.792	2.2%

Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	3.7%
Jet Fuel 9/	1.083	1.101	1.118	1.139	1.160	1.179	1.196	1.211	1.226	1.239	1.251	1.262	1.9%
Liquefied Petroleum Gas	2.086	2.110	2.141	2.177	2.209	2.241	2.272	2.298	2.324	2.353	2.381	2.414	1.1%
Motor Gasoline 2/	2.668	2.711	2.753	2.795	2.837	2.879	2.922	2.969	3.018	3.070	3.125	3.185	2.0%
Petrochemical Feedstocks	0.658	0.665	0.675	0.686	0.696	0.705	0.713	0.720	0.729	0.738	0.747	0.757	1.3%
Residual Fuel	0.328	0.334	0.334	0.336	0.336	0.337	0.336	0.338	0.339	0.336	0.339	0.339	0.5%
Other Petroleum 12/	1.392	1.423	1.447	1.470	1.491	1.514	1.541	1.569	1.593	1.605	1.612	1.618	1.3%
Petroleum Subtotal	9.669	9.842	9.991	10.140	10.291	10.442	10.598	10.762	10.909	11.055	11.207	11.369	1.6%
Natural Gas	6.755	6.766	6.894	7.017	7.114	7.168	7.189	7.169	7.234	7.259	7.356	7.368	1.0%
Lease and Plant Fuel 6/	0.613	0.611	0.601	0.612	0.618	0.615	0.613	0.594	0.582	0.581	0.589	0.587	-1.2%
Pipeline Natural Gas	0.159	0.159	0.156	0.159	0.162	0.162	0.162	0.158	0.154	0.154	0.154	0.153	-0.1%
Natural Gas Subtotal	7.528	7.536	7.650	7.788	7.894	7.945	7.963	7.920	7.970	7.993	8.099	8.107	0.8%
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	N/A
Steam Coal	2.476	2.476	2.473	2.471	2.471	2.471	2.472	2.472	2.471	2.537	2.572	2.637	0.3%
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	N/A
Coal Subtotal	2.476	2.476	2.473	2.471	2.471	2.471	2.472	2.472	2.471	2.537	2.572	2.637	0.3%
Nuclear Power	0.748	0.770	0.771	0.773	0.775	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.4%
Renewable Energy 16/	0.408	0.415	0.424	0.430	0.436	0.442	0.449	0.457	0.464	0.470	0.476	0.482	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	N/A
Total	20.829	21.038	21.310	21.602	21.868	22.076	22.259	22.386	22.589	22.831	23.130	23.372	1.1%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	17.377	17.582	17.801	18.066	18.319	18.560	18.796	18.975	19.207	19.478	19.747	20.010	1.4%
Total Energy Use	20.828	21.038	21.309	21.602	21.868	22.076	22.259	22.386	22.589	22.831	23.130	23.372	1.1%
Population (millions)	37.118	37.509	37.901	38.293	38.683	39.072	39.458	39.843	40.228	40.611	40.996	41.386	1.1%



Table 7. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
West South Central

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquefied Petroleum Gas	0.041	0.043	0.039	0.042	0.044	0.046	0.048	0.049	0.051	0.052	0.053	0.054	0.055
Petroleum Subtotal	0.043	0.045	0.041	0.044	0.046	0.049	0.050	0.052	0.053	0.054	0.055	0.056	0.057
Natural Gas	0.345	0.361	0.355	0.394	0.403	0.417	0.430	0.444	0.457	0.471	0.482	0.494	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/	0.020	0.023	0.022	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Electricity	0.256	0.267	0.277	0.279	0.284	0.289	0.295	0.303	0.309	0.316	0.323	0.331	0.336
Delivered Energy	0.664	0.697	0.695	0.742	0.758	0.779	0.800	0.823	0.844	0.866	0.885	0.906	0.921
Electricity Related Losses	0.870	0.862	1.015	0.971	0.985	0.997	1.017	1.030	1.060	1.095	1.117	1.156	1.183
Total	1.534	1.559	1.710	1.713	1.742	1.776	1.817	1.853	1.904	1.960	2.002	2.063	2.104
Commercial													
Distillate Fuel	0.027	0.027	0.030	0.030	0.031	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.033
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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
Liquefied Petroleum Gas	0.005	0.005	0.005	0.005	0.006	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
Petroleum Subtotal	0.035	0.035	0.038	0.038	0.040	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.042
Natural Gas	0.235	0.226	0.220	0.227	0.231	0.237	0.243	0.249	0.258	0.267	0.274	0.280	0.286
Coal	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
Renewable Energy 3/	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
Electricity	0.285	0.284	0.289	0.294	0.303	0.311	0.320	0.331	0.343	0.357	0.370	0.383	0.397
Delivered Energy	0.568	0.558	0.560	0.572	0.587	0.601	0.616	0.634	0.655	0.677	0.699	0.718	0.737
Electricity Related Losses	0.969	0.916	1.061	1.022	1.052	1.074	1.104	1.125	1.178	1.234	1.280	1.341	1.397
Total	1.536	1.474	1.621	1.594	1.639	1.675	1.720	1.759	1.832	1.912	1.979	2.059	2.134
Industrial 4/													
Distillate Fuel	0.137	0.132	0.131	0.129	0.132	0.132	0.133	0.134	0.133	0.135	0.137	0.139	0.142
Liquefied Petroleum Gas	0.013	0.014	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015
Petrochemical Feedstocks	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020
Residual Fuel	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Motor Gasoline 2/	0.014	0.015	0.015	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016
Other Petroleum 5/	0.207	0.206	0.202	0.200	0.222	0.242	0.244	0.253	0.261	0.274	0.284	0.298	0.313
Petroleum Subtotal	0.380	0.381	0.376	0.372	0.392	0.414	0.417	0.427	0.435	0.451	0.463	0.480	0.498
Natural Gas	0.261	0.257	0.262	0.274	0.287	0.292	0.302	0.308	0.316	0.321	0.326	0.331	0.335
Lease and Plant Fuel 6/	0.167	0.160	0.145	0.139	0.153	0.168	0.184	0.204	0.218	0.229	0.239	0.249	0.255
Natural Gas Subtotal	0.428	0.418	0.407	0.413	0.439	0.460	0.487	0.512	0.534	0.551	0.565	0.580	0.590
Metallurgical Coal	0.019	0.016	0.018	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.016	0.016	0.016
Steam Coal	0.111	0.105	0.099	0.100	0.102	0.102	0.103	0.103	0.103	0.104	0.105	0.106	0.107
Net Coal Coke Imports	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
Coal Subtotal	0.130	0.121	0.117	0.118	0.119	0.120	0.120	0.120	0.120	0.121	0.121	0.122	0.122
Renewable Energy 7/	0.064	0.065	0.065	0.068	0.071	0.073	0.076	0.078	0.080	0.083	0.085	0.087	0.090
Electricity	0.215	0.224	0.221	0.225	0.232	0.238	0.242	0.246	0.249	0.252	0.256	0.260	0.265
Delivered Energy	1.218	1.209	1.186	1.196	1.254	1.305	1.340	1.382	1.417	1.456	1.489	1.528	1.564
Electricity Related Losses	0.732	0.722	0.810	0.783	0.807	0.823	0.835	0.837	0.854	0.873	0.885	0.911	0.932
Total	1.950	1.931	1.996	1.980	2.060	2.128	2.175	2.220	2.271	2.329	2.374	2.439	2.496
Transportation													
Distillate Fuel 8/	0.441	0.425	0.433	0.455	0.479	0.500	0.521	0.540	0.561	0.584	0.607	0.629	0.653

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.212	0.207	0.206	0.214	0.222	0.230	0.237	0.245	0.253	0.261	0.268	0.276	0.284
Motor Gasoline 2/	1.071	1.100	1.141	1.199	1.245	1.288	1.328	1.370	1.413	1.457	1.501	1.545	1.592
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquefied Petroleum Gas	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.005
Other Petroleum 10/	0.014	0.018	0.018	0.018	0.018	0.019	0.019	0.020	0.020	0.021	0.021	0.022	0.022
Petroleum Subtotal	1.739	1.751	1.800	1.888	1.967	2.040	2.108	2.179	2.251	2.326	2.400	2.477	2.556
Pipeline Fuel Natural Gas	0.112	0.114	0.120	0.117	0.120	0.123	0.127	0.132	0.135	0.134	0.139	0.143	0.145
Compressed Natural Gas	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.007
Renewable Energy (E85) 11/	0.000	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
Electricity	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007
Delivered Energy	1.857	1.871	1.927	2.012	2.095	2.172	2.244	2.321	2.396	2.471	2.552	2.634	2.715
Electricity Related Losses	0.016	0.016	0.019	0.018	0.019	0.019	0.020	0.020	0.021	0.022	0.023	0.024	0.024
Total	1.873	1.887	1.945	2.030	2.113	2.191	2.264	2.341	2.417	2.493	2.574	2.657	2.739
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.607	0.587	0.597	0.617	0.643	0.666	0.687	0.708	0.728	0.753	0.779	0.803	0.830
Kerosene	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Jet Fuel 9/	0.212	0.207	0.206	0.214	0.222	0.230	0.237	0.245	0.253	0.261	0.268	0.276	0.284
Liquefied Petroleum Gas	0.059	0.063	0.058	0.062	0.066	0.068	0.070	0.072	0.074	0.075	0.077	0.079	0.080
Motor Gasoline 2/	1.088	1.118	1.159	1.216	1.263	1.305	1.345	1.388	1.431	1.474	1.518	1.564	1.611
Petrochemical Feedstocks	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020
Residual Fuel	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Other Petroleum 12/	0.212	0.218	0.214	0.213	0.231	0.251	0.254	0.264	0.273	0.286	0.296	0.311	0.326
Petroleum Subtotal	2.197	2.212	2.255	2.342	2.446	2.542	2.615	2.698	2.780	2.872	2.960	3.055	3.153
Natural Gas	0.842	0.845	0.838	0.897	0.922	0.948	0.978	1.005	1.035	1.064	1.087	1.112	1.130
Lease and Plant Fuel 6/	0.167	0.160	0.145	0.139	0.153	0.168	0.184	0.204	0.218	0.229	0.239	0.249	0.255
Pipeline Natural Gas	0.112	0.114	0.120	0.117	0.120	0.123	0.127	0.132	0.135	0.134	0.139	0.143	0.145
Natural Gas Subtotal	1.121	1.120	1.103	1.152	1.195	1.240	1.289	1.341	1.388	1.427	1.466	1.505	1.531
Metallurgical Coal	0.019	0.016	0.018	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.016	0.016	0.016
Steam Coal	0.119	0.113	0.108	0.108	0.110	0.111	0.112	0.112	0.112	0.113	0.114	0.115	0.116
Net Coal Coke Imports	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
Coal Subtotal	0.139	0.130	0.126	0.127	0.128	0.129	0.129	0.129	0.129	0.130	0.130	0.131	0.131
Renewable Energy 13/	0.089	0.093	0.093	0.098	0.101	0.103	0.105	0.107	0.110	0.113	0.115	0.118	0.120
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
Electricity	0.761	0.780	0.791	0.804	0.824	0.844	0.863	0.886	0.907	0.931	0.956	0.981	1.005
Delivered Energy	4.307	4.335	4.368	4.523	4.693	4.857	5.001	5.161	5.311	5.470	5.625	5.787	5.937
Electricity Related Losses	2.587	2.515	2.904	2.794	2.862	2.914	2.975	3.013	3.113	3.224	3.305	3.431	3.537
Total	6.894	6.850	7.272	7.317	7.555	7.770	7.976	8.173	8.425	8.694	8.930	9.218	9.474
Electric Generators 14/													
Distillate Fuel	0.017	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.001	0.001	0.001	0.001	0.001
Residual Fuel	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Subtotal	0.029	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.001	0.001	0.001	0.001	0.001
Natural Gas	0.411	0.366	0.658	0.540	0.555	0.578	0.610	0.663	0.676	0.647	0.684	0.714	0.691
Steam Coal	2.259	2.197	2.288	2.254	2.309	2.347	2.387	2.388	2.498	2.658	2.719	2.835	2.972
Nuclear Power	0.317	0.321	0.321	0.324	0.327	0.327	0.330	0.330	0.330	0.330	0.330	0.330	0.330
Renewable Energy/Other 15/	0.333	0.400	0.417	0.469	0.483	0.494	0.500	0.506	0.514	0.519	0.525	0.531	0.546
Electricity Imports	0.000	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total	3.348	3.295	3.696	3.598	3.686	3.758	3.839	3.899	4.020	4.155	4.261	4.413	4.541
Total Energy Consumption													
Distillate Fuel	0.624	0.596	0.607	0.627	0.654	0.677	0.698	0.718	0.729	0.754	0.779	0.804	0.831

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Jet Fuel 9/	0.212	0.207	0.206	0.214	0.222	0.230	0.237	0.245	0.253	0.261	0.268	0.276	0.284
Liquefied Petroleum Gas	0.059	0.063	0.058	0.062	0.066	0.068	0.070	0.072	0.074	0.075	0.077	0.079	0.080
Motor Gasoline 2/	1.088	1.118	1.159	1.216	1.263	1.305	1.345	1.388	1.431	1.474	1.518	1.564	1.611
Petrochemical Feedstocks	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020
Residual Fuel	0.014	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Other Petroleum 12/	0.212	0.218	0.214	0.213	0.231	0.251	0.254	0.264	0.273	0.286	0.296	0.311	0.326
Petroleum Subtotal	2.226	2.222	2.265	2.353	2.456	2.552	2.625	2.709	2.780	2.872	2.961	3.055	3.154
Natural Gas	1.253	1.212	1.496	1.437	1.477	1.526	1.588	1.668	1.711	1.710	1.772	1.826	1.821
Lease and Plant Fuel 6/	0.167	0.160	0.145	0.139	0.153	0.168	0.184	0.204	0.218	0.229	0.239	0.249	0.255
Pipeline Natural Gas	0.112	0.114	0.120	0.117	0.120	0.123	0.127	0.132	0.135	0.134	0.139	0.143	0.145
Natural Gas Subtotal	1.532	1.486	1.761	1.692	1.750	1.817	1.899	2.004	2.064	2.073	2.150	2.219	2.222
Metallurgical Coal	0.019	0.016	0.018	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.016	0.016	0.016
Steam Coal	2.378	2.311	2.396	2.363	2.419	2.458	2.498	2.499	2.610	2.770	2.833	2.950	3.088
Net Coal Coke Imports	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
Coal Subtotal	2.397	2.327	2.414	2.381	2.437	2.476	2.516	2.517	2.627	2.787	2.849	2.966	3.104
Nuclear Power	0.317	0.321	0.321	0.324	0.327	0.327	0.330	0.330	0.330	0.330	0.330	0.330	0.330
Renewable Energy 16/	0.422	0.493	0.509	0.567	0.584	0.597	0.606	0.613	0.623	0.631	0.640	0.648	0.665
Electricity Imports	0.000	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total	6.894	6.850	7.272	7.317	7.555	7.771	7.977	8.174	8.426	8.696	8.932	9.220	9.476
Energy Use & Related Statistics													
Delivered Energy Use	4.307	4.335	4.368	4.523	4.693	4.857	5.001	5.161	5.311	5.470	5.625	5.787	5.937
Total Energy Use	6.894	6.850	7.272	7.317	7.555	7.770	7.976	8.173	8.425	8.694	8.930	9.218	9.474
Population (millions)	18.367	18.762	19.146	19.525	19.908	20.294	20.686	21.088	21.496	21.910	22.331	22.758	23.192

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	-1.4%
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	1.9%
Liquefied Petroleum Gas	0.056	0.057	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	2.0%
Petroleum Subtotal	0.058	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.069	0.070	1.9%
Natural Gas	0.512	0.521	0.532	0.541	0.553	0.567	0.580	0.587	0.596	0.606	0.617	0.627	2.4%
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	-0.3%
Renewable Energy 1/	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.3%
Electricity	0.343	0.350	0.357	0.363	0.370	0.378	0.387	0.393	0.400	0.407	0.416	0.423	2.0%
Delivered Energy	0.938	0.956	0.976	0.991	1.011	1.034	1.057	1.071	1.087	1.106	1.128	1.146	2.2%
Electricity Related Losses	1.224	1.265	1.335	1.395	1.404	1.441	1.445	1.435	1.445	1.468	1.493	1.497	2.4%
Total	2.162	2.220	2.311	2.386	2.415	2.475	2.502	2.506	2.533	2.575	2.621	2.643	2.3%
Commercial													
Distillate Fuel	0.033	0.034	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.036	1.2%
Residual Fuel	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%
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	1.4%
Liquefied Petroleum Gas	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.9%
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	0.2%
Petroleum Subtotal	0.042	0.042	0.043	0.043	0.043	0.043	0.043	0.044	0.044	0.044	0.045	0.045	1.1%
Natural Gas	0.291	0.297	0.304	0.311	0.319	0.329	0.338	0.344	0.350	0.358	0.367	0.377	2.3%
Coal	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%
Renewable Energy 3/	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.0%
Electricity	0.410	0.424	0.437	0.451	0.466	0.481	0.495	0.509	0.523	0.539	0.555	0.573	3.1%
Delivered Energy	0.757	0.777	0.796	0.818	0.841	0.866	0.890	0.910	0.931	0.954	0.980	1.009	2.6%
Electricity Related Losses	1.465	1.533	1.632	1.732	1.766	1.832	1.850	1.862	1.892	1.942	1.991	2.028	3.5%
Total	2.222	2.310	2.428	2.550	2.607	2.699	2.740	2.772	2.823	2.897	2.971	3.036	3.2%
Industrial 4/													
Distillate Fuel	0.144	0.146	0.148	0.150	0.152	0.154	0.156	0.158	0.161	0.163	0.166	0.168	1.1%
Liquefied Petroleum Gas	0.015	0.017	0.019	0.019	0.018	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.9%
Petrochemical Feedstocks	0.020	0.021	0.021	0.021	0.021	0.022	0.022	0.022	0.022	0.023	0.023	0.023	1.1%
Residual Fuel	0.001	0.008	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-4.1%
Motor Gasoline 2/	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.018	0.018	0.018	0.019	1.1%
Other Petroleum 5/	0.327	0.336	0.346	0.354	0.363	0.367	0.376	0.383	0.393	0.404	0.411	0.416	3.1%
Petroleum Subtotal	0.516	0.536	0.543	0.552	0.563	0.568	0.579	0.589	0.602	0.616	0.626	0.635	2.2%
Natural Gas	0.337	0.333	0.340	0.349	0.358	0.368	0.374	0.379	0.384	0.391	0.398	0.405	2.0%
Lease and Plant Fuel 6/	0.262	0.270	0.276	0.282	0.276	0.275	0.286	0.292	0.298	0.297	0.300	0.308	2.9%
Natural Gas Subtotal	0.599	0.603	0.617	0.631	0.634	0.643	0.660	0.672	0.682	0.688	0.697	0.713	2.4%
Metallurgical Coal	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.012	0.012	-1.2%
Steam Coal	0.108	0.108	0.109	0.111	0.112	0.113	0.114	0.114	0.116	0.117	0.118	0.120	0.6%
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	N/A
Coal Subtotal	0.123	0.123	0.124	0.125	0.126	0.127	0.127	0.128	0.129	0.130	0.131	0.132	0.4%
Renewable Energy 7/	0.092	0.095	0.097	0.099	0.102	0.104	0.106	0.108	0.110	0.112	0.115	0.117	2.6%
Electricity	0.269	0.273	0.277	0.282	0.287	0.291	0.295	0.299	0.304	0.309	0.315	0.322	1.6%
Delivered Energy	1.598	1.627	1.655	1.687	1.710	1.729	1.765	1.792	1.823	1.853	1.881	1.916	2.0%
Electricity Related Losses	0.961	0.987	1.035	1.081	1.088	1.108	1.101	1.091	1.098	1.115	1.132	1.138	2.0%
Total	2.558	2.614	2.690	2.768	2.798	2.837	2.866	2.883	2.921	2.969	3.013	3.054	2.0%
Transportation													
Distillate Fuel 8/	0.674	0.695	0.717	0.739	0.762	0.783	0.806	0.829	0.854	0.882	0.910	0.941	3.5%

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	0.292	0.299	0.305	0.313	0.320	0.328	0.334	0.340	0.346	0.352	0.358	0.363	2.5%
Motor Gasoline 2/	1.635	1.676	1.717	1.759	1.802	1.845	1.889	1.935	1.981	2.031	2.081	2.136	2.9%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Liquefied Petroleum Gas	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	7.5%
Other Petroleum 10/	0.023	0.023	0.024	0.025	0.025	0.026	0.027	0.027	0.028	0.029	0.030	0.031	2.4%
Petroleum Subtotal	2.629	2.699	2.768	2.841	2.915	2.988	3.062	3.137	3.217	3.300	3.386	3.477	3.0%
Pipeline Fuel Natural Gas	0.147	0.150	0.152	0.154	0.150	0.149	0.154	0.156	0.158	0.157	0.158	0.160	1.5%
Compressed Natural Gas	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.012	11.7%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.9%
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	N/A
Electricity	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.010	3.1%
Delivered Energy	2.791	2.864	2.936	3.012	3.083	3.154	3.234	3.313	3.395	3.479	3.565	3.660	3.0%
Electricity Related Losses	0.026	0.027	0.028	0.030	0.031	0.032	0.032	0.032	0.033	0.034	0.035	0.035	3.5%
Total	2.816	2.891	2.965	3.042	3.113	3.186	3.266	3.346	3.428	3.512	3.600	3.696	3.0%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.854	0.877	0.900	0.925	0.950	0.973	0.999	1.024	1.052	1.082	1.113	1.147	3.0%
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	3.2%
Jet Fuel 9/	0.292	0.299	0.305	0.313	0.320	0.328	0.334	0.340	0.346	0.352	0.358	0.363	2.5%
Liquefied Petroleum Gas	0.082	0.085	0.089	0.089	0.090	0.090	0.091	0.092	0.093	0.095	0.096	0.098	1.9%
Motor Gasoline 2/	1.653	1.695	1.736	1.778	1.821	1.865	1.909	1.955	2.002	2.052	2.103	2.158	2.9%
Petrochemical Feedstocks	0.020	0.021	0.021	0.021	0.021	0.022	0.022	0.022	0.022	0.023	0.023	0.023	1.1%
Residual Fuel	0.001	0.009	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-3.2%
Other Petroleum 12/	0.341	0.351	0.361	0.369	0.379	0.384	0.393	0.401	0.411	0.423	0.431	0.437	3.1%
Petroleum Subtotal	3.245	3.336	3.415	3.497	3.584	3.663	3.749	3.836	3.929	4.028	4.125	4.227	2.9%
Natural Gas	1.148	1.159	1.185	1.210	1.239	1.274	1.302	1.320	1.341	1.366	1.393	1.422	2.3%
Lease and Plant Fuel 6/	0.262	0.270	0.276	0.282	0.276	0.275	0.286	0.292	0.298	0.297	0.300	0.308	2.9%
Pipeline Natural Gas	0.147	0.150	0.152	0.154	0.150	0.149	0.154	0.156	0.158	0.157	0.158	0.160	1.5%
Natural Gas Subtotal	1.557	1.579	1.613	1.646	1.665	1.697	1.742	1.769	1.797	1.820	1.851	1.890	2.3%
Metallurgical Coal	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.012	0.012	-1.2%
Steam Coal	0.117	0.117	0.118	0.119	0.121	0.122	0.123	0.123	0.125	0.126	0.127	0.129	0.5%
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	N/A
Coal Subtotal	0.132	0.132	0.133	0.134	0.135	0.135	0.136	0.137	0.138	0.139	0.140	0.141	0.3%
Renewable Energy 13/	0.123	0.125	0.127	0.130	0.132	0.135	0.137	0.139	0.141	0.143	0.146	0.148	2.0%
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	N/A
Electricity	1.029	1.053	1.078	1.104	1.131	1.157	1.185	1.209	1.236	1.265	1.296	1.328	2.3%
Delivered Energy	6.083	6.224	6.364	6.508	6.645	6.784	6.946	7.087	7.237	7.393	7.554	7.731	2.5%
Electricity Related Losses	3.676	3.811	4.030	4.238	4.289	4.412	4.428	4.420	4.468	4.560	4.650	4.698	2.8%
Total	9.759	10.035	10.394	10.746	10.934	11.196	11.374	11.507	11.705	11.953	12.205	12.429	2.6%
Electric Generators 14/													
Distillate Fuel	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-9.8%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-48.4%
Petroleum Subtotal	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-9.8%
Natural Gas	0.660	0.588	0.572	0.511	0.581	0.603	0.570	0.522	0.494	0.456	0.460	0.400	0.4%
Steam Coal	3.160	3.384	3.643	3.937	3.945	4.063	4.128	4.191	4.293	4.453	4.556	4.679	3.3%
Nuclear Power	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.1%
Renewable Energy/Other 15/	0.552	0.559	0.561	0.561	0.561	0.572	0.583	0.584	0.585	0.585	0.600	0.615	1.9%
Electricity Imports	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	-4.6%
Total	4.704	4.865	5.108	5.342	5.420	5.570	5.613	5.630	5.704	5.825	5.947	6.026	2.7%
Total Energy Consumption													
Distillate Fuel	0.855	0.878	0.902	0.927	0.951	0.974	1.000	1.025	1.053	1.083	1.114	1.148	2.9%

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	3.2%
Jet Fuel 9/	0.292	0.299	0.305	0.313	0.320	0.328	0.334	0.340	0.346	0.352	0.358	0.363	2.5%
Liquefied Petroleum Gas	0.082	0.085	0.089	0.089	0.090	0.090	0.091	0.092	0.093	0.095	0.096	0.098	1.9%
Motor Gasoline 2/	1.653	1.695	1.736	1.778	1.821	1.865	1.909	1.955	2.002	2.052	2.103	2.158	2.9%
Petrochemical Feedstocks	0.020	0.021	0.021	0.021	0.021	0.022	0.022	0.022	0.022	0.023	0.023	0.023	1.1%
Residual Fuel	0.001	0.009	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-3.2%
Other Petroleum 12/	0.341	0.351	0.361	0.369	0.379	0.384	0.393	0.401	0.411	0.423	0.431	0.437	3.1%
Petroleum Subtotal	3.246	3.338	3.416	3.499	3.585	3.663	3.750	3.837	3.930	4.030	4.126	4.228	2.8%
Natural Gas	1.808	1.748	1.757	1.721	1.820	1.876	1.872	1.843	1.835	1.822	1.853	1.822	1.8%
Lease and Plant Fuel 6/	0.262	0.270	0.276	0.282	0.276	0.275	0.286	0.292	0.298	0.297	0.300	0.308	2.9%
Pipeline Natural Gas	0.147	0.150	0.152	0.154	0.150	0.149	0.154	0.156	0.158	0.157	0.158	0.160	1.5%
Natural Gas Subtotal	2.217	2.168	2.185	2.157	2.247	2.300	2.312	2.291	2.291	2.276	2.311	2.291	1.9%
Metallurgical Coal	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.012	0.012	-1.2%
Steam Coal	3.276	3.502	3.761	4.057	4.066	4.185	4.250	4.315	4.417	4.578	4.683	4.808	3.2%
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	N/A
Coal Subtotal	3.292	3.517	3.776	4.071	4.080	4.199	4.264	4.328	4.430	4.591	4.695	4.820	3.2%
Nuclear Power	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.1%
Renewable Energy 16/	0.675	0.684	0.688	0.690	0.693	0.706	0.720	0.723	0.726	0.728	0.745	0.763	1.9%
Electricity Imports	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	-4.6%
Total	9.761	10.037	10.396	10.749	10.937	11.199	11.377	11.510	11.708	11.956	12.208	12.432	2.6%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	6.083	6.224	6.364	6.508	6.645	6.784	6.946	7.087	7.237	7.393	7.554	7.731	2.5%
Total Energy Use	9.759	10.035	10.394	10.746	10.934	11.196	11.374	11.507	11.705	11.953	12.205	12.429	2.6%
Population (millions)	23.629	24.070	24.516	24.967	25.423	25.883	26.348	26.818	27.294	27.775	28.263	28.762	1.9%

Table 8. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Mountain

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption													
Residential													
Distillate Fuel	0.013	0.013	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Kerosene	0.011	0.006	0.007	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011
Liquefied Petroleum Gas	0.041	0.040	0.037	0.039	0.041	0.042	0.044	0.045	0.045	0.046	0.047	0.048	0.049
Petroleum Subtotal	0.065	0.059	0.055	0.062	0.064	0.066	0.067	0.068	0.069	0.070	0.071	0.072	0.072
Natural Gas	0.672	0.682	0.673	0.724	0.732	0.747	0.761	0.778	0.792	0.809	0.822	0.837	0.845
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/	0.076	0.075	0.072	0.075	0.076	0.076	0.077	0.078	0.078	0.079	0.080	0.080	0.081
Electricity	0.451	0.432	0.440	0.445	0.448	0.452	0.456	0.461	0.464	0.470	0.476	0.485	0.492
Delivered Energy	1.264	1.248	1.240	1.308	1.322	1.342	1.362	1.386	1.405	1.428	1.450	1.475	1.491
Electricity Related Losses	0.745	0.713	0.653	0.751	0.752	0.766	0.775	0.794	0.778	0.786	0.796	0.799	0.801
Total	2.009	1.961	1.893	2.058	2.074	2.108	2.137	2.181	2.183	2.214	2.246	2.274	2.292
Commercial													
Distillate Fuel	0.027	0.026	0.030	0.030	0.032	0.033	0.034	0.034	0.035	0.036	0.036	0.037	0.038
Residual Fuel	0.001	0.001	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
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
Liquefied Petroleum Gas	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Motor Gasoline 2/	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
Petroleum Subtotal	0.039	0.039	0.043	0.046	0.046	0.047	0.048	0.049	0.050	0.050	0.051	0.052	0.053
Natural Gas	0.397	0.378	0.372	0.379	0.386	0.396	0.405	0.414	0.424	0.435	0.445	0.454	0.462
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
Renewable Energy 3/	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Electricity	0.522	0.501	0.515	0.526	0.546	0.563	0.579	0.595	0.611	0.628	0.647	0.672	0.701
Delivered Energy	0.981	0.943	0.955	0.975	1.002	1.030	1.056	1.082	1.109	1.138	1.167	1.201	1.239
Electricity Related Losses	0.863	0.827	0.765	0.887	0.915	0.955	0.985	1.025	1.024	1.051	1.083	1.106	1.141
Total	1.844	1.770	1.720	1.863	1.917	1.985	2.041	2.106	2.132	2.189	2.250	2.307	2.380
Industrial 4/													
Distillate Fuel	0.098	0.094	0.094	0.092	0.092	0.093	0.093	0.094	0.093	0.095	0.096	0.098	0.100
Liquefied Petroleum Gas	0.034	0.029	0.028	0.028	0.039	0.040	0.042	0.044	0.046	0.048	0.051	0.054	0.057
Petrochemical Feedstocks	0.011	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014
Residual Fuel	0.009	0.013	0.013	0.013	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Motor Gasoline 2/	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.018	0.018
Other Petroleum 5/	0.661	0.641	0.628	0.620	0.744	0.765	0.771	0.768	0.774	0.787	0.800	0.810	0.820
Petroleum Subtotal	0.823	0.804	0.789	0.781	0.911	0.935	0.943	0.943	0.951	0.968	0.986	1.000	1.016
Natural Gas	0.932	0.930	0.947	0.990	0.919	0.923	0.933	0.955	0.968	0.979	0.989	1.005	1.020
Lease and Plant Fuel 6/	0.333	0.327	0.388	0.404	0.420	0.430	0.437	0.444	0.449	0.455	0.460	0.464	0.469
Natural Gas Subtotal	1.265	1.257	1.335	1.394	1.338	1.353	1.370	1.399	1.417	1.434	1.449	1.469	1.488
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
Steam Coal	0.077	0.073	0.069	0.069	0.070	0.071	0.071	0.071	0.071	0.072	0.073	0.073	0.074
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	0.077	0.073	0.069	0.069	0.070	0.071	0.071	0.071	0.071	0.072	0.073	0.073	0.074
Renewable Energy 7/	0.243	0.245	0.246	0.257	0.269	0.277	0.283	0.289	0.296	0.305	0.314	0.323	0.332
Electricity	0.378	0.392	0.386	0.395	0.414	0.421	0.427	0.432	0.437	0.443	0.451	0.459	0.467
Delivered Energy	2.786	2.770	2.825	2.896	3.003	3.057	3.095	3.134	3.172	3.222	3.272	3.324	3.377
Electricity Related Losses	0.624	0.646	0.574	0.665	0.695	0.713	0.726	0.743	0.732	0.742	0.754	0.756	0.760
Total	3.410	3.417	3.398	3.561	3.697	3.770	3.821	3.877	3.904	3.964	4.025	4.080	4.138
Transportation													
Distillate Fuel 8/	0.587	0.566	0.574	0.599	0.623	0.644	0.663	0.681	0.700	0.722	0.743	0.763	0.784

Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	0.900	0.877	0.857	0.880	0.911	0.940	0.963	0.990	1.014	1.041	1.063	1.089	1.112
Motor Gasoline 2/	2.388	2.454	2.510	2.604	2.676	2.738	2.795	2.851	2.900	2.955	3.011	3.071	3.133
Residual Fuel	0.278	0.237	0.258	0.259	0.260	0.261	0.262	0.263	0.264	0.265	0.265	0.266	0.267
Liquefied Petroleum Gas	0.003	0.003	0.004	0.004	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.011
Other Petroleum 10/ Petroleum Subtotal	0.027 4.182	0.039 4.176	0.039 4.242	0.040 4.386	0.039 4.516	0.040 4.630	0.040 4.731	0.041 4.834	0.041 4.928	0.041 5.032	0.041 5.133	0.042 5.240	0.042 5.348
Pipeline Fuel Natural Gas	0.037	0.037	0.036	0.035	0.036	0.037	0.037	0.037	0.038	0.039	0.039	0.039	0.038
Compressed Natural Gas	0.002	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.008	0.009	0.009	0.010	0.011
Renewable Energy (E85) 11/ 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 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity Delivered Energy	0.012 4.233	0.012 4.228	0.013 4.293	0.013 4.438	0.013 4.570	0.014 4.686	0.014 4.789	0.014 4.893	0.015 4.988	0.015 5.095	0.015 5.197	0.016 5.305	0.016 5.414
Electricity Related Losses	0.020	0.020	0.019	0.022	0.022	0.023	0.024	0.025	0.024	0.025	0.026	0.026	0.026
Total	4.253	4.248	4.312	4.460	4.593	4.710	4.812	4.918	5.013	5.120	5.223	5.331	5.440
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.724	0.699	0.709	0.734	0.760	0.783	0.803	0.822	0.842	0.865	0.888	0.911	0.934
Kerosene	0.013	0.007	0.008	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.012
Jet Fuel 9/	0.900	0.877	0.857	0.880	0.911	0.940	0.963	0.990	1.014	1.041	1.063	1.089	1.112
Liquefied Petroleum Gas	0.082	0.078	0.074	0.077	0.092	0.095	0.099	0.103	0.106	0.110	0.114	0.118	0.122
Motor Gasoline 2/	2.410	2.476	2.533	2.626	2.699	2.761	2.817	2.874	2.923	2.978	3.035	3.094	3.157
Petrochemical Feedstocks	0.011	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014
Residual Fuel	0.288	0.251	0.272	0.275	0.269	0.271	0.272	0.272	0.273	0.274	0.275	0.275	0.276
Other Petroleum 12/ Petroleum Subtotal	0.681 5.109	0.678 5.079	0.664 5.129	0.658 5.275	0.782 5.537	0.804 5.678	0.810 5.789	0.807 5.894	0.813 5.997	0.826 6.120	0.840 6.240	0.850 6.364	0.861 6.489
Natural Gas	2.003	1.992	1.995	2.097	2.043	2.072	2.105	2.154	2.192	2.231	2.266	2.306	2.337
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.333 0.037	0.327 0.037	0.388 0.036	0.404 0.035	0.420 0.036	0.430 0.037	0.437 0.037	0.444 0.037	0.449 0.038	0.455 0.039	0.460 0.039	0.464 0.039	0.469 0.038
Natural Gas Subtotal	2.373	2.357	2.419	2.537	2.498	2.538	2.579	2.635	2.679	2.726	2.765	2.809	2.844
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
Steam Coal	0.086	0.082	0.078	0.079	0.080	0.081	0.081	0.081	0.081	0.082	0.082	0.083	0.084
Net Coal Coke Imports Coal Subtotal	0.000 0.086	0.000 0.082	0.000 0.078	0.000 0.079	0.000 0.080	0.000 0.081	0.000 0.081	0.000 0.081	0.000 0.081	0.000 0.082	0.000 0.082	0.000 0.083	0.000 0.084
Renewable Energy 13/ Liquid Hydrogen	0.333 0.000	0.335 0.000	0.333 0.000	0.348 0.000	0.360 0.000	0.369 0.000	0.376 0.000	0.383 0.000	0.390 0.000	0.400 0.000	0.410 0.000	0.419 0.000	0.429 0.000
Electricity Delivered Energy	1.363 9.264	1.338 9.190	1.354 9.313	1.379 9.617	1.422 9.897	1.449 10.115	1.476 10.301	1.503 10.495	1.527 10.674	1.556 10.883	1.590 11.086	1.631 11.305	1.677 11.522
Electricity Related Losses	2.252	2.207	2.010	2.325	2.384	2.457	2.510	2.586	2.558	2.604	2.658	2.686	2.728
Total	11.516	11.396	11.323	11.942	12.281	12.572	12.811	13.081	13.232	13.487	13.744	13.991	14.250
Electric Generators 14/													
Distillate Fuel	0.059	0.012	0.015	0.012	0.015	0.016	0.016	0.016	0.017	0.016	0.017	0.018	0.018
Residual Fuel	0.067	0.101	0.097	0.093	0.103	0.105	0.107	0.109	0.106	0.107	0.109	0.111	0.114
Petroleum Subtotal	0.127	0.113	0.112	0.105	0.119	0.121	0.123	0.125	0.123	0.124	0.126	0.129	0.132
Natural Gas	1.199	0.836	0.645	0.776	0.846	0.885	0.905	0.937	0.941	0.878	0.893	0.899	0.923
Steam Coal	0.185	0.184	0.173	0.169	0.174	0.179	0.183	0.184	0.184	0.184	0.185	0.186	0.186
Nuclear Power	0.449	0.453	0.447	0.453	0.455	0.456	0.456	0.457	0.387	0.459	0.460	0.461	0.461
Renewable Energy/Other 15/ Electricity Imports	1.662 0.000	1.955 0.004	1.981 0.006	2.197 0.005	2.206 0.005	2.261 0.005	2.314 0.005	2.382 0.005	2.445 0.005	2.511 0.005	2.578 0.005	2.638 0.005	2.697 0.005
Total	3.615	3.544	3.364	3.704	3.806	3.906	3.986	4.089	4.085	4.161	4.248	4.317	4.405
Total Energy Consumption													
Distillate Fuel	0.783	0.711	0.724	0.746	0.776	0.799	0.819	0.839	0.858	0.882	0.906	0.929	0.952

Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.013	0.007	0.008	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.012
Jet Fuel 9/	0.900	0.877	0.857	0.880	0.911	0.940	0.963	0.990	1.014	1.041	1.063	1.089	1.112
Liquefied Petroleum Gas	0.082	0.078	0.074	0.077	0.092	0.095	0.099	0.103	0.106	0.110	0.114	0.118	0.122
Motor Gasoline 2/	2.410	2.476	2.533	2.626	2.699	2.761	2.817	2.874	2.923	2.978	3.035	3.094	3.157
Petrochemical Feedstocks	0.011	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014
Residual Fuel	0.355	0.352	0.369	0.368	0.373	0.376	0.379	0.381	0.379	0.381	0.383	0.386	0.390
Other Petroleum 12/	0.681	0.678	0.664	0.658	0.782	0.804	0.810	0.807	0.813	0.826	0.840	0.850	0.861
Petroleum Subtotal	5.236	5.192	5.241	5.380	5.656	5.799	5.912	6.019	6.119	6.243	6.366	6.493	6.621
Natural Gas	3.202	2.828	2.640	2.873	2.889	2.957	3.010	3.091	3.133	3.109	3.159	3.205	3.260
Lease and Plant Fuel 6/	0.333	0.327	0.388	0.404	0.420	0.430	0.437	0.444	0.449	0.455	0.460	0.464	0.469
Pipeline Natural Gas	0.037	0.037	0.036	0.035	0.036	0.037	0.037	0.037	0.038	0.039	0.039	0.039	0.038
Natural Gas Subtotal	3.572	3.192	3.064	3.312	3.344	3.423	3.484	3.572	3.620	3.603	3.658	3.708	3.767
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
Steam Coal	0.271	0.266	0.251	0.248	0.254	0.260	0.264	0.265	0.265	0.266	0.267	0.268	0.270
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	0.271	0.266	0.251	0.248	0.254	0.260	0.264	0.265	0.265	0.266	0.267	0.268	0.270
Nuclear Power	0.449	0.453	0.447	0.453	0.455	0.456	0.456	0.457	0.387	0.459	0.460	0.461	0.461
Renewable Energy 16/	1.994	2.290	2.314	2.545	2.566	2.629	2.690	2.764	2.835	2.910	2.987	3.056	3.125
Electricity Imports	0.000	0.004	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total	11.522	11.396	11.323	11.942	12.281	12.572	12.811	13.081	13.232	13.487	13.744	13.991	14.250
Energy Use & Related Statistics													
Delivered Energy Use	9.264	9.190	9.313	9.617	9.897	10.115	10.301	10.495	10.674	10.883	11.086	11.305	11.522
Total Energy Use	11.516	11.396	11.323	11.942	12.281	12.572	12.811	13.081	13.232	13.487	13.744	13.991	14.250
Population (millions)	46.432	47.035	47.604	48.148	48.694	49.238	49.783	50.333	50.889	51.446	52.006	52.572	53.142

Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption													
Residential													
Distillate Fuel	0.013	0.013	0.013	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	-0.4%
Kerosene	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.9%
Liquefied Petroleum Gas	0.050	0.050	0.051	0.051	0.053	0.054	0.055	0.055	0.055	0.056	0.056	0.057	1.5%
Petroleum Subtotal	0.073	0.073	0.074	0.074	0.075	0.076	0.076	0.076	0.076	0.076	0.076	0.076	1.1%
Natural Gas	0.856	0.867	0.881	0.891	0.904	0.919	0.935	0.944	0.954	0.966	0.982	0.993	1.7%
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	-0.5%
Renewable Energy 1/	0.081	0.082	0.083	0.083	0.084	0.084	0.085	0.085	0.086	0.086	0.087	0.087	0.7%
Electricity	0.499	0.505	0.512	0.515	0.521	0.527	0.535	0.539	0.544	0.550	0.557	0.561	1.1%
Delivered Energy	1.510	1.529	1.550	1.565	1.584	1.607	1.632	1.645	1.661	1.679	1.702	1.719	1.4%
Electricity Related Losses	0.791	0.788	0.760	0.742	0.742	0.748	0.785	0.818	0.831	0.838	0.846	0.870	0.9%
Total	2.301	2.317	2.310	2.307	2.326	2.355	2.417	2.462	2.492	2.517	2.548	2.589	1.2%
Commercial													
Distillate Fuel	0.039	0.039	0.040	0.041	0.042	0.042	0.042	0.043	0.044	0.045	0.046	0.046	2.5%
Residual Fuel	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	3.7%
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	1.8%
Liquefied Petroleum Gas	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.6%
Motor Gasoline 2/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.2%
Petroleum Subtotal	0.053	0.054	0.055	0.056	0.057	0.057	0.058	0.058	0.059	0.060	0.061	0.062	2.0%
Natural Gas	0.469	0.478	0.487	0.497	0.507	0.519	0.531	0.542	0.551	0.563	0.575	0.590	1.9%
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	0.1%
Renewable Energy 3/	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.0%
Electricity	0.729	0.753	0.775	0.797	0.819	0.843	0.867	0.891	0.915	0.940	0.966	0.993	3.0%
Delivered Energy	1.275	1.309	1.340	1.373	1.407	1.443	1.480	1.515	1.550	1.588	1.627	1.668	2.5%
Electricity Related Losses	1.155	1.174	1.150	1.147	1.168	1.196	1.272	1.352	1.398	1.432	1.467	1.540	2.7%
Total	2.430	2.483	2.491	2.520	2.575	2.640	2.752	2.867	2.948	3.020	3.093	3.208	2.6%
Industrial 4/													
Distillate Fuel	0.101	0.103	0.104	0.105	0.107	0.108	0.110	0.111	0.113	0.115	0.117	0.118	1.0%
Liquefied Petroleum Gas	0.060	0.062	0.063	0.065	0.075	0.082	0.088	0.094	0.101	0.108	0.113	0.117	6.2%
Petrochemical Feedstocks	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016	1.1%
Residual Fuel	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	-2.1%
Motor Gasoline 2/	0.018	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.021	0.021	0.021	1.1%
Other Petroleum 5/	0.824	0.825	0.833	0.839	0.839	0.846	0.838	0.841	0.846	0.847	0.847	0.853	1.2%
Petroleum Subtotal	1.024	1.030	1.040	1.050	1.062	1.077	1.078	1.089	1.103	1.114	1.120	1.133	1.5%
Natural Gas	1.033	1.048	1.063	1.084	1.106	1.126	1.145	1.159	1.178	1.200	1.222	1.248	1.3%
Lease and Plant Fuel 6/	0.473	0.478	0.482	0.487	0.550	0.615	0.620	0.624	0.629	0.647	0.665	0.670	3.2%
Natural Gas Subtotal	1.506	1.525	1.546	1.570	1.656	1.740	1.765	1.784	1.807	1.847	1.888	1.918	1.9%
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	N/A
Steam Coal	0.075	0.075	0.076	0.077	0.078	0.078	0.079	0.079	0.080	0.081	0.082	0.083	0.6%
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	N/A
Coal Subtotal	0.075	0.075	0.076	0.077	0.078	0.078	0.079	0.079	0.080	0.081	0.082	0.083	0.6%
Renewable Energy 7/	0.341	0.348	0.356	0.364	0.372	0.379	0.386	0.393	0.400	0.408	0.416	0.425	2.4%
Electricity	0.475	0.483	0.490	0.500	0.509	0.517	0.526	0.534	0.545	0.556	0.568	0.581	1.7%
Delivered Energy	3.421	3.461	3.508	3.560	3.678	3.792	3.834	3.879	3.935	4.006	4.074	4.139	1.8%
Electricity Related Losses	0.753	0.753	0.728	0.719	0.726	0.734	0.772	0.811	0.832	0.847	0.862	0.901	1.5%
Total	4.174	4.214	4.236	4.280	4.404	4.526	4.605	4.690	4.768	4.854	4.936	5.040	1.7%
Transportation													
Distillate Fuel 8/	0.802	0.819	0.837	0.856	0.874	0.891	0.909	0.926	0.947	0.968	0.991	1.015	2.6%

Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	1.137	1.155	1.172	1.192	1.212	1.231	1.246	1.260	1.274	1.286	1.297	1.305	1.7%
Motor Gasoline 2/	3.186	3.236	3.285	3.332	3.383	3.432	3.483	3.537	3.590	3.648	3.706	3.772	1.9%
Residual Fuel	0.267	0.268	0.269	0.269	0.270	0.271	0.272	0.272	0.273	0.274	0.275	0.276	0.7%
Liquefied Petroleum Gas	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	6.6%
Other Petroleum 10/	0.043	0.043	0.044	0.045	0.045	0.046	0.047	0.047	0.048	0.048	0.049	0.050	1.0%
Petroleum Subtotal	5.446	5.534	5.618	5.706	5.797	5.884	5.970	6.057	6.145	6.238	6.331	6.433	1.9%
Pipeline Fuel Natural Gas	0.037	0.037	0.036	0.036	0.078	0.119	0.119	0.119	0.119	0.129	0.139	0.139	5.9%
Compressed Natural Gas	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.015	0.015	0.015	0.016	8.9%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	7.8%
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	N/A
Electricity	0.016	0.017	0.017	0.017	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.021	2.3%
Delivered Energy	5.512	5.600	5.684	5.772	5.907	6.036	6.123	6.210	6.299	6.402	6.507	6.609	2.0%
Electricity Related Losses	0.026	0.026	0.025	0.025	0.025	0.026	0.027	0.029	0.030	0.030	0.031	0.032	2.0%
Total	5.537	5.626	5.709	5.798	5.932	6.061	6.150	6.239	6.329	6.433	6.538	6.642	2.0%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.955	0.974	0.994	1.015	1.036	1.053	1.074	1.093	1.116	1.140	1.164	1.191	2.3%
Kerosene	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.009	1.4%
Jet Fuel 9/	1.137	1.155	1.172	1.192	1.212	1.231	1.246	1.260	1.274	1.286	1.297	1.305	1.7%
Liquefied Petroleum Gas	0.127	0.130	0.132	0.134	0.146	0.155	0.161	0.168	0.175	0.184	0.190	0.194	4.1%
Motor Gasoline 2/	3.210	3.261	3.310	3.357	3.408	3.458	3.509	3.563	3.617	3.675	3.733	3.800	1.9%
Petrochemical Feedstocks	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016	1.1%
Residual Fuel	0.277	0.278	0.278	0.279	0.280	0.281	0.282	0.283	0.283	0.284	0.285	0.286	0.6%
Other Petroleum 12/	0.865	0.867	0.875	0.882	0.883	0.890	0.883	0.887	0.892	0.894	0.894	0.901	1.2%
Petroleum Subtotal	6.597	6.691	6.787	6.885	6.991	7.094	7.182	7.280	7.383	7.488	7.589	7.703	1.8%
Natural Gas	2.370	2.405	2.444	2.485	2.530	2.577	2.626	2.659	2.698	2.744	2.794	2.847	1.6%
Lease and Plant Fuel 6/	0.473	0.478	0.482	0.487	0.550	0.615	0.620	0.624	0.629	0.647	0.665	0.670	3.2%
Pipeline Natural Gas	0.037	0.037	0.036	0.036	0.078	0.119	0.119	0.119	0.119	0.129	0.139	0.139	5.9%
Natural Gas Subtotal	2.880	2.919	2.963	3.007	3.159	3.311	3.365	3.403	3.447	3.520	3.599	3.656	1.9%
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	N/A
Steam Coal	0.084	0.085	0.085	0.086	0.087	0.088	0.088	0.089	0.090	0.091	0.092	0.093	0.5%
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	N/A
Coal Subtotal	0.084	0.085	0.085	0.086	0.087	0.088	0.088	0.089	0.090	0.091	0.092	0.093	0.5%
Renewable Energy 13/	0.438	0.447	0.455	0.464	0.473	0.480	0.488	0.495	0.503	0.511	0.520	0.529	2.0%
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	N/A
Electricity	1.719	1.757	1.794	1.829	1.867	1.906	1.946	1.983	2.024	2.066	2.111	2.155	2.1%
Delivered Energy	11.718	11.899	12.083	12.271	12.576	12.878	13.069	13.250	13.446	13.676	13.910	14.135	1.9%
Electricity Related Losses	2.724	2.741	2.664	2.633	2.661	2.704	2.857	3.009	3.092	3.148	3.205	3.343	1.8%
Total	14.442	14.640	14.747	14.904	15.237	15.582	15.925	16.259	16.538	16.823	17.115	17.479	1.9%
Electric Generators 14/													
Distillate Fuel	0.023	0.026	0.021	0.022	0.023	0.021	0.021	0.025	0.027	0.027	0.028	0.025	3.2%
Residual Fuel	0.118	0.119	0.120	0.120	0.124	0.125	0.128	0.132	0.133	0.134	0.138	0.140	1.4%
Petroleum Subtotal	0.141	0.145	0.142	0.142	0.147	0.146	0.149	0.156	0.160	0.161	0.166	0.165	1.7%
Natural Gas	0.903	0.889	0.810	0.759	0.787	0.798	0.792	0.793	0.779	0.721	0.737	0.746	-0.5%
Steam Coal	0.187	0.188	0.188	0.188	0.189	0.189	0.276	0.372	0.476	0.616	0.658	0.751	6.3%
Nuclear Power	0.462	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.1%
Renewable Energy/Other 15/	2.746	2.809	2.849	2.906	2.939	3.010	3.121	3.206	3.236	3.252	3.292	3.373	2.4%
Electricity Imports	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.002	0.002	0.001	0.001	-4.6%
Total	4.444	4.498	4.457	4.463	4.528	4.610	4.803	4.992	5.116	5.214	5.316	5.499	1.9%
Total Energy Consumption													
Distillate Fuel	0.978	1.000	1.015	1.037	1.058	1.075	1.094	1.117	1.143	1.166	1.192	1.216	2.4%

Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Kerosene	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.009	1.4%
Jet Fuel 9/	1.137	1.155	1.172	1.192	1.212	1.231	1.246	1.260	1.274	1.286	1.297	1.305	1.7%
Liquefied Petroleum Gas	0.127	0.130	0.132	0.134	0.146	0.155	0.161	0.168	0.175	0.184	0.190	0.194	4.1%
Motor Gasoline 2/	3.210	3.261	3.310	3.357	3.408	3.458	3.509	3.563	3.617	3.675	3.733	3.800	1.9%
Petrochemical Feedstocks	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016	1.1%
Residual Fuel	0.395	0.396	0.399	0.399	0.405	0.406	0.410	0.414	0.416	0.419	0.424	0.426	0.8%
Other Petroleum 12/	0.865	0.867	0.875	0.882	0.883	0.890	0.883	0.887	0.892	0.894	0.894	0.901	1.2%
Petroleum Subtotal	6.738	6.836	6.929	7.027	7.138	7.240	7.330	7.436	7.542	7.649	7.755	7.868	1.8%
Natural Gas	3.273	3.294	3.255	3.244	3.317	3.376	3.418	3.453	3.478	3.466	3.532	3.593	1.0%
Lease and Plant Fuel 6/	0.473	0.478	0.482	0.487	0.550	0.615	0.620	0.624	0.629	0.647	0.665	0.670	3.2%
Pipeline Natural Gas	0.037	0.037	0.036	0.036	0.078	0.119	0.119	0.119	0.119	0.129	0.139	0.139	5.9%
Natural Gas Subtotal	3.783	3.808	3.773	3.766	3.946	4.110	4.157	4.197	4.226	4.241	4.336	4.402	1.4%
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	N/A
Steam Coal	0.272	0.273	0.274	0.275	0.276	0.277	0.364	0.460	0.566	0.706	0.749	0.844	5.2%
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	N/A
Coal Subtotal	0.272	0.273	0.274	0.275	0.276	0.277	0.364	0.460	0.566	0.706	0.749	0.844	5.2%
Nuclear Power	0.462	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.1%
Renewable Energy 16/	3.183	3.255	3.303	3.369	3.411	3.489	3.608	3.700	3.738	3.762	3.811	3.901	2.3%
Electricity Imports	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.002	0.002	0.001	0.001	-4.6%
Total	14.442	14.640	14.747	14.904	15.237	15.582	15.925	16.259	16.538	16.823	17.115	17.479	1.9%
Energy Use & Related Statistics													
Delivered Energy Use	11.718	11.899	12.083	12.271	12.576	12.878	13.069	13.250	13.446	13.676	13.910	14.135	1.9%
Total Energy Use	14.442	14.640	14.747	14.904	15.237	15.582	15.925	16.259	16.538	16.823	17.115	17.479	1.9%
Population (millions)	53.709	54.272	54.837	55.403	55.969	56.535	57.099	57.665	58.234	58.804	59.377	59.957	1.1%

Table 9. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
Pacific

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Energy Consumption</b>													
<b>Residential</b>													
Distillate Fuel	0.90	0.89	0.92	0.95	0.95	0.95	0.95	0.95	0.94	0.93	0.92	0.92	0.91
Kerosene	0.11	0.07	0.08	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Liquefied Petroleum Gas	0.50	0.53	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56	0.57	0.57
Petroleum Subtotal	1.51	1.48	1.51	1.58	1.59	1.60	1.60	1.61	1.60	1.60	1.60	1.60	1.59
Natural Gas	4.92	5.06	5.21	5.32	5.35	5.44	5.50	5.57	5.62	5.69	5.74	5.78	5.79
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/	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40	0.41	0.41
Electricity	4.10	4.33	4.37	4.44	4.50	4.57	4.64	4.73	4.79	4.87	4.95	5.03	5.08
Delivered Energy	10.91	11.28	11.52	11.76	11.86	12.02	12.16	12.33	12.43	12.58	12.70	12.83	12.88
Electricity Related Losses	9.28	9.60	9.69	9.78	9.89	10.03	10.18	10.34	10.36	10.48	10.58	10.71	10.76
Total	20.18	20.88	21.21	21.54	21.75	22.05	22.34	22.66	22.79	23.06	23.28	23.54	23.64
<b>Commercial</b>													
Distillate Fuel	0.49	0.49	0.57	0.56	0.58	0.59	0.60	0.61	0.62	0.62	0.63	0.63	0.64
Residual Fuel	0.09	0.08	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Kerosene	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
Liquefied Petroleum Gas	0.09	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
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
Petroleum Subtotal	0.74	0.72	0.85	0.85	0.87	0.88	0.89	0.90	0.91	0.92	0.92	0.93	0.94
Natural Gas	3.33	3.21	3.26	3.20	3.26	3.34	3.40	3.45	3.51	3.57	3.62	3.65	3.68
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
Renewable Energy 3/	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Electricity	4.09	4.12	4.14	4.28	4.42	4.55	4.68	4.80	4.92	5.05	5.18	5.29	5.42
Delivered Energy	8.34	8.25	8.44	8.52	8.75	8.98	9.17	9.35	9.54	9.74	9.92	10.08	10.23
Electricity Related Losses	9.24	9.15	9.17	9.42	9.72	10.00	10.26	10.49	10.64	10.86	11.07	11.28	11.46
Total	17.58	17.40	17.61	17.94	18.47	18.98	19.43	19.85	20.18	20.60	20.99	21.35	21.69
<b>Industrial 4/</b>													
Distillate Fuel	1.21	1.16	1.17	1.14	1.15	1.16	1.16	1.17	1.16	1.17	1.19	1.21	1.23
Liquefied Petroleum Gas	2.10	2.22	2.12	2.16	2.21	2.24	2.29	2.32	2.33	2.35	2.39	2.43	2.48
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37	1.39	1.41
Residual Fuel	0.15	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22
Motor Gasoline 2/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17
Other Petroleum 5/	4.27	4.03	4.05	3.96	4.24	4.34	4.37	4.41	4.40	4.38	4.37	4.43	4.53
Petroleum Subtotal	9.04	9.00	8.98	8.90	9.27	9.42	9.53	9.61	9.59	9.63	9.70	9.84	10.04
Natural Gas	7.56	7.43	7.41	7.76	7.94	8.05	8.18	8.27	8.42	8.62	8.80	8.89	8.99
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42	1.44	1.45
Natural Gas Subtotal	8.67	8.78	8.44	8.78	9.02	9.20	9.39	9.55	9.75	10.02	10.22	10.33	10.45
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63	0.62	0.61
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.40	1.41	1.41	1.42	1.42
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.06	2.06	2.05	2.04
Renewable Energy 7/	1.64	1.66	1.66	1.72	1.79	1.84	1.87	1.91	1.95	2.00	2.05	2.10	2.16
Electricity	3.29	3.39	3.34	3.42	3.52	3.59	3.66	3.72	3.76	3.82	3.89	3.95	4.02
Delivered Energy	24.89	24.94	24.52	24.94	25.70	26.15	26.54	26.86	27.12	27.53	27.91	28.28	28.70
Electricity Related Losses	7.44	7.53	7.39	7.53	7.73	7.89	8.03	8.12	8.13	8.22	8.32	8.42	8.52
Total	32.33	32.47	31.91	32.47	33.43	34.03	34.57	34.98	35.26	35.75	36.23	36.70	37.22
<b>Transportation</b>													
Distillate Fuel 8/	5.32	5.12	5.16	5.37	5.58	5.76	5.93	6.08	6.24	6.42	6.60	6.78	6.95



Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01	4.11	4.20
Motor Gasoline 2/	16.17	16.62	16.95	17.53	18.04	18.45	18.80	19.16	19.52	19.88	20.23	20.61	20.99
Residual Fuel	0.84	0.71	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80
Liquefied Petroleum Gas	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06
Other Petroleum 10/	0.19	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
Petroleum Subtotal	25.96	26.06	26.41	27.29	28.13	28.84	29.45	30.07	30.69	31.34	31.96	32.61	33.27
Pipeline Fuel Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70	0.71	0.72
Compressed Natural Gas	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Electricity	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10
Delivered Energy	26.69	26.79	27.18	28.07	28.91	29.63	30.25	30.88	31.51	32.18	32.82	33.49	34.16
Electricity Related Losses	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20
Total	26.85	26.96	27.36	28.24	29.09	29.81	30.43	31.07	31.70	32.37	33.01	33.68	34.36
Delivered Energy Consumption, All Sectors													
Distillate Fuel	7.92	7.66	7.83	8.02	8.26	8.46	8.64	8.80	8.95	9.15	9.35	9.54	9.74
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01	4.11	4.20
Liquefied Petroleum Gas	2.70	2.86	2.73	2.79	2.87	2.91	2.97	3.01	3.03	3.07	3.11	3.16	3.21
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.24	18.65	19.01	19.37	19.72	20.09	20.44	20.82	21.21
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37	1.39	1.41
Residual Fuel	1.07	1.00	1.10	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14	1.14	1.15
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.47	4.56	4.60	4.64	4.63	4.61	4.60	4.67	4.77
Petroleum Subtotal	37.25	37.26	37.74	38.63	39.86	40.75	41.48	42.20	42.79	43.48	44.18	44.99	45.84
Natural Gas	15.81	15.71	15.90	16.31	16.58	16.87	17.12	17.34	17.60	17.94	18.23	18.40	18.53
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42	1.44	1.45
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70	0.71	0.72
Natural Gas Subtotal	17.57	17.72	17.60	17.99	18.33	18.68	19.00	19.29	19.61	20.03	20.35	20.55	20.70
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63	0.62	0.61
Steam Coal	1.62	1.58	1.51	1.51	1.52	1.52	1.52	1.52	1.51	1.52	1.52	1.53	1.53
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	2.36	2.23	2.22	2.22	2.22	2.21	2.20	2.19	2.18	2.17	2.17	2.16	2.15
Renewable Energy 13/	2.09	2.15	2.17	2.23	2.29	2.34	2.38	2.41	2.45	2.50	2.56	2.61	2.67
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
Electricity	11.55	11.92	11.93	12.22	12.52	12.80	13.07	13.34	13.57	13.83	14.10	14.37	14.62
Delivered Energy	70.83	71.27	71.66	73.29	75.23	76.77	78.12	79.42	80.60	82.03	83.35	84.67	85.97
Electricity Related Losses	26.12	26.45	26.43	26.91	27.52	28.09	28.65	29.14	29.32	29.75	30.17	30.61	30.94
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52	115.28	116.92
Electric Generators 14/													
Distillate Fuel	0.33	0.16	0.17	0.17	0.19	0.19	0.20	0.23	0.20	0.16	0.19	0.28	0.32
Residual Fuel	0.91	0.69	0.83	0.38	0.47	0.46	0.48	0.52	0.51	0.51	0.53	0.56	0.58
Petroleum Subtotal	1.25	0.85	1.01	0.55	0.66	0.65	0.68	0.75	0.71	0.66	0.72	0.84	0.90
Natural Gas	5.48	5.65	5.06	5.78	5.81	5.98	6.13	6.48	6.48	6.79	7.05	7.32	7.52
Steam Coal	19.68	19.96	20.37	20.38	20.96	21.54	22.10	22.34	22.76	23.05	23.27	23.49	23.70
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35	8.38	8.41
Renewable Energy/Other 15/	3.16	3.69	3.81	4.18	4.25	4.33	4.42	4.50	4.59	4.68	4.77	4.84	4.93
Electricity Imports	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11	0.11	0.11
Total	37.67	38.36	38.35	39.13	40.04	40.89	41.72	42.48	42.89	43.58	44.27	44.98	45.56
Total Energy Consumption													
Distillate Fuel	8.26	7.82	8.01	8.19	8.44	8.65	8.84	9.03	9.15	9.31	9.54	9.82	10.06

Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01	4.11	4.20
Liquefied Petroleum Gas	2.70	2.86	2.73	2.79	2.87	2.91	2.97	3.01	3.03	3.07	3.11	3.16	3.21
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.24	18.65	19.01	19.37	19.72	20.09	20.44	20.82	21.21
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37	1.39	1.41
Residual Fuel	1.98	1.69	1.93	1.50	1.60	1.59	1.61	1.65	1.64	1.64	1.67	1.70	1.72
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.47	4.56	4.60	4.64	4.63	4.61	4.60	4.67	4.77
Petroleum Subtotal	38.49	38.11	38.75	39.18	40.52	41.40	42.16	42.94	43.50	44.15	44.90	45.82	46.74
Natural Gas	21.30	21.36	20.96	22.09	22.39	22.85	23.25	23.82	24.08	24.73	25.28	25.72	26.05
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42	1.44	1.45
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70	0.71	0.72
Natural Gas Subtotal	23.05	23.37	22.66	23.77	24.14	24.66	25.13	25.77	26.09	26.82	27.40	27.87	28.22
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63	0.62	0.61
Steam Coal	21.30	21.54	21.89	21.89	22.48	23.06	23.62	23.85	24.28	24.57	24.79	25.02	25.23
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	22.04	22.18	22.59	22.60	23.18	23.75	24.30	24.53	24.95	25.23	25.44	25.65	25.85
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35	8.38	8.41
Renewable Energy 16/	5.25	5.84	5.98	6.41	6.54	6.67	6.79	6.92	7.04	7.18	7.32	7.45	7.59
Electricity Imports	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11	0.11	0.11
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52	115.28	116.92
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	70.83	71.27	71.66	73.29	75.23	76.77	78.12	79.42	80.60	82.03	83.35	84.67	85.97
Total Energy Use	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52	115.28	116.92
Population (millions)	285.92	288.93	291.68	294.24	296.76	299.27	301.77	304.27	306.77	309.28	311.79	314.33	316.90
US GDP (billion 1996 dollars)	9215	9440	9657	10019	10402	10764	11129	11496	11839	12190	12543	12906	13313
Carbon Dioxide Emissions (million metric tons carbon dioxide equivalent)	5691.7	5729.4	5743.3	5826.0	5985.9	6124.4	6250.5	6357.2	6452.7	6558.8	6657.4	6762.7	6857.3

Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Energy Consumption</b>													
<b>Residential</b>													
Distillate Fuel	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	-0.5%
Kerosene	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	1.3%
Liquefied Petroleum Gas	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.64	0.8%
Petroleum Subtotal	1.59	1.59	1.58	1.58	1.57	1.57	1.56	1.55	1.55	1.54	1.54	1.53	0.1%
Natural Gas	5.81	5.84	5.89	5.91	5.96	6.02	6.08	6.10	6.13	6.17	6.23	6.26	0.9%
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	-0.3%
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.1%
Delivered Energy	5.15	5.22	5.30	5.36	5.43	5.51	5.60	5.65	5.73	5.80	5.90	5.96	1.4%
Electricity Related Losses	12.97	13.06	13.19	13.27	13.38	13.51	13.66	13.72	13.82	13.94	14.09	14.17	1.0%
Total	10.83	10.92	11.04	11.11	11.18	11.30	11.43	11.49	11.60	11.71	11.86	11.95	1.0%
Total	23.80	23.98	24.23	24.38	24.57	24.81	25.10	25.21	25.42	25.65	25.95	26.12	1.0%
<b>Commercial</b>													
Distillate Fuel	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.69	0.69	0.70	1.6%
Residual Fuel	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	2.2%
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	1.4%
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.3%
Motor Gasoline 2/ Petroleum Subtotal	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%
Petroleum Subtotal	0.94	0.95	0.96	0.96	0.97	0.97	0.97	0.98	0.99	0.99	1.00	1.00	1.4%
Natural Gas	3.70	3.72	3.75	3.79	3.84	3.89	3.94	3.97	4.01	4.05	4.10	4.16	1.1%
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	0.0%
Renewable Energy 3/ Electricity	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%
Delivered Energy	5.53	5.64	5.74	5.86	5.98	6.11	6.24	6.35	6.47	6.58	6.70	6.83	2.2%
Electricity Related Losses	10.37	10.51	10.65	10.81	10.98	11.17	11.35	11.50	11.66	11.82	12.00	12.19	1.7%
Total	11.62	11.79	11.96	12.15	12.32	12.53	12.73	12.91	13.09	13.28	13.48	13.70	1.8%
Total	21.99	22.30	22.61	22.96	23.30	23.70	24.07	24.42	24.75	25.11	25.48	25.89	1.7%
<b>Industrial 4/</b>													
Distillate Fuel	1.25	1.27	1.28	1.29	1.31	1.32	1.34	1.36	1.37	1.39	1.41	1.43	0.9%
Liquefied Petroleum Gas	2.50	2.53	2.57	2.62	2.66	2.70	2.74	2.78	2.81	2.86	2.90	2.94	1.2%
Petrochemical Feedstocks	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57	1.59	1.60	1.62	1.2%
Residual Fuel	0.22	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.5%
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.8%
Petroleum Subtotal	4.63	4.68	4.73	4.78	4.83	4.88	4.93	4.99	5.06	5.11	5.13	5.17	1.1%
Petroleum Subtotal	10.19	10.31	10.43	10.56	10.70	10.82	10.95	11.08	11.23	11.36	11.46	11.59	1.1%
Natural Gas	9.05	9.12	9.24	9.39	9.56	9.70	9.84	9.92	10.06	10.24	10.40	10.58	1.5%
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64	1.65	1.68	1.69	1.0%
Natural Gas Subtotal	10.52	10.60	10.72	10.90	11.13	11.33	11.49	11.56	11.70	11.89	12.09	12.27	1.5%
Metallurgical Coal	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	-1.2%
Steam Coal	1.43	1.43	1.43	1.43	1.44	1.44	1.45	1.45	1.45	1.46	1.46	1.47	0.0%
Net Coal Coke Imports Coal Subtotal	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	-4.5%
Coal Subtotal	2.03	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96	1.95	1.95	1.95	-0.4%
Renewable Energy 7/ Electricity	2.21	2.26	2.30	2.35	2.40	2.44	2.48	2.52	2.56	2.60	2.65	2.70	2.1%
Delivered Energy	4.08	4.15	4.21	4.29	4.35	4.41	4.47	4.53	4.60	4.68	4.76	4.85	1.6%
Electricity Related Losses	29.03	29.32	29.67	30.09	30.57	30.98	31.36	31.65	32.04	32.49	32.91	33.35	1.3%
Total	8.59	8.67	8.77	8.88	8.96	9.04	9.12	9.20	9.32	9.44	9.57	9.72	1.1%
Total	37.61	37.99	38.44	38.97	39.53	40.02	40.48	40.85	41.36	41.93	42.48	43.07	1.2%
<b>Transportation</b>													
Distillate Fuel 8/	7.11	7.25	7.40	7.57	7.72	7.86	8.02	8.16	8.34	8.53	8.72	8.94	2.5%

Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Jet Fuel 9/	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79	4.84	4.88	4.91	1.7%
Motor Gasoline 2/	21.31	21.62	21.91	22.20	22.50	22.80	23.11	23.45	23.79	24.16	24.55	24.98	1.8%
Residual Fuel	0.80	0.80	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.83	0.6%
Liquefied Petroleum Gas	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	6.7%
Other Petroleum 10/	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	1.2%
Petroleum Subtotal	33.85	34.37	34.88	35.42	35.96	36.48	37.00	37.55	38.13	38.73	39.37	40.07	1.9%
Pipeline Fuel Natural Gas	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82	0.84	0.85	0.86	1.2%
Compressed Natural Gas	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	9.2%
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.6%
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	N/A
Electricity	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	2.1%
Delivered Energy	34.74	35.28	35.79	36.34	36.93	37.50	38.05	38.59	39.17	39.80	40.46	41.16	1.9%
Electricity Related Losses	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	1.6%
Total	34.95	35.48	36.00	36.55	37.15	37.72	38.27	38.82	39.40	40.03	40.69	41.40	1.9%
Delivered Energy Consumption, All Sectors													
Distillate Fuel	9.91	10.07	10.23	10.40	10.56	10.71	10.88	11.04	11.22	11.43	11.64	11.88	1.9%
Kerosene	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.13	1.7%
Jet Fuel 9/	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79	4.84	4.88	4.91	1.7%
Liquefied Petroleum Gas	3.24	3.28	3.33	3.38	3.43	3.48	3.53	3.57	3.61	3.66	3.71	3.76	1.2%
Motor Gasoline 2/	21.53	21.84	22.13	22.43	22.73	23.03	23.34	23.68	24.03	24.40	24.79	25.22	1.8%
Petrochemical Feedstocks	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57	1.59	1.60	1.62	1.2%
Residual Fuel	1.15	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.18	1.18	1.18	1.19	0.8%
Other Petroleum 12/	4.88	4.93	4.99	5.03	5.10	5.15	5.21	5.27	5.34	5.40	5.43	5.46	1.1%
Petroleum Subtotal	46.58	47.22	47.86	48.51	49.19	49.83	50.50	51.17	51.89	52.62	53.37	54.18	1.6%
Natural Gas	18.64	18.76	18.97	19.18	19.45	19.71	19.95	20.08	20.30	20.57	20.85	21.11	1.3%
Lease and Plant Fuel 6/	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64	1.65	1.68	1.69	1.0%
Pipeline Natural Gas	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82	0.84	0.85	0.86	1.2%
Natural Gas Subtotal	20.82	20.96	21.16	21.41	21.79	22.16	22.43	22.55	22.76	23.06	23.38	23.66	1.3%
Metallurgical Coal	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	-1.2%
Steam Coal	1.54	1.54	1.54	1.54	1.55	1.55	1.56	1.56	1.56	1.57	1.57	1.58	0.0%
Net Coal Coke Imports	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	-4.5%
Coal Subtotal	2.14	2.12	2.11	2.10	2.10	2.09	2.08	2.07	2.07	2.06	2.06	2.06	-0.3%
Renewable Energy 13/	2.72	2.76	2.81	2.86	2.91	2.95	2.99	3.03	3.07	3.11	3.16	3.21	1.8%
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	N/A
Electricity	14.87	15.11	15.36	15.61	15.88	16.14	16.41	16.65	16.91	17.18	17.48	17.77	1.8%
Delivered Energy	87.11	88.17	89.30	90.50	91.87	93.16	94.42	95.47	96.69	98.05	99.45	100.87	1.5%
Electricity Related Losses	31.24	31.57	31.98	32.35	32.68	33.09	33.50	33.83	34.24	34.68	35.15	35.61	1.3%
Total	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93	132.73	134.61	136.48	1.5%
Electric Generators 14/													
Distillate Fuel	0.37	0.44	0.41	0.38	0.33	0.30	0.26	0.31	0.28	0.24	0.26	0.27	2.4%
Residual Fuel	0.60	0.60	0.62	0.63	0.62	0.59	0.59	0.59	0.57	0.55	0.55	0.54	-1.1%
Petroleum Subtotal	0.97	1.04	1.03	1.01	0.94	0.89	0.85	0.90	0.85	0.79	0.82	0.81	-0.2%
Natural Gas	7.69	7.78	8.07	8.28	8.59	8.75	8.78	8.62	8.55	8.43	8.59	8.55	1.8%
Steam Coal	23.91	24.20	24.51	24.87	25.17	25.66	26.22	26.81	27.57	28.46	28.97	29.67	1.7%
Nuclear Power	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.53	8.53	0.2%
Renewable Energy/Other 15/	4.99	5.08	5.13	5.19	5.24	5.34	5.47	5.56	5.60	5.62	5.70	5.79	2.0%
Electricity Imports	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	-4.6%
Total	46.11	46.68	47.34	47.97	48.55	49.23	49.92	50.47	51.15	51.86	52.63	53.37	1.4%
Total Energy Consumption													
Distillate Fuel	10.28	10.51	10.63	10.78	10.89	11.01	11.14	11.34	11.51	11.67	11.91	12.15	1.9%

Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Kerosene	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.13	1.7%
Jet Fuel 9/	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79	4.84	4.88	4.91	1.7%
Liquefied Petroleum Gas	3.24	3.28	3.33	3.38	3.43	3.48	3.53	3.57	3.61	3.66	3.71	3.76	1.2%
Motor Gasoline 2/	21.53	21.84	22.13	22.43	22.73	23.03	23.34	23.68	24.03	24.40	24.79	25.22	1.8%
Petrochemical Feedstocks	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57	1.59	1.60	1.62	1.2%
Residual Fuel	1.75	1.76	1.78	1.79	1.78	1.76	1.76	1.76	1.75	1.73	1.74	1.72	0.1%
Other Petroleum 12/	4.88	4.93	4.99	5.03	5.10	5.15	5.21	5.27	5.34	5.40	5.43	5.46	1.1%
Petroleum Subtotal	47.55	48.26	48.88	49.53	50.13	50.72	51.35	52.06	52.74	53.42	54.19	54.99	1.6%
Natural Gas	26.33	26.54	27.04	27.46	28.04	28.46	28.73	28.71	28.86	29.01	29.44	29.66	1.4%
Lease and Plant Fuel 6/	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64	1.65	1.68	1.69	1.0%
Pipeline Natural Gas	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82	0.84	0.85	0.86	1.2%
Natural Gas Subtotal	28.51	28.74	29.24	29.69	30.39	30.91	31.21	31.18	31.32	31.49	31.98	32.21	1.4%
Metallurgical Coal	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	-1.2%
Steam Coal	25.45	25.74	26.05	26.41	26.73	27.21	27.78	28.36	29.13	30.03	30.54	31.25	1.6%
Net Coal Coke Imports	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	-4.5%
Coal Subtotal	26.05	26.32	26.62	26.97	27.27	27.74	28.30	28.88	29.64	30.52	31.03	31.73	1.6%
Nuclear Power	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.53	8.53	0.2%
Renewable Energy 16/	7.71	7.84	7.94	8.05	8.15	8.28	8.46	8.58	8.66	8.73	8.85	9.00	1.9%
Electricity Imports	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	-4.6%
Total	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93	132.73	134.61	136.48	1.5%
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	87.11	88.17	89.30	90.50	91.87	93.16	94.42	95.47	96.69	98.05	99.45	100.87	1.5%
Total Energy Use	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93	132.73	134.61	136.48	1.5%
Population (millions)	319.43	321.95	324.47	327.01	329.54	332.08	334.61	337.16	339.72	342.30	344.90	347.53	0.8%
US GDP (billion 1996 dollars)	13715	14101	14497	14918	15351	15756	16188	16589	17035	17500	17980	18520	3.0%
Carbon Dioxide Emissions (million metric tons carbon dioxide equivalent)	6944.1	7028.4	7123.0	7219.2	7320.0	7428.8	7535.6	7634.2	7754.5	7888.9	8012.3	8142.0	1.5%

Table 10. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
United States

1/ Includes wood used for residential heating. See Table A18 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/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

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

6/ Represents natural gas used in the field gathering and processing plant machinery.

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

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, 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 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 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: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 11. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Residential</b>	15.36	14.03	15.11	14.17	13.51	13.26	13.19	13.25	13.37	13.45	13.64	13.87	14.11
Primary Energy 1/	10.39	9.06	10.40	9.73	9.26	9.13	9.07	9.08	9.04	8.97	9.04	9.11	9.24
Petroleum Products 2/	9.53	8.70	9.75	8.97	8.54	8.47	8.42	8.47	8.48	8.41	8.46	8.50	8.60
Distillate Fuel	8.97	8.10	8.96	8.17	7.89	7.81	7.73	7.76	7.75	7.67	7.70	7.73	7.82
Liquefied Petroleum Gas	17.50	16.06	20.47	20.04	17.65	17.70	17.78	17.90	18.01	18.00	18.18	18.25	18.35
Natural Gas	12.35	9.85	11.76	11.42	10.87	10.57	10.46	10.38	10.22	10.12	10.24	10.36	10.53
Electricity	35.42	32.74	33.63	31.81	30.16	29.25	28.94	28.97	29.51	30.00	30.47	31.13	31.57
<b>Commercial</b>	17.72	16.45	16.26	15.13	14.17	13.73	13.47	13.40	13.58	13.66	13.84	14.17	14.48
Primary Energy 1/	8.58	7.54	8.62	7.92	7.43	7.26	7.22	7.24	7.17	7.12	7.21	7.30	7.44
Petroleum Products 2/	6.91	6.86	7.49	6.78	6.31	6.22	6.19	6.24	6.23	6.17	6.21	6.24	6.32
Distillate Fuel	6.79	6.53	7.22	6.59	6.11	6.02	5.95	5.98	5.97	5.89	5.92	5.95	6.04
Residual Fuel	3.04	3.89	4.59	3.82	3.54	3.55	3.59	3.64	3.67	3.70	3.74	3.77	3.81
Natural Gas	9.82	8.09	9.64	8.98	8.45	8.19	8.13	8.11	7.98	7.92	8.05	8.19	8.36
Electricity	31.34	29.05	28.30	26.07	24.19	23.25	22.52	22.22	22.64	22.85	23.05	23.61	24.04
<b>Industrial 3/</b>	9.83	8.94	9.87	8.89	8.35	8.20	8.15	8.15	8.11	8.00	8.00	8.10	8.28
Primary Energy	5.44	4.89	6.38	5.46	5.13	5.07	5.11	5.18	5.17	5.19	5.28	5.35	5.49
Petroleum Products 2/	5.27	5.29	6.07	5.52	5.30	5.34	5.38	5.45	5.48	5.49	5.53	5.53	5.61
Distillate Fuel	6.53	6.59	7.29	6.65	6.19	6.11	6.04	6.06	6.05	5.98	6.00	6.04	6.13
Liquefied Petroleum Gas	11.85	11.73	14.95	14.64	12.22	12.27	12.34	12.46	12.58	12.57	12.74	12.82	12.92
Residual Fuel	3.05	3.87	4.56	3.79	3.53	3.53	3.58	3.62	3.66	3.69	3.72	3.76	3.80
Natural Gas 4/	5.75	4.55	6.91	5.51	5.06	4.89	4.94	5.01	4.98	5.00	5.13	5.28	5.48
Metallurgical 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
Steam Coal	2.42	2.41	2.59	2.56	2.52	2.52	2.50	2.51	2.49	2.49	2.49	2.47	2.47
Electricity	26.83	24.96	24.12	22.75	21.29	20.70	20.18	19.85	19.58	18.96	18.57	18.75	19.06
<b>Transportation</b>	11.79	11.26	12.66	11.55	11.48	11.47	11.52	11.60	11.57	11.54	11.63	11.55	11.55
Primary Energy	11.72	11.20	12.60	11.49	11.43	11.42	11.47	11.56	11.52	11.49	11.58	11.50	11.49
Petroleum Products 2/	11.73	11.21	12.61	11.50	11.43	11.43	11.48	11.57	11.53	11.50	11.59	11.51	11.50
Distillate Fuel 5/	10.78	10.27	11.35	10.36	10.32	10.62	10.90	10.94	10.87	10.83	10.93	10.92	10.81
Jet Fuel 6/	6.49	6.26	7.05	6.63	6.50	6.14	6.06	6.09	6.10	6.08	6.16	6.16	6.16
Motor Gasoline 7/	12.51	11.93	13.42	12.21	12.14	12.11	12.13	12.24	12.20	12.18	12.27	12.17	12.18
Residual Fuel	3.12	3.47	4.09	3.41	3.00	3.00	3.04	3.10	3.14	3.17	3.21	3.25	3.30
Liquefied Petroleum Gas8/	14.64	13.77	16.12	16.12	15.84	15.86	15.90	15.99	16.07	16.03	16.17	16.21	16.27
Natural Gas 9/	8.56	6.78	9.46	8.09	7.64	7.60	7.76	7.92	7.96	8.05	8.25	8.44	8.67
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	19.28	18.97	19.17	19.21	19.12	19.15	19.40	19.65	19.76
Electricity	29.92	28.00	29.22	27.61	25.92	25.12	24.80	24.81	25.19	25.52	25.85	26.41	26.77
<b>Average End-Use Energy</b>	13.52	12.55	13.57	12.51	12.05	11.88	11.83	11.87	11.91	11.92	12.03	12.12	12.25
Primary Energy	10.10	9.31	10.65	9.76	9.50	9.45	9.46	9.53	9.50	9.47	9.56	9.57	9.64
Electricity	31.93	29.63	29.55	27.61	25.88	25.01	24.47	24.28	24.60	24.74	24.92	25.43	25.82
<b>Electric Generators 11/</b>													
Fossil Fuel Average	3.82	3.60	4.12	3.76	3.36	3.35	3.39	3.48	3.48	3.49	3.56	3.67	3.77
Petroleum Products	4.16	3.86	4.46	3.77	3.28	3.31	3.35	3.42	3.47	3.50	3.54	3.61	3.78
Distillate Fuel	5.85	5.58	6.16	5.62	5.17	5.08	5.01	5.04	5.03	4.95	4.98	5.01	5.10
Residual Fuel	3.82	3.74	4.44	3.61	3.21	3.22	3.27	3.35	3.40	3.43	3.48	3.52	3.57
Natural Gas	4.92	4.52	5.94	4.77	4.33	4.23	4.32	4.45	4.42	4.44	4.58	4.73	4.92
Steam Coal	1.95	1.86	1.88	1.88	1.87	1.86	1.84	1.84	1.83	1.81	1.79	1.78	1.79

Table 11. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.76	9.45	9.83	9.74	9.37	9.42	9.41	9.44	9.42	9.40	9.46	9.40	9.37
Distillate Fuel	8.91	8.34	9.17	8.39	8.14	8.16	8.19	8.23	8.22	8.18	8.24	8.25	8.22
Jet Fuel	6.49	6.26	7.05	6.63	6.50	6.14	6.06	6.09	6.10	6.08	6.16	6.16	6.16
Liquefied Petroleum Gas	16.52	15.33	19.49	19.06	16.66	16.73	16.80	16.92	17.03	17.01	17.18	17.25	17.34
Motor Gasoline 7/	12.51	11.92	13.42	12.21	12.14	12.11	12.13	12.24	12.20	12.18	12.27	12.17	12.18
Residual Fuel	3.63	3.78	4.45	3.69	3.30	3.32	3.36	3.43	3.47	3.50	3.54	3.58	3.62
Natural Gas	7.86	6.38	8.67	7.10	6.73	6.48	6.50	6.53	6.45	6.43	6.56	6.68	6.90
Coal	1.96	1.88	1.90	1.90	1.89	1.88	1.85	1.86	1.85	1.82	1.81	1.80	1.81
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	19.28	18.97	19.17	19.21	19.12	19.15	19.40	19.65	19.76
Electricity	31.93	29.63	29.55	27.61	25.88	25.01	24.47	24.28	24.60	24.74	24.92	25.43	25.82
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	11.36	10.22	11.67	11.18	10.71	10.60	10.58	10.68	10.76	10.83	10.99	11.20	11.35
Commercial	7.77	7.01	7.42	6.89	6.61	6.57	6.57	6.64	6.81	6.95	7.12	7.36	7.58
Industrial	3.77	3.49	3.88	3.55	3.41	3.38	3.39	3.42	3.42	3.41	3.46	3.54	3.67
Transportation	12.09	11.72	13.41	12.64	12.93	13.20	13.49	13.81	13.99	14.19	14.51	14.64	14.86
Total Non-Renewable Expenditures	34.99	32.44	36.38	34.25	33.65	33.75	34.03	34.55	34.98	35.39	36.08	36.74	37.46
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	34.99	32.44	36.39	34.25	33.65	33.76	34.03	34.55	34.98	35.39	36.08	36.74	37.47



Table 11. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	14.30	14.40	14.53	14.61	14.71	14.76	14.81	14.97	15.04	15.09	15.19	15.26	0.4%
Primary Energy 1/	9.34	9.40	9.47	9.50	9.57	9.59	9.62	9.71	9.74	9.76	9.78	9.81	0.3%
Petroleum Products 2/	8.66	8.74	8.83	8.87	8.99	9.06	9.13	9.19	9.24	9.29	9.34	9.40	0.3%
Distillate Fuel	7.87	7.93	8.00	8.03	8.14	8.19	8.24	8.28	8.31	8.34	8.36	8.39	0.2%
Liquefied Petroleum Gas	18.39	18.56	18.67	18.72	18.79	18.86	18.92	18.98	19.03	19.10	19.15	19.27	0.8%
Natural Gas	10.68	10.71	10.73	10.70	10.67	10.57	10.51	10.65	10.63	10.58	10.53	10.50	0.3%
Electricity	31.88	31.85	31.98	32.01	32.01	31.92	31.81	31.96	31.96	31.91	32.03	32.00	-0.1%
Commercial	14.77	14.87	15.03	15.11	15.15	15.15	15.12	15.27	15.30	15.29	15.37	15.35	-0.3%
Primary Energy 1/	7.55	7.60	7.66	7.67	7.70	7.68	7.68	7.78	7.79	7.78	7.78	7.77	0.1%
Petroleum Products 2/	6.36	6.41	6.48	6.50	6.59	6.63	6.68	6.72	6.74	6.77	6.79	6.82	0.0%
Distillate Fuel	6.09	6.15	6.22	6.24	6.35	6.40	6.46	6.50	6.53	6.55	6.58	6.61	0.0%
Residual Fuel	3.86	3.87	3.91	3.94	3.96	3.98	3.99	4.03	4.05	4.07	4.10	4.11	0.2%
Natural Gas	8.53	8.57	8.62	8.61	8.58	8.50	8.46	8.60	8.60	8.56	8.52	8.49	0.2%
Electricity	24.45	24.50	24.70	24.79	24.75	24.68	24.53	24.65	24.62	24.51	24.61	24.52	-0.7%
Industrial 3/	8.45	8.51	8.60	8.64	8.65	8.61	8.57	8.66	8.65	8.62	8.63	8.60	-0.2%
Primary Energy	5.60	5.64	5.69	5.71	5.74	5.72	5.72	5.81	5.81	5.80	5.79	5.79	0.7%
Petroleum Products 2/	5.64	5.67	5.70	5.75	5.81	5.85	5.90	5.93	5.92	5.93	5.96	5.99	0.5%
Distillate Fuel	6.18	6.23	6.30	6.33	6.44	6.49	6.55	6.59	6.61	6.64	6.66	6.69	0.1%
Liquefied Petroleum Gas	12.96	13.12	13.23	13.29	13.36	13.43	13.48	13.54	13.60	13.66	13.72	13.84	0.7%
Residual Fuel	3.84	3.86	3.89	3.93	3.94	3.96	3.98	4.01	4.04	4.06	4.08	4.10	0.3%
Natural Gas 4/	5.67	5.71	5.79	5.79	5.77	5.70	5.66	5.81	5.82	5.78	5.75	5.72	1.0%
Metallurgical 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	N/A
Steam Coal	2.46	2.45	2.43	2.40	2.40	2.38	2.36	2.34	2.33	2.31	2.29	2.27	-0.2%
Electricity	19.44	19.54	19.78	19.90	19.85	19.80	19.64	19.79	19.79	19.72	19.80	19.67	-1.0%
Transportation	11.56	11.60	11.63	11.63	11.64	11.64	11.63	11.64	11.64	11.65	11.66	11.68	0.2%
Primary Energy	11.51	11.54	11.57	11.58	11.59	11.59	11.58	11.58	11.59	11.60	11.60	11.62	0.2%
Petroleum Products 2/	11.52	11.55	11.58	11.59	11.60	11.60	11.59	11.59	11.60	11.61	11.62	11.63	0.2%
Distillate Fuel 5/	10.86	10.87	10.87	10.86	10.85	10.81	10.74	10.75	10.76	10.79	10.77	10.78	0.2%
Jet Fuel 6/	6.16	6.16	6.16	6.19	6.28	6.29	6.30	6.33	6.35	6.37	6.38	6.45	0.1%
Motor Gasoline 7/	12.19	12.24	12.28	12.29	12.29	12.30	12.30	12.31	12.31	12.31	12.32	12.33	0.1%
Residual Fuel	3.35	3.36	3.40	3.43	3.44	3.46	3.47	3.51	3.53	3.54	3.57	3.58	0.1%
Liquefied Petroleum Gas8/	16.27	16.40	16.48	16.50	16.53	16.57	16.59	16.61	16.64	16.67	16.69	16.78	0.9%
Natural Gas 9/	8.89	8.96	9.05	9.06	9.05	8.98	8.94	9.08	9.09	9.05	9.02	8.99	1.2%
Ethanol (E85) 10/	19.85	19.95	20.02	20.08	20.12	20.15	20.23	20.33	20.38	20.43	20.49	20.54	1.3%
Electricity	27.05	26.96	27.05	27.04	26.93	26.78	26.58	26.68	26.63	26.52	26.57	26.43	-0.2%
Average End-Use Energy	12.37	12.43	12.51	12.55	12.57	12.57	12.57	12.64	12.66	12.66	12.69	12.70	0.1%
Primary Energy	9.71	9.75	9.80	9.81	9.84	9.84	9.84	9.89	9.90	9.91	9.91	9.93	0.3%
Electricity	26.18	26.20	26.38	26.44	26.40	26.33	26.19	26.32	26.30	26.21	26.31	26.22	-0.5%
Electric Generators 11/													
Fossil Fuel Average	3.87	3.90	3.96	3.98	4.02	4.02	4.00	4.10	4.12	4.14	4.13	4.04	0.5%
Petroleum Products	3.90	3.92	3.96	4.02	3.98	3.92	3.81	3.85	3.95	3.89	3.91	3.93	0.1%
Distillate Fuel	5.15	5.21	5.27	5.30	5.41	5.46	5.52	5.56	5.58	5.61	5.64	5.67	0.1%
Residual Fuel	3.63	3.64	3.68	3.72	3.72	3.74	3.74	3.78	3.80	3.82	3.85	3.86	0.1%
Natural Gas	5.10	5.15	5.23	5.24	5.25	5.19	5.16	5.31	5.32	5.30	5.27	5.24	0.6%
Steam Coal	1.78	1.78	1.77	1.75	1.74	1.73	1.71	1.71	1.70	1.70	1.69	1.68	-0.4%

Table 11. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.33	9.42	9.45	9.46	9.57	9.65	9.74	9.76	9.78	9.86	9.89	9.97	0.2%
Distillate Fuel	8.21	8.27	8.33	8.33	8.48	8.58	8.69	8.74	8.73	8.81	8.84	8.87	0.3%
Jet Fuel	6.16	6.16	6.16	6.19	6.28	6.29	6.30	6.33	6.35	6.37	6.38	6.45	0.1%
Liquefied Petroleum Gas	17.38	17.55	17.65	17.70	17.77	17.83	17.89	17.94	18.00	18.06	18.12	18.23	0.8%
Motor Gasoline 7/	12.19	12.24	12.28	12.29	12.29	12.30	12.30	12.31	12.31	12.31	12.32	12.33	0.1%
Residual Fuel	3.68	3.68	3.73	3.76	3.77	3.79	3.80	3.84	3.86	3.88	3.91	3.92	0.2%
Natural Gas	7.12	7.15	7.20	7.17	7.10	6.98	6.92	7.05	7.05	6.98	6.95	6.91	0.3%
Coal	1.80	1.80	1.79	1.76	1.76	1.74	1.73	1.73	1.72	1.71	1.71	1.70	-0.5%
Ethanol (E85) 10/	19.85	19.95	20.02	20.08	20.12	20.15	20.23	20.33	20.38	20.43	20.49	20.54	1.3%
Electricity	26.18	26.20	26.38	26.44	26.40	26.33	26.19	26.32	26.30	26.21	26.31	26.22	-0.5%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	11.48	11.56	11.69	11.72	11.80	11.85	11.93	12.03	12.10	12.15	12.28	12.31	0.8%
Commercial	7.80	7.92	8.08	8.20	8.31	8.40	8.48	8.66	8.77	8.86	9.01	9.11	1.1%
Industrial	3.79	3.85	3.94	4.02	4.09	4.12	4.16	4.25	4.30	4.35	4.41	4.47	1.1%
Transportation	15.06	15.27	15.47	15.64	15.81	15.97	16.12	16.31	16.51	16.73	16.96	17.23	1.7%
Total Non-Renewable Expenditures	38.14	38.60	39.17	39.58	40.01	40.34	40.69	41.24	41.68	42.09	42.65	43.11	1.2%
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	8.7%
Total Expenditures	38.14	38.60	39.18	39.58	40.02	40.34	40.69	41.24	41.68	42.09	42.66	43.12	1.2%

Table 11. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
New England

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 12. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	15.78	14.74	15.24	14.42	13.92	13.52	13.30	13.27	13.40	13.45	13.70	14.04	14.30
Primary Energy 1/	10.29	8.75	10.45	9.91	9.45	9.26	9.18	9.17	9.06	8.97	9.08	9.20	9.35
Petroleum Products 2/	10.00	9.13	10.27	9.46	9.05	8.99	8.94	8.99	9.01	8.95	9.01	9.06	9.16
Distillate Fuel	9.36	8.50	9.40	8.57	8.29	8.20	8.13	8.16	8.15	8.07	8.10	8.13	8.22
Liquefied Petroleum Gas	18.22	16.09	20.51	20.08	18.19	18.25	18.32	18.44	18.56	18.55	18.72	18.79	18.90
Natural Gas	10.48	8.58	10.57	10.18	9.69	9.43	9.33	9.30	9.12	9.01	9.15	9.31	9.47
Electricity	33.95	33.17	30.88	28.96	28.16	26.96	26.10	25.84	26.59	26.97	27.59	28.49	28.97
Commercial	16.17	14.89	14.12	13.26	12.56	12.09	11.80	11.81	12.06	12.13	12.42	12.89	13.26
Primary Energy 1/	8.36	6.46	8.08	7.34	6.90	6.73	6.69	6.70	6.60	6.53	6.64	6.76	6.90
Petroleum Products 2/	6.01	6.05	6.70	5.97	5.57	5.52	5.49	5.53	5.53	5.48	5.51	5.54	5.61
Distillate Fuel	6.36	6.23	6.89	6.29	5.78	5.69	5.62	5.64	5.64	5.56	5.59	5.62	5.71
Residual Fuel	3.67	4.34	5.12	4.27	4.18	4.20	4.22	4.25	4.28	4.30	4.33	4.36	4.39
Natural Gas	9.28	6.69	8.77	8.06	7.58	7.35	7.29	7.30	7.14	7.06	7.19	7.36	7.53
Electricity	30.94	29.71	25.64	23.71	22.37	21.31	20.47	20.34	21.13	21.37	21.90	22.89	23.52
Industrial 3/	6.89	6.57	7.27	6.55	6.31	6.24	6.25	6.36	6.40	6.39	6.48	6.64	6.82
Primary Energy	4.78	4.45	5.49	4.82	4.64	4.60	4.63	4.70	4.69	4.71	4.78	4.84	4.95
Petroleum Products 2/	5.57	5.48	6.36	5.84	5.71	5.72	5.75	5.81	5.83	5.85	5.88	5.87	5.93
Distillate Fuel	6.40	6.33	7.00	6.39	5.92	5.83	5.76	5.79	5.78	5.70	5.73	5.76	5.85
Liquefied Petroleum Gas	12.81	11.87	15.12	14.81	12.66	12.71	12.79	12.91	13.02	13.01	13.19	13.26	13.36
Residual Fuel	3.41	4.14	4.88	4.07	3.98	4.00	4.02	4.05	4.08	4.10	4.13	4.16	4.19
Natural Gas 4/	6.16	4.83	6.98	5.53	5.11	4.97	5.01	5.11	5.04	5.04	5.18	5.35	5.54
Metallurgical Coal	1.76	1.92	2.08	2.07	2.04	2.03	2.01	2.01	2.01	2.01	1.99	1.97	1.96
Steam Coal	1.33	1.40	1.49	1.48	1.47	1.45	1.45	1.47	1.46	1.46	1.46	1.44	1.43
Electricity	18.19	17.66	16.85	15.73	15.14	14.82	14.62	14.91	15.17	14.89	14.99	15.62	16.07
Transportation	10.43	10.00	11.23	10.26	10.43	10.45	10.51	10.57	10.55	10.54	10.62	10.58	10.57
Primary Energy	10.37	9.95	11.18	10.21	10.39	10.41	10.48	10.54	10.52	10.51	10.58	10.53	10.53
Petroleum Products 2/	10.37	9.95	11.18	10.21	10.39	10.41	10.48	10.54	10.52	10.51	10.58	10.53	10.53
Distillate Fuel 5/	10.46	9.83	10.87	9.91	9.95	10.24	10.53	10.56	10.49	10.46	10.54	10.53	10.42
Jet Fuel 6/	6.25	5.95	6.69	6.29	6.09	5.73	5.65	5.68	5.69	5.70	5.80	5.82	5.84
Motor Gasoline 7/	11.75	11.18	12.57	11.45	11.73	11.75	11.79	11.86	11.84	11.82	11.89	11.81	11.83
Residual Fuel	3.25	3.81	4.49	3.74	3.81	3.83	3.85	3.88	3.91	3.93	3.96	3.99	4.02
Liquefied Petroleum Gas8/	16.30	15.11	16.40	16.40	15.88	15.90	15.95	16.04	16.12	16.08	16.21	16.25	16.32
Natural Gas 9/	10.05	9.09	11.31	9.84	9.48	9.46	9.59	9.75	9.73	9.77	9.92	10.10	10.25
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	17.56	17.67	17.91	18.00	17.91	17.94	18.19	18.43	18.54
Electricity	25.97	23.77	25.14	23.28	21.67	20.70	20.14	20.14	20.79	21.05	21.59	22.41	22.86
Average End-Use Energy	11.97	11.27	11.89	11.00	10.76	10.57	10.49	10.54	10.61	10.63	10.78	10.96	11.11
Primary Energy	8.84	8.02	9.36	8.60	8.48	8.43	8.45	8.50	8.46	8.44	8.52	8.56	8.63
Electricity	29.09	28.27	25.60	23.82	22.80	21.84	21.13	21.04	21.69	21.85	22.30	23.17	23.68
Electric Generators 11/													
Fossil Fuel Average	2.24	2.21	2.73	2.35	2.20	2.13	2.13	2.20	2.17	2.22	2.28	2.35	2.44
Petroleum Products	3.76	4.16	4.90	4.12	3.99	4.01	4.03	4.06	4.09	4.11	4.15	4.19	4.24
Distillate Fuel	5.76	5.56	6.15	5.61	5.12	5.03	4.96	4.99	4.98	4.90	4.93	4.96	5.05
Residual Fuel	3.49	4.06	4.76	3.97	3.91	3.93	3.95	3.98	4.00	4.03	4.06	4.09	4.11
Natural Gas	4.12	3.85	5.92	4.41	3.99	3.84	3.87	3.98	3.92	3.94	4.09	4.27	4.47
Steam Coal	1.34	1.38	1.35	1.36	1.34	1.32	1.31	1.32	1.30	1.30	1.29	1.27	1.26

Table 12. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.05	8.80	9.93	9.13	9.14	9.17	9.22	9.29	9.30	9.29	9.35	9.32	9.34
Distillate Fuel	9.14	8.60	9.44	8.66	8.48	8.57	8.66	8.71	8.68	8.64	8.71	8.72	8.73
Jet Fuel	6.25	5.95	6.69	6.29	6.09	5.73	5.65	5.68	5.69	5.70	5.80	5.82	5.84
Liquefied Petroleum Gas	15.65	14.15	17.98	17.62	15.64	15.71	15.79	15.92	16.04	16.03	16.20	16.27	16.36
Motor Gasoline 7/	11.75	11.18	12.56	11.45	11.73	11.75	11.79	11.86	11.84	11.82	11.89	11.82	11.83
Residual Fuel	3.43	4.03	4.76	3.97	3.95	3.97	3.99	4.02	4.05	4.07	4.10	4.13	4.16
Natural Gas	8.13	6.39	8.52	7.49	7.03	6.81	6.76	6.75	6.61	6.50	6.62	6.75	6.90
Coal	1.34	1.39	1.37	1.37	1.35	1.33	1.33	1.34	1.32	1.31	1.31	1.29	1.27
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	17.56	17.67	17.91	18.00	17.91	17.94	18.19	18.43	18.54
Electricity	29.09	28.27	25.60	23.82	22.80	21.84	21.13	21.04	21.69	21.85	22.30	23.17	23.68
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	26.80	25.15	27.38	26.00	25.11	24.55	24.23	24.28	24.45	24.55	24.96	25.57	25.88
Commercial	24.38	21.75	21.55	19.98	19.41	19.18	19.04	19.30	19.97	20.39	21.12	22.14	22.94
Industrial	10.10	9.38	10.35	9.42	9.26	9.23	9.29	9.51	9.60	9.66	9.89	10.24	10.63
Transportation	29.28	28.18	31.97	30.02	31.26	31.92	32.62	33.30	33.72	34.18	34.89	35.24	35.72
Total Non-Renewable Expenditures	90.56	84.46	91.25	85.42	85.04	84.89	85.19	86.39	87.74	88.77	90.86	93.19	95.17
Transportation Renewable Expenditures	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 Expenditures	90.56	84.46	91.25	85.42	85.04	84.90	85.19	86.40	87.74	88.78	90.86	93.20	95.18

Table 12. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	14.48	14.63	14.73	14.77	14.81	14.83	14.94	15.10	15.11	15.10	15.19	15.28	0.2%
Primary Energy 1/	9.45	9.55	9.56	9.57	9.60	9.59	9.64	9.75	9.74	9.75	9.75	9.76	0.5%
Petroleum Products 2/	9.23	9.31	9.40	9.45	9.57	9.64	9.72	9.78	9.82	9.87	9.92	9.98	0.4%
Distillate Fuel	8.27	8.33	8.39	8.42	8.53	8.58	8.64	8.68	8.70	8.73	8.76	8.79	0.1%
Liquefied Petroleum Gas	18.93	19.10	19.21	19.27	19.34	19.41	19.46	19.52	19.58	19.64	19.70	19.81	0.9%
Natural Gas	9.60	9.70	9.68	9.67	9.64	9.59	9.62	9.76	9.73	9.72	9.69	9.69	0.5%
Electricity	29.24	29.41	29.63	29.58	29.55	29.51	29.66	29.86	29.77	29.54	29.76	29.92	-0.4%
Commercial	13.53	13.75	13.91	13.95	13.97	13.98	14.10	14.30	14.30	14.24	14.35	14.49	-0.1%
Primary Energy 1/	7.01	7.09	7.10	7.11	7.12	7.10	7.14	7.25	7.24	7.24	7.23	7.24	0.5%
Petroleum Products 2/	5.65	5.70	5.76	5.78	5.86	5.91	5.96	5.99	6.02	6.04	6.07	6.10	0.0%
Distillate Fuel	5.76	5.81	5.88	5.91	6.02	6.07	6.13	6.17	6.19	6.22	6.25	6.27	0.0%
Residual Fuel	4.41	4.44	4.47	4.50	4.53	4.55	4.58	4.61	4.64	4.67	4.69	4.72	0.4%
Natural Gas	7.66	7.76	7.75	7.75	7.73	7.68	7.72	7.86	7.84	7.82	7.80	7.80	0.7%
Electricity	23.96	24.31	24.65	24.70	24.68	24.69	24.89	25.16	25.13	24.91	25.14	25.46	-0.7%
Industrial 3/	6.94	7.06	7.15	7.20	7.23	7.24	7.30	7.40	7.38	7.35	7.43	7.47	0.6%
Primary Energy	5.01	5.07	5.09	5.14	5.17	5.18	5.23	5.31	5.29	5.30	5.34	5.37	0.8%
Petroleum Products 2/	5.94	5.97	5.98	6.04	6.10	6.13	6.18	6.21	6.17	6.18	6.25	6.29	0.6%
Distillate Fuel	5.90	5.96	6.03	6.05	6.16	6.21	6.27	6.31	6.34	6.36	6.39	6.42	0.1%
Liquefied Petroleum Gas	13.40	13.57	13.68	13.73	13.80	13.87	13.93	13.99	14.04	14.11	14.16	14.28	0.8%
Residual Fuel	4.21	4.24	4.27	4.30	4.33	4.35	4.38	4.41	4.44	4.47	4.49	4.52	0.4%
Natural Gas 4/	5.69	5.79	5.80	5.81	5.79	5.75	5.79	5.93	5.91	5.90	5.88	5.87	0.9%
Metallurgical Coal	1.95	1.95	1.94	1.93	1.93	1.91	1.88	1.86	1.84	1.82	1.81	1.80	-0.3%
Steam Coal	1.41	1.40	1.40	1.39	1.39	1.38	1.39	1.39	1.39	1.39	1.38	1.38	-0.1%
Electricity	16.43	16.79	17.13	17.17	17.14	17.13	17.25	17.42	17.33	17.14	17.33	17.42	-0.1%
Transportation	10.59	10.62	10.65	10.66	10.67	10.67	10.67	10.69	10.70	10.72	10.73	10.76	0.3%
Primary Energy	10.55	10.57	10.60	10.61	10.63	10.63	10.62	10.64	10.65	10.67	10.68	10.71	0.3%
Petroleum Products 2/	10.55	10.57	10.60	10.61	10.63	10.63	10.62	10.64	10.65	10.67	10.68	10.71	0.3%
Distillate Fuel 5/	10.47	10.48	10.48	10.47	10.46	10.42	10.35	10.36	10.37	10.41	10.38	10.39	0.2%
Jet Fuel 6/	5.86	5.87	5.89	5.94	6.04	6.06	6.08	6.12	6.15	6.17	6.19	6.27	0.2%
Motor Gasoline 7/	11.84	11.87	11.90	11.91	11.92	11.92	11.93	11.93	11.93	11.94	11.95	11.96	0.3%
Residual Fuel	4.04	4.07	4.10	4.13	4.16	4.19	4.22	4.24	4.27	4.30	4.32	4.35	0.6%
Liquefied Petroleum Gas8/	16.32	16.45	16.52	16.55	16.58	16.61	16.63	16.66	16.68	16.71	16.74	16.83	0.5%
Natural Gas 9/	10.35	10.43	10.46	10.46	10.43	10.35	10.34	10.44	10.38	10.33	10.28	10.24	0.5%
Ethanol (E85) 10/	18.63	18.74	18.80	18.86	18.90	18.94	19.02	19.12	19.17	19.22	19.27	19.32	1.1%
Electricity	23.12	23.30	23.49	23.42	23.30	23.21	23.32	23.46	23.32	23.07	23.23	23.29	-0.1%
Average End-Use Energy	11.22	11.33	11.40	11.42	11.43	11.43	11.48	11.57	11.56	11.54	11.59	11.64	0.1%
Primary Energy	8.69	8.75	8.77	8.79	8.81	8.81	8.83	8.89	8.89	8.91	8.92	8.95	0.5%
Electricity	24.04	24.32	24.61	24.61	24.57	24.56	24.72	24.94	24.87	24.65	24.86	25.06	-0.5%
Electric Generators 11/													
Fossil Fuel Average	2.50	2.58	2.62	2.64	2.63	2.62	2.64	2.69	2.64	2.62	2.59	2.54	0.6%
Petroleum Products	4.30	4.40	4.36	4.41	4.41	4.44	4.46	4.50	4.53	4.53	4.59	4.60	0.4%
Distillate Fuel	5.10	5.16	5.23	5.26	5.36	5.41	5.47	5.51	5.54	5.56	5.59	5.62	0.0%
Residual Fuel	4.14	4.17	4.19	4.22	4.25	4.28	4.31	4.33	4.36	4.39	4.42	4.45	0.4%
Natural Gas	4.63	4.75	4.78	4.80	4.78	4.74	4.79	4.93	4.92	4.91	4.89	4.88	1.0%
Steam Coal	1.24	1.23	1.23	1.22	1.23	1.23	1.24	1.24	1.24	1.24	1.23	1.23	-0.5%

Table 12. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.36	9.38	9.43	9.45	9.49	9.52	9.53	9.56	9.57	9.60	9.63	9.67	0.4%
Distillate Fuel	8.77	8.78	8.87	8.88	8.96	8.98	8.98	9.02	9.05	9.10	9.10	9.14	0.3%
Jet Fuel	5.86	5.87	5.89	5.94	6.04	6.06	6.08	6.12	6.15	6.17	6.19	6.27	0.2%
Liquefied Petroleum Gas	16.40	16.57	16.68	16.73	16.79	16.86	16.92	16.97	17.02	17.08	17.06	17.16	0.8%
Motor Gasoline 7/	11.84	11.87	11.90	11.91	11.92	11.92	11.93	11.93	11.93	11.94	11.95	11.96	0.3%
Residual Fuel	4.18	4.21	4.24	4.27	4.29	4.32	4.35	4.38	4.41	4.44	4.46	4.49	0.5%
Natural Gas	7.02	7.09	7.05	7.03	7.00	6.93	6.96	7.08	7.07	7.05	7.03	7.02	0.4%
Coal	1.26	1.25	1.25	1.24	1.24	1.24	1.25	1.25	1.25	1.25	1.24	1.24	-0.5%
Ethanol (E85) 10/	18.63	18.74	18.80	18.86	18.90	18.94	19.02	19.12	19.17	19.22	19.27	19.32	1.1%
Electricity	24.04	24.32	24.61	24.61	24.57	24.56	24.72	24.94	24.87	24.65	24.86	25.06	-0.5%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	26.12	26.34	26.55	26.52	26.60	26.65	26.91	27.11	27.12	27.11	27.36	27.45	0.4%
Commercial	23.55	24.02	24.34	24.40	24.37	24.38	24.64	25.10	25.19	25.23	25.54	25.83	0.8%
Industrial	10.92	11.20	11.44	11.65	11.84	11.93	12.15	12.40	12.49	12.58	12.83	13.06	1.4%
Transportation	36.18	36.59	36.99	37.34	37.72	38.02	38.30	38.68	39.08	39.53	39.99	40.56	1.6%
Total Non-Renewable Expenditures	96.77	98.15	99.32	99.92	100.53	100.97	102.01	103.29	103.89	104.45	105.72	106.90	1.0%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.1%
Total Expenditures	96.77	98.16	99.33	99.92	100.54	100.98	102.02	103.30	103.90	104.46	105.73	106.91	1.0%

Table 12. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
Middle Atlantic

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 13. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	12.87	11.64	12.39	12.22	11.70	11.65	11.45	11.40	11.26	11.21	11.36	11.60	11.80
Primary Energy 1/	8.59	6.91	8.54	8.34	7.75	7.56	7.47	7.45	7.25	7.13	7.26	7.42	7.58
Petroleum Products 2/	12.04	10.62	13.07	12.53	10.73	10.77	10.82	10.92	11.01	11.01	11.15	11.23	11.32
Distillate Fuel	8.73	7.63	8.43	7.70	7.30	7.21	7.17	7.18	7.17	7.16	7.17	7.22	7.24
Liquefied Petroleum Gas	13.78	11.87	15.12	14.81	12.31	12.38	12.45	12.57	12.68	12.67	12.84	12.91	13.01
Natural Gas	8.25	6.55	8.12	7.93	7.47	7.25	7.15	7.11	6.89	6.75	6.89	7.05	7.22
Electricity	24.11	23.62	22.57	22.26	21.78	22.11	21.55	21.30	21.20	21.25	21.33	21.66	21.85
Commercial	13.47	12.72	12.75	12.54	12.08	11.75	11.51	11.48	11.44	11.46	11.62	11.95	12.21
Primary Energy 1/	7.56	6.14	7.70	7.21	6.71	6.53	6.47	6.47	6.31	6.22	6.34	6.49	6.63
Petroleum Products 2/	8.85	7.84	8.81	8.27	7.23	7.10	7.07	7.09	7.08	7.05	7.08	7.11	7.13
Distillate Fuel	6.46	5.82	6.43	5.88	5.26	5.17	5.13	5.14	5.13	5.12	5.13	5.18	5.20
Residual Fuel	2.85	3.69	4.36	3.62	3.29	3.32	3.35	3.37	3.40	3.43	3.46	3.48	3.51
Natural Gas	7.57	6.07	7.71	7.21	6.77	6.58	6.51	6.51	6.31	6.21	6.35	6.52	6.69
Electricity	21.35	21.09	19.56	19.29	18.81	18.28	17.78	17.65	17.72	17.86	18.03	18.52	18.82
Industrial 3/	6.49	6.02	6.92	6.32	6.05	5.98	5.99	6.05	6.06	6.06	6.12	6.30	6.43
Primary Energy	4.94	4.23	5.42	4.74	4.48	4.42	4.45	4.50	4.46	4.46	4.55	4.65	4.75
Petroleum Products 2/	6.75	5.97	6.82	6.35	5.98	5.91	5.94	5.96	5.99	6.01	6.07	6.13	6.16
Distillate Fuel	7.32	6.38	7.05	6.43	5.84	5.76	5.71	5.72	5.72	5.70	5.72	5.76	5.79
Liquefied Petroleum Gas	14.61	11.73	14.95	14.64	12.46	12.52	12.59	12.71	12.82	12.81	12.99	13.06	13.16
Residual Fuel	3.14	3.79	4.48	3.72	3.39	3.42	3.45	3.47	3.50	3.53	3.56	3.58	3.61
Natural Gas 4/	5.07	3.93	6.04	4.82	4.45	4.34	4.37	4.46	4.34	4.32	4.46	4.63	4.81
Metallurgical Coal	1.75	1.92	2.08	2.07	2.04	2.03	2.01	2.02	2.01	2.01	1.99	1.97	1.96
Steam Coal	1.50	1.52	1.63	1.61	1.59	1.59	1.59	1.61	1.60	1.60	1.59	1.57	1.56
Electricity	13.39	13.42	13.24	12.90	12.73	12.54	12.35	12.38	12.50	12.46	12.37	12.73	12.96
Transportation	11.38	10.33	11.60	10.60	10.46	10.59	10.68	10.69	10.67	10.72	10.77	10.75	10.73
Primary Energy	11.36	10.31	11.57	10.57	10.44	10.57	10.66	10.67	10.65	10.70	10.75	10.73	10.71
Petroleum Products 2/	11.36	10.31	11.57	10.58	10.44	10.57	10.66	10.67	10.65	10.71	10.75	10.73	10.71
Distillate Fuel 5/	10.30	9.46	10.46	9.54	9.40	9.80	10.04	10.00	9.91	10.07	10.17	10.15	10.05
Jet Fuel 6/	6.21	5.81	6.53	6.15	5.82	5.49	5.38	5.41	5.42	5.41	5.50	5.50	5.51
Motor Gasoline 7/	12.45	11.20	12.58	11.47	11.36	11.46	11.54	11.56	11.57	11.60	11.63	11.60	11.61
Residual Fuel	3.64	3.87	4.56	3.79	3.71	3.74	3.76	3.79	3.82	3.85	3.88	3.90	3.93
Liquefied Petroleum Gas8/	19.23	16.78	18.53	18.53	16.29	16.32	16.37	16.45	16.53	16.49	16.63	16.66	16.72
Natural Gas 9/	9.17	8.07	10.26	9.05	8.66	8.62	8.71	8.85	8.77	8.77	8.92	9.10	9.28
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.64	16.75	16.99	17.07	16.99	17.03	17.28	17.53	17.64
Electricity	17.91	17.33	19.07	18.45	18.07	17.46	17.06	16.93	16.94	17.02	17.11	17.47	17.65
Average End-Use Energy	10.27	9.47	10.37	9.77	9.44	9.42	9.39	9.40	9.37	9.39	9.47	9.61	9.72
Primary Energy	8.41	7.39	8.71	8.02	7.72	7.71	7.75	7.78	7.73	7.74	7.83	7.91	7.98
Electricity	19.28	19.09	18.23	17.93	17.54	17.39	16.97	16.87	16.90	16.94	16.98	17.37	17.60
Electric Generators 11/													
Fossil Fuel Average	1.35	1.37	1.60	1.53	1.47	1.46	1.45	1.48	1.46	1.46	1.50	1.53	1.57
Petroleum Products	4.88	5.32	6.03	5.54	4.93	4.86	4.81	4.83	4.84	4.84	4.80	4.84	4.87
Distillate Fuel	6.01	5.59	6.18	5.63	5.01	4.93	4.88	4.89	4.89	4.88	4.89	4.93	4.96
Residual Fuel	4.43	4.19	4.92	4.14	3.92	3.96	3.98	4.00	3.97	4.07	4.10	4.13	4.16
Natural Gas	3.94	3.57	5.33	4.06	3.69	3.57	3.59	3.68	3.56	3.52	3.67	3.84	4.03
Steam Coal	1.19	1.20	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.15

Table 13. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	10.30	9.37	10.56	9.74	9.49	9.57	9.65	9.67	9.69	9.74	9.80	9.80	9.80
Distillate Fuel	9.58	8.70	9.60	8.79	8.56	8.85	9.04	9.01	8.96	9.10	9.18	9.19	9.11
Jet Fuel	6.21	5.81	6.53	6.15	5.82	5.49	5.38	5.41	5.42	5.41	5.50	5.50	5.51
Liquefied Petroleum Gas	14.18	11.84	15.06	14.75	12.42	12.49	12.57	12.70	12.82	12.81	12.99	13.06	13.16
Motor Gasoline 7/	12.45	11.20	12.58	11.47	11.36	11.46	11.54	11.56	11.57	11.60	11.63	11.60	11.61
Residual Fuel	3.89	3.86	4.50	3.73	3.42	3.44	3.47	3.50	3.52	3.54	3.59	3.61	3.64
Natural Gas	6.76	5.35	7.06	6.26	5.83	5.66	5.63	5.63	5.44	5.35	5.46	5.61	5.76
Coal	1.22	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.19	1.19	1.18	1.18	1.18
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.64	16.75	16.99	17.07	16.99	17.03	17.28	17.53	17.64
Electricity	19.28	19.09	18.23	17.93	17.54	17.39	16.97	16.87	16.90	16.94	16.98	17.37	17.60
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	27.27	26.01	28.41	28.29	27.21	27.44	27.25	27.43	27.29	27.44	27.99	28.77	29.28
Commercial	19.85	18.64	18.94	18.66	18.33	18.19	18.05	18.12	18.16	18.30	18.63	19.20	19.65
Industrial	22.67	20.72	23.78	22.01	21.55	21.49	21.65	22.03	22.15	22.39	22.87	23.72	24.51
Transportation	43.65	40.00	45.15	42.45	43.05	44.47	45.60	46.36	47.00	48.00	48.93	49.59	50.25
Total Non-Renewable Expenditures	113.44	105.36	116.27	111.41	110.15	111.59	112.56	113.94	114.60	116.13	118.43	121.28	123.70
Transportation Renewable Expenditures	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 Expenditures	113.44	105.36	116.27	111.41	110.15	111.60	112.56	113.94	114.60	116.14	118.43	121.29	123.70

Table 13. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Residential</b>	11.94	12.11	12.19	12.21	12.21	12.16	12.25	12.41	12.41	12.41	12.51	12.54	0.3%
Primary Energy 1/	7.67	7.80	7.82	7.82	7.79	7.74	7.81	7.97	7.95	7.95	7.94	7.93	0.6%
Petroleum Products 2/	11.38	11.53	11.65	11.75	11.85	11.94	12.02	12.08	12.14	12.21	12.28	12.37	0.7%
Distillate Fuel	7.28	7.34	7.44	7.55	7.65	7.71	7.76	7.77	7.76	7.76	7.77	7.85	0.1%
Liquefied Petroleum Gas	13.05	13.22	13.32	13.38	13.44	13.51	13.57	13.62	13.68	13.73	13.79	13.85	0.7%
Natural Gas	7.31	7.44	7.45	7.44	7.39	7.33	7.41	7.57	7.55	7.54	7.53	7.51	0.6%
Electricity	21.98	22.11	22.23	22.22	22.20	22.05	22.11	22.15	22.08	21.98	22.21	22.24	-0.3%
<b>Commercial</b>	12.41	12.65	12.79	12.85	12.86	12.80	12.89	13.02	12.99	12.94	13.09	13.11	0.1%
Primary Energy 1/	6.72	6.84	6.86	6.87	6.84	6.80	6.87	7.01	6.99	6.99	6.98	6.97	0.6%
Petroleum Products 2/	7.15	7.19	7.27	7.35	7.42	7.46	7.50	7.50	7.49	7.48	7.48	7.53	-0.2%
Distillate Fuel	5.24	5.30	5.40	5.51	5.61	5.67	5.72	5.73	5.72	5.72	5.73	5.81	0.0%
Residual Fuel	3.54	3.57	3.60	3.63	3.66	3.69	3.72	3.75	3.77	3.81	3.84	3.87	0.2%
Natural Gas	6.78	6.92	6.93	6.92	6.88	6.82	6.90	7.07	7.04	7.04	7.02	7.01	0.6%
Electricity	19.10	19.40	19.64	19.72	19.75	19.63	19.70	19.76	19.67	19.53	19.80	19.81	-0.3%
<b>Industrial 3/</b>	6.55	6.71	6.83	6.91	6.94	6.93	7.01	7.09	7.08	7.07	7.14	7.18	0.8%
Primary Energy	4.82	4.92	4.98	5.04	5.05	5.05	5.12	5.20	5.21	5.21	5.23	5.26	1.0%
Petroleum Products 2/	6.19	6.27	6.38	6.51	6.57	6.63	6.68	6.67	6.68	6.67	6.70	6.79	0.6%
Distillate Fuel	5.82	5.88	5.98	6.09	6.20	6.25	6.31	6.32	6.31	6.30	6.32	6.40	0.0%
Liquefied Petroleum Gas	13.19	13.36	13.46	13.52	13.58	13.65	13.71	13.76	13.82	13.88	13.93	14.00	0.8%
Residual Fuel	3.64	3.67	3.70	3.73	3.76	3.79	3.82	3.85	3.87	3.91	3.93	3.97	0.2%
Natural Gas 4/	4.92	5.06	5.09	5.10	5.05	5.00	5.08	5.24	5.23	5.22	5.21	5.21	1.2%
Metallurgical Coal	1.96	1.95	1.94	1.93	1.93	1.92	1.88	1.86	1.84	1.82	1.81	1.80	-0.3%
Steam Coal	1.56	1.55	1.55	1.55	1.54	1.53	1.54	1.55	1.56	1.56	1.56	1.55	0.1%
Electricity	13.21	13.52	13.78	13.90	13.93	13.84	13.91	13.94	13.85	13.75	13.96	13.97	0.2%
<b>Transportation</b>	10.74	10.76	10.79	10.77	10.75	10.74	10.73	10.75	10.77	10.83	10.84	10.88	0.2%
Primary Energy	10.72	10.74	10.77	10.75	10.72	10.71	10.70	10.72	10.75	10.80	10.82	10.86	0.2%
Petroleum Products 2/	10.72	10.74	10.77	10.75	10.73	10.72	10.70	10.73	10.75	10.81	10.82	10.86	0.2%
Distillate Fuel 5/	10.09	10.09	10.07	10.04	9.93	9.86	9.80	9.79	9.80	9.84	9.82	9.83	0.2%
Jet Fuel 6/	5.52	5.53	5.62	5.70	5.79	5.81	5.82	5.81	5.80	5.81	5.83	5.91	0.1%
Motor Gasoline 7/	11.62	11.64	11.69	11.66	11.66	11.66	11.67	11.71	11.74	11.81	11.83	11.87	0.3%
Residual Fuel	3.96	3.99	4.02	4.05	4.08	4.11	4.14	4.17	4.20	4.23	4.26	4.30	0.5%
Liquefied Petroleum Gas8/	16.72	16.85	16.92	16.94	16.97	17.01	17.03	17.05	17.07	17.10	17.12	17.15	0.1%
Natural Gas 9/	9.39	9.51	9.53	9.51	9.44	9.35	9.40	9.53	9.49	9.46	9.42	9.38	0.7%
Ethanol (E85) 10/	17.73	17.84	17.92	17.96	18.00	18.03	18.11	18.23	18.29	18.36	18.42	18.48	0.9%
Electricity	17.80	17.97	18.09	18.08	18.01	17.85	17.87	17.89	17.77	17.64	17.81	17.79	0.1%
<b>Average End-Use Energy</b>	9.81	9.93	10.01	10.04	10.04	10.02	10.06	10.14	10.14	10.15	10.22	10.25	0.3%
Primary Energy	8.03	8.11	8.16	8.17	8.16	8.14	8.18	8.26	8.27	8.29	8.31	8.34	0.5%
Electricity	17.81	18.06	18.26	18.32	18.32	18.20	18.27	18.31	18.22	18.10	18.34	18.35	-0.2%
<b>Electric Generators 11/</b>													
Fossil Fuel Average	1.60	1.65	1.68	1.71	1.74	1.75	1.79	1.85	1.85	1.88	1.91	1.94	1.5%
Petroleum Products	4.83	4.86	4.95	5.04	5.16	5.21	5.27	5.33	5.31	5.32	5.35	5.42	0.1%
Distillate Fuel	5.00	5.05	5.15	5.27	5.37	5.43	5.48	5.49	5.48	5.48	5.49	5.57	0.0%
Residual Fuel	4.18	4.21	4.24	4.26	4.29	4.32	4.35	4.38	4.41	4.44	4.47	4.51	0.3%
Natural Gas	4.14	4.29	4.34	4.35	4.32	4.27	4.36	4.53	4.51	4.52	4.51	4.52	1.0%
Steam Coal	1.15	1.15	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.13	-0.2%

Table 13. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.81	9.85	9.90	9.91	9.91	9.92	9.92	9.94	9.96	10.00	10.02	10.07	0.3%
Distillate Fuel	9.16	9.17	9.18	9.18	9.12	9.09	9.05	9.04	9.05	9.08	9.06	9.10	0.2%
Jet Fuel	5.52	5.53	5.62	5.70	5.79	5.81	5.82	5.81	5.80	5.81	5.83	5.91	0.1%
Liquefied Petroleum Gas	13.20	13.37	13.48	13.53	13.60	13.67	13.72	13.78	13.84	13.89	13.95	14.01	0.7%
Motor Gasoline 7/	11.62	11.64	11.69	11.66	11.66	11.66	11.67	11.71	11.74	11.81	11.83	11.87	0.3%
Residual Fuel	3.69	3.72	3.75	3.78	3.81	3.84	3.87	3.90	3.93	3.95	3.99	4.02	0.2%
Natural Gas	5.84	5.96	5.96	5.93	5.86	5.78	5.84	6.00	5.97	5.95	5.92	5.90	0.4%
Coal	1.17	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.16	1.16	1.16	1.16	-0.2%
Ethanol (E85) 10/	17.73	17.84	17.92	17.96	18.00	18.03	18.11	18.23	18.29	18.36	18.42	18.48	0.9%
Electricity	17.81	18.06	18.26	18.32	18.32	18.20	18.27	18.31	18.22	18.10	18.34	18.35	-0.2%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	29.73	30.27	30.69	30.85	31.05	31.16	31.70	32.15	32.31	32.51	33.04	33.24	1.1%
Commercial	20.06	20.54	20.90	21.15	21.36	21.47	21.84	22.28	22.49	22.73	23.35	23.80	1.1%
Industrial	25.17	26.00	26.73	27.39	27.86	28.06	28.68	29.24	29.56	29.89	30.53	31.11	1.8%
Transportation	50.91	51.52	52.20	52.66	53.08	53.53	54.00	54.66	55.40	56.31	57.09	58.07	1.6%
Total Non-Renewable Expenditures	125.88	128.34	130.51	132.05	133.35	134.21	136.21	138.33	139.76	141.44	144.02	146.24	1.4%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.0%
Total Expenditures	125.89	128.35	130.52	132.05	133.36	134.22	136.22	138.34	139.77	141.45	144.03	146.25	1.4%

Table 13. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
East North Central

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 14. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	13.63	12.71	13.60	13.38	12.91	12.66	12.52	12.54	12.50	12.52	12.52	12.63	12.84
Primary Energy 1/	9.47	8.14	9.15	8.90	8.25	8.11	8.05	8.03	7.91	7.84	7.97	8.08	8.24
Petroleum Products 2/	10.73	9.17	11.37	10.96	9.39	9.42	9.48	9.57	9.67	9.66	9.80	9.88	9.97
Distillate Fuel	7.92	7.29	8.06	7.36	7.04	6.95	6.91	6.92	6.92	6.90	6.91	6.96	6.98
Liquefied Petroleum Gas	11.73	9.77	12.45	12.20	10.18	10.25	10.32	10.44	10.56	10.55	10.73	10.80	10.90
Natural Gas	9.13	7.84	8.54	8.33	7.95	7.76	7.66	7.61	7.43	7.35	7.48	7.59	7.78
Electricity	21.84	21.59	22.01	21.95	21.78	21.31	20.93	20.92	20.98	21.06	20.72	20.73	20.89
Commercial	12.06	10.61	11.81	11.61	11.34	11.13	11.00	11.06	11.06	11.10	11.13	11.28	11.51
Primary Energy 1/	7.75	5.44	7.49	7.01	6.60	6.46	6.41	6.41	6.29	6.25	6.36	6.46	6.62
Petroleum Products 2/	8.62	7.81	8.81	8.26	7.52	7.43	7.43	7.46	7.46	7.44	7.48	7.50	7.52
Distillate Fuel	6.33	5.76	6.38	5.82	5.33	5.24	5.20	5.21	5.20	5.19	5.20	5.25	5.27
Residual Fuel	2.68	3.57	4.21	3.51	3.27	3.30	3.33	3.36	3.38	3.41	3.44	3.47	3.50
Natural Gas	7.95	5.25	7.59	7.08	6.71	6.56	6.49	6.48	6.33	6.27	6.41	6.53	6.71
Electricity	17.94	17.60	17.64	17.50	17.30	16.94	16.65	16.71	16.80	16.90	16.73	16.87	17.09
Industrial 3/	6.52	6.06	7.02	6.46	6.17	6.11	6.12	6.19	6.21	6.23	6.27	6.34	6.45
Primary Energy	5.27	4.75	6.07	5.39	5.07	5.03	5.06	5.11	5.10	5.11	5.19	5.26	5.36
Petroleum Products 2/	6.87	6.57	7.71	7.21	6.73	6.68	6.71	6.75	6.79	6.79	6.86	6.90	6.95
Distillate Fuel	6.69	6.30	6.98	6.36	5.88	5.80	5.75	5.77	5.76	5.75	5.76	5.80	5.83
Liquefied Petroleum Gas	10.43	9.04	11.53	11.28	9.33	9.39	9.47	9.59	9.70	9.69	9.87	9.94	10.04
Residual Fuel	2.61	3.57	4.21	3.51	3.30	3.33	3.36	3.38	3.41	3.44	3.47	3.49	3.52
Natural Gas 4/	5.24	4.05	6.24	4.99	4.67	4.59	4.61	4.69	4.61	4.62	4.76	4.88	5.08
Metallurgical 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
Steam Coal	1.10	1.12	1.19	1.17	1.16	1.16	1.15	1.16	1.15	1.15	1.15	1.14	1.14
Electricity	12.83	12.37	11.61	11.50	11.44	11.25	11.12	11.18	11.30	11.37	11.14	11.21	11.34
Transportation	10.93	10.02	11.24	10.28	10.37	10.50	10.60	10.61	10.61	10.63	10.66	10.66	10.63
Primary Energy	10.91	10.00	11.23	10.26	10.35	10.49	10.58	10.60	10.59	10.61	10.65	10.64	10.62
Petroleum Products 2/	10.91	10.01	11.23	10.26	10.36	10.49	10.59	10.60	10.59	10.62	10.65	10.65	10.62
Distillate Fuel 5/	10.16	9.30	10.28	9.39	9.50	9.81	10.02	10.06	9.99	10.00	10.08	10.07	9.97
Jet Fuel 6/	6.46	6.13	6.90	6.49	6.28	5.95	5.84	5.87	5.87	5.85	5.91	5.90	5.90
Motor Gasoline 7/	11.97	10.91	12.27	11.18	11.32	11.45	11.53	11.54	11.56	11.60	11.61	11.61	11.61
Residual Fuel	2.90	3.02	3.57	2.97	2.60	2.63	2.66	2.69	2.72	2.74	2.77	2.80	2.83
Liquefied Petroleum Gas8/	15.32	13.74	16.08	16.08	13.28	13.31	13.36	13.44	13.53	13.48	13.62	13.66	13.72
Natural Gas 9/	8.39	7.04	9.34	8.11	7.83	7.86	7.99	8.15	8.14	8.22	8.40	8.55	8.77
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.67	16.79	17.03	17.12	17.21	17.26	17.51	17.73	17.84
Electricity	16.90	16.78	17.26	16.99	16.81	16.46	16.21	16.28	16.41	16.54	16.30	16.37	16.53
Average End-Use Energy	10.22	9.41	10.51	9.90	9.71	9.68	9.68	9.72	9.72	9.74	9.77	9.83	9.91
Primary Energy	8.73	7.77	9.09	8.38	8.19	8.22	8.27	8.31	8.29	8.30	8.37	8.42	8.48
Electricity	17.81	17.49	17.48	17.35	17.18	16.82	16.53	16.57	16.65	16.73	16.48	16.54	16.71
Electric Generators 11/													
Fossil Fuel Average	1.02	1.00	1.12	1.07	1.05	1.04	1.03	1.05	1.01	1.01	1.03	1.06	1.07
Petroleum Products	5.56	5.18	6.23	5.69	5.12	5.04	4.93	4.88	4.84	4.79	4.82	4.81	4.88
Distillate Fuel	6.25	5.63	6.23	5.69	5.14	5.06	5.01	5.02	5.02	5.00	5.02	5.06	5.09
Residual Fuel	4.17	3.38	3.99	3.32	2.94	2.96	2.99	3.02	3.05	3.07	3.10	3.13	3.16
Natural Gas	4.36	3.41	5.74	4.42	4.06	3.95	3.96	4.05	3.92	3.93	4.08	4.24	4.44
Steam Coal	0.88	0.91	0.89	0.88	0.89	0.89	0.88	0.88	0.88	0.88	0.87	0.88	0.88

Table 14. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.97	9.19	10.45	9.64	9.52	9.61	9.69	9.72	9.75	9.76	9.81	9.82	9.81
Distillate Fuel	9.12	8.38	9.25	8.48	8.43	8.63	8.79	8.83	8.81	8.82	8.89	8.89	8.82
Jet Fuel	6.46	6.13	6.90	6.49	6.28	5.95	5.84	5.87	5.87	5.85	5.91	5.90	5.90
Liquefied Petroleum Gas	11.01	9.39	11.96	11.72	9.75	9.81	9.89	10.01	10.12	10.12	10.29	10.36	10.46
Motor Gasoline 7/	11.96	10.91	12.26	11.18	11.32	11.45	11.53	11.54	11.56	11.60	11.61	11.61	11.62
Residual Fuel	3.22	3.52	4.20	3.50	3.29	3.32	3.33	3.35	3.38	3.40	3.43	3.44	3.47
Natural Gas	7.26	5.73	7.36	6.61	6.24	6.10	6.05	6.05	5.95	5.91	6.03	6.12	6.31
Coal	0.90	0.93	0.92	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.67	16.79	17.03	17.12	17.21	17.26	17.51	17.73	17.84
Electricity	17.81	17.49	17.48	17.35	17.18	16.82	16.53	16.57	16.65	16.73	16.48	16.54	16.71
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	12.40	12.11	12.92	12.96	12.58	12.48	12.45	12.59	12.61	12.72	12.80	13.00	13.22
Commercial	7.67	6.79	7.64	7.55	7.52	7.53	7.57	7.70	7.79	7.90	8.00	8.18	8.43
Industrial	9.31	8.68	9.85	9.15	8.95	8.95	9.05	9.21	9.29	9.46	9.63	9.85	10.16
Transportation	21.81	20.14	22.84	21.56	22.38	23.16	23.80	24.25	24.65	25.13	25.63	26.04	26.42
Total Non-Renewable Expenditures	51.18	47.72	53.25	51.21	51.44	52.13	52.86	53.75	54.34	55.21	56.05	57.08	58.22
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	51.18	47.73	53.25	51.21	51.44	52.13	52.86	53.75	54.34	55.21	56.05	57.08	58.22

Table 14. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Residential</b>	13.00	13.11	13.17	13.22	13.24	13.21	13.31	13.53	13.61	13.65	13.71	13.72	0.3%
Primary Energy 1/	8.36	8.45	8.49	8.51	8.47	8.40	8.45	8.62	8.64	8.64	8.65	8.63	0.3%
Petroleum Products 2/	10.02	10.17	10.29	10.37	10.46	10.54	10.61	10.67	10.73	10.79	10.85	10.94	0.8%
Distillate Fuel	7.02	7.08	7.18	7.29	7.40	7.45	7.51	7.52	7.51	7.50	7.52	7.60	0.2%
Liquefied Petroleum Gas	10.94	11.10	11.21	11.27	11.34	11.41	11.47	11.52	11.58	11.64	11.70	11.76	0.8%
Natural Gas	7.91	7.99	8.00	8.01	7.94	7.84	7.88	8.08	8.09	8.08	8.08	8.03	0.1%
Electricity	21.02	21.04	21.04	21.07	21.10	21.06	21.19	21.41	21.49	21.50	21.55	21.54	0.0%
<b>Commercial</b>	11.69	11.81	11.89	11.94	11.95	11.91	12.01	12.21	12.28	12.30	12.37	12.37	0.7%
Primary Energy 1/	6.73	6.80	6.84	6.86	6.82	6.74	6.79	6.94	6.96	6.96	6.96	6.93	1.1%
Petroleum Products 2/	7.54	7.59	7.66	7.72	7.78	7.82	7.85	7.86	7.86	7.86	7.88	7.93	0.1%
Distillate Fuel	5.31	5.37	5.47	5.58	5.69	5.74	5.80	5.80	5.80	5.79	5.81	5.89	0.1%
Residual Fuel	3.52	3.55	3.58	3.61	3.64	3.67	3.70	3.73	3.76	3.79	3.82	3.85	0.3%
Natural Gas	6.85	6.93	6.96	6.97	6.90	6.80	6.85	7.04	7.06	7.05	7.05	7.01	1.3%
Electricity	17.26	17.36	17.43	17.46	17.48	17.43	17.54	17.73	17.78	17.76	17.85	17.84	0.1%
<b>Industrial 3/</b>	6.54	6.62	6.69	6.76	6.78	6.78	6.84	6.95	6.99	7.01	7.04	7.06	0.7%
Primary Energy	5.43	5.51	5.58	5.64	5.66	5.65	5.70	5.80	5.82	5.84	5.86	5.88	0.9%
Petroleum Products 2/	6.97	7.07	7.17	7.27	7.34	7.41	7.45	7.49	7.51	7.52	7.56	7.63	0.7%
Distillate Fuel	5.87	5.92	6.02	6.14	6.24	6.30	6.35	6.36	6.35	6.35	6.36	6.44	0.1%
Liquefied Petroleum Gas	10.08	10.25	10.36	10.41	10.48	10.55	10.61	10.67	10.72	10.79	10.84	10.91	0.8%
Residual Fuel	3.55	3.58	3.61	3.64	3.67	3.70	3.73	3.76	3.79	3.82	3.85	3.88	0.4%
Natural Gas 4/	5.23	5.31	5.36	5.38	5.32	5.21	5.27	5.46	5.49	5.48	5.47	5.43	1.3%
Metallurgical 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	N/A
Steam Coal	1.14	1.13	1.13	1.12	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.10	-0.1%
Electricity	11.46	11.51	11.55	11.58	11.61	11.61	11.71	11.85	11.92	11.94	11.98	11.96	-0.1%
<b>Transportation</b>	10.64	10.65	10.66	10.66	10.67	10.67	10.65	10.66	10.67	10.69	10.72	10.74	0.3%
Primary Energy	10.63	10.63	10.64	10.65	10.66	10.65	10.64	10.65	10.66	10.68	10.70	10.73	0.3%
Petroleum Products 2/	10.63	10.63	10.65	10.65	10.66	10.66	10.64	10.65	10.66	10.68	10.71	10.73	0.3%
Distillate Fuel 5/	10.02	10.02	10.02	10.01	10.00	9.96	9.89	9.91	9.92	9.96	9.93	9.95	0.3%
Jet Fuel 6/	5.89	5.88	5.97	6.04	6.13	6.13	6.14	6.12	6.10	6.12	6.12	6.21	0.1%
Motor Gasoline 7/	11.62	11.62	11.63	11.64	11.65	11.66	11.66	11.67	11.68	11.70	11.75	11.77	0.3%
Residual Fuel	2.86	2.89	2.92	2.95	2.98	3.01	3.04	3.07	3.10	3.13	3.16	3.19	0.2%
Liquefied Petroleum Gas8/	13.73	13.86	13.93	13.95	13.99	14.02	14.04	14.07	14.09	14.12	14.15	14.18	0.1%
Natural Gas 9/	8.94	9.02	9.07	9.07	9.00	8.87	8.90	9.06	9.06	9.03	9.00	8.94	1.0%
Ethanol (E85) 10/	17.95	18.03	18.09	18.15	18.19	18.21	18.28	18.39	18.46	18.51	18.57	18.61	0.9%
Electricity	16.66	16.68	16.69	16.70	16.69	16.63	16.72	16.86	16.91	16.89	16.91	16.85	0.0%
<b>Average End-Use Energy</b>	9.99	10.05	10.09	10.12	10.14	10.12	10.16	10.25	10.29	10.30	10.34	10.35	0.4%
Primary Energy	8.54	8.59	8.63	8.65	8.66	8.64	8.66	8.72	8.74	8.76	8.79	8.81	0.5%
Electricity	16.85	16.90	16.93	16.94	16.96	16.93	17.04	17.22	17.28	17.27	17.33	17.30	0.0%
<b>Electric Generators 11/</b>													
Fossil Fuel Average	1.09	1.11	1.12	1.12	1.12	1.10	1.10	1.10	1.09	1.08	1.09	1.10	0.4%
Petroleum Products	4.89	4.97	5.06	5.13	5.21	5.28	5.31	5.37	5.36	5.35	5.40	5.46	0.2%
Distillate Fuel	5.12	5.18	5.28	5.39	5.50	5.56	5.61	5.62	5.61	5.60	5.62	5.70	0.1%
Residual Fuel	3.19	3.21	3.24	3.27	3.30	3.33	3.36	3.39	3.42	3.45	3.48	3.51	0.2%
Natural Gas	4.61	4.71	4.77	4.80	4.74	4.63	4.71	4.88	4.90	4.88	4.88	4.86	1.5%
Steam Coal	0.88	0.88	0.88	0.87	0.87	0.87	0.87	0.86	0.87	0.87	0.88	0.88	-0.1%



Table 14. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.83	9.86	9.89	9.92	9.95	9.97	9.97	9.99	10.00	10.02	10.05	10.09	0.4%
Distillate Fuel	8.86	8.88	8.91	8.94	8.98	8.98	8.95	8.96	8.97	9.00	8.99	9.03	0.3%
Jet Fuel	5.89	5.88	5.97	6.04	6.13	6.13	6.14	6.12	6.10	6.12	6.12	6.21	0.1%
Liquefied Petroleum Gas	10.50	10.66	10.77	10.82	10.89	10.96	11.01	11.07	11.12	11.18	11.24	11.30	0.8%
Motor Gasoline 7/	11.62	11.62	11.63	11.64	11.65	11.66	11.67	11.67	11.68	11.70	11.75	11.77	0.3%
Residual Fuel	3.49	3.52	3.55	3.57	3.60	3.64	3.66	3.70	3.72	3.76	3.79	3.82	0.3%
Natural Gas	6.44	6.51	6.53	6.53	6.46	6.36	6.40	6.59	6.62	6.61	6.60	6.54	0.6%
Coal	0.91	0.91	0.90	0.89	0.90	0.89	0.89	0.88	0.89	0.89	0.90	0.90	-0.1%
Ethanol (E85) 10/	17.95	18.03	18.09	18.15	18.19	18.21	18.28	18.39	18.46	18.51	18.57	18.61	0.9%
Electricity	16.85	16.90	16.93	16.94	16.96	16.93	17.04	17.22	17.28	17.27	17.33	17.30	0.0%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	13.43	13.58	13.74	13.82	13.92	13.98	14.21	14.44	14.58	14.69	14.87	14.92	0.9%
Commercial	8.65	8.83	9.00	9.16	9.30	9.39	9.58	9.83	9.95	10.04	10.16	10.22	1.8%
Industrial	10.41	10.64	10.87	11.11	11.31	11.42	11.67	11.96	12.19	12.39	12.60	12.81	1.7%
Transportation	26.81	27.14	27.50	27.86	28.22	28.52	28.81	29.18	29.58	30.04	30.55	31.11	1.9%
Total Non-Renewable Expenditures	59.28	60.19	61.11	61.96	62.75	63.31	64.27	65.41	66.31	67.16	68.18	69.07	1.6%
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	8.3%
Total Expenditures	59.29	60.20	61.11	61.96	62.75	63.32	64.27	65.42	66.31	67.16	68.18	69.07	1.6%

Table 14. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
West North Central

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 15. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	19.24	18.28	19.46	19.08	18.73	18.44	18.15	18.07	17.94	17.80	17.79	17.96	18.10
Primary Energy 1/	11.60	9.88	11.21	10.82	10.12	9.93	9.87	9.86	9.67	9.54	9.66	9.83	9.94
Petroleum Products 2/	12.81	11.48	13.82	13.00	11.93	11.93	12.02	12.12	12.22	12.27	12.42	12.52	12.64
Distillate Fuel	9.10	8.29	9.16	8.36	8.06	7.91	7.90	7.89	7.89	7.89	7.94	7.97	8.00
Liquefied Petroleum Gas	17.73	14.89	18.99	18.59	16.55	16.61	16.69	16.81	16.92	16.91	17.09	17.16	17.26
Natural Gas	11.17	9.31	10.33	10.06	9.50	9.25	9.15	9.12	8.84	8.67	8.80	9.00	9.12
Electricity	23.88	23.15	24.26	24.00	23.86	23.53	23.08	22.93	22.82	22.66	22.54	22.67	22.78
Commercial	15.94	14.96	15.89	15.55	15.23	14.97	14.77	14.81	14.87	14.87	14.97	15.25	15.43
Primary Energy 1/	8.75	7.12	8.41	7.92	7.41	7.23	7.21	7.23	7.07	6.98	7.10	7.26	7.37
Petroleum Products 2/	7.44	6.99	7.77	7.28	6.72	6.55	6.55	6.55	6.55	6.55	6.59	6.60	6.62
Distillate Fuel	6.25	5.81	6.42	5.86	5.37	5.22	5.21	5.20	5.20	5.20	5.25	5.28	5.30
Residual Fuel	3.27	3.88	4.58	3.81	3.67	3.70	3.72	3.75	3.77	3.79	3.82	3.84	3.87
Natural Gas	9.58	7.44	9.00	8.49	7.97	7.77	7.73	7.75	7.51	7.37	7.52	7.73	7.87
Electricity	19.62	18.84	19.73	19.34	19.10	18.77	18.46	18.46	18.60	18.61	18.66	18.95	19.13
Industrial 3/	6.80	6.31	7.15	6.64	6.48	6.41	6.41	6.48	6.47	6.47	6.53	6.65	6.75
Primary Energy	4.97	4.41	5.39	4.75	4.56	4.49	4.53	4.59	4.54	4.54	4.62	4.72	4.80
Petroleum Products 2/	5.77	5.52	6.26	5.76	5.69	5.63	5.66	5.67	5.70	5.72	5.77	5.79	5.81
Distillate Fuel	6.48	6.11	6.75	6.16	5.64	5.49	5.48	5.47	5.47	5.47	5.52	5.55	5.57
Liquefied Petroleum Gas	12.45	11.28	14.38	14.08	12.67	12.73	12.81	12.93	13.04	13.03	13.21	13.28	13.38
Residual Fuel	3.52	3.94	4.65	3.87	3.75	3.78	3.81	3.83	3.86	3.88	3.91	3.93	3.96
Natural Gas 4/	5.86	4.38	6.19	4.97	4.53	4.41	4.47	4.60	4.46	4.41	4.57	4.79	4.96
Metallurgical Coal	1.51	1.66	1.81	1.81	1.79	1.78	1.76	1.76	1.76	1.76	1.75	1.73	1.72
Steam Coal	1.83	1.82	1.97	1.93	1.92	1.92	1.91	1.92	1.92	1.91	1.91	1.89	1.88
Electricity	12.99	12.44	12.91	12.70	12.57	12.40	12.23	12.25	12.28	12.24	12.17	12.34	12.45
Transportation	10.29	9.82	11.00	10.05	10.13	10.23	10.32	10.35	10.34	10.34	10.38	10.37	10.35
Primary Energy	10.26	9.79	10.97	10.02	10.10	10.21	10.30	10.33	10.32	10.31	10.36	10.34	10.33
Petroleum Products 2/	10.26	9.79	10.97	10.03	10.10	10.21	10.30	10.33	10.32	10.32	10.36	10.35	10.33
Distillate Fuel 5/	9.77	8.99	9.93	9.07	9.37	9.68	9.89	9.93	9.85	9.82	9.90	9.89	9.78
Jet Fuel 6/	6.48	6.05	6.80	6.40	6.16	5.83	5.75	5.76	5.77	5.82	5.93	5.94	5.96
Motor Gasoline 7/	11.13	10.66	11.97	10.91	10.97	11.07	11.14	11.17	11.17	11.17	11.19	11.17	11.18
Residual Fuel	3.24	3.54	4.18	3.48	3.33	3.36	3.38	3.41	3.43	3.45	3.48	3.50	3.53
Liquefied Petroleum Gas8/	17.43	15.12	16.42	16.42	16.40	16.44	16.48	16.57	16.65	16.61	16.75	16.78	16.85
Natural Gas 9/	7.95	6.88	8.96	7.80	7.41	7.43	7.60	7.82	7.77	7.78	7.99	8.26	8.46
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	15.40	15.59	15.71	15.72	15.72	15.72	15.73	15.73	15.74
Electricity	19.69	18.94	19.64	19.21	18.83	18.47	18.15	18.10	18.09	18.01	17.96	18.12	18.22
Average End-Use Energy	11.73	11.21	12.29	11.64	11.53	11.49	11.47	11.51	11.51	11.49	11.55	11.64	11.70
Primary Energy	9.04	8.41	9.57	8.81	8.74	8.79	8.86	8.91	8.89	8.88	8.96	9.00	9.03
Electricity	19.97	19.37	20.30	19.99	19.80	19.50	19.15	19.10	19.12	19.05	19.00	19.21	19.34
Electric Generators 11/													
Fossil Fuel Average	2.23	2.07	2.11	2.02	1.95	1.93	1.91	1.94	1.89	1.88	1.92	1.98	1.98
Petroleum Products	5.62	4.24	4.99	4.60	4.42	4.34	4.37	4.41	4.41	4.35	4.47	4.59	4.65
Distillate Fuel	6.13	5.43	6.01	5.48	4.97	4.82	4.81	4.80	4.80	4.80	4.85	4.88	4.90
Residual Fuel	5.41	3.89	4.57	3.81	3.79	3.81	3.84	3.87	3.89	3.91	3.94	3.96	3.99
Natural Gas	4.63	4.24	5.99	4.90	4.46	4.35	4.39	4.51	4.44	4.36	4.52	4.73	4.88
Steam Coal	1.50	1.47	1.46	1.46	1.45	1.44	1.43	1.45	1.45	1.44	1.43	1.43	1.42

Table 15. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.33	8.89	10.03	9.33	9.34	9.43	9.51	9.53	9.57	9.61	9.65	9.60	9.59
Distillate Fuel	8.71	8.11	8.91	8.17	8.21	8.38	8.53	8.52	8.52	8.63	8.64	8.51	8.43
Jet Fuel	6.48	6.05	6.80	6.40	6.16	5.83	5.75	5.76	5.77	5.82	5.93	5.94	5.96
Liquefied Petroleum Gas	15.75	13.61	17.27	16.91	15.18	15.26	15.34	15.46	15.59	15.58	15.76	15.83	15.93
Motor Gasoline 7/	11.12	10.65	11.97	10.91	10.97	11.07	11.14	11.17	11.17	11.17	11.19	11.17	11.18
Residual Fuel	4.77	3.83	4.50	3.72	3.62	3.65	3.68	3.71	3.72	3.74	3.76	3.79	3.81
Natural Gas	7.43	5.91	7.75	6.78	6.28	6.11	6.13	6.21	6.11	5.96	6.11	6.32	6.51
Coal	1.52	1.49	1.50	1.49	1.48	1.47	1.46	1.47	1.48	1.46	1.46	1.45	1.45
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	15.40	15.59	15.71	15.72	15.72	15.72	15.73	15.73	15.74
Electricity	19.97	19.37	20.30	19.99	19.80	19.50	19.15	19.10	19.12	19.05	19.00	19.21	19.34
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	30.90	31.70	34.05	34.38	34.31	34.47	34.59	35.21	35.56	35.98	36.60	37.63	38.36
Commercial	21.92	20.86	22.53	22.58	22.79	23.03	23.38	24.16	25.08	25.96	26.95	28.13	29.08
Industrial	15.07	13.83	15.62	14.60	14.52	14.49	14.66	14.92	14.93	15.09	15.44	15.93	16.41
Transportation	47.94	46.12	52.52	49.76	51.87	53.92	55.75	57.32	58.66	60.14	61.86	63.27	64.75
Total Non-Renewable Expenditures	115.84	112.50	124.73	121.33	123.48	125.91	128.38	131.60	134.23	137.17	140.84	144.97	148.59
Transportation Renewable Expenditures	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
Total Expenditures	115.84	112.50	124.74	121.34	123.49	125.91	128.38	131.61	134.24	137.18	140.85	144.98	148.60

Table 15. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	18.17	18.29	18.30	18.25	18.28	18.23	18.28	18.38	18.35	18.31	18.35	18.38	0.0%
Primary Energy 1/	9.98	10.14	10.12	10.13	10.13	10.13	10.22	10.32	10.27	10.28	10.26	10.28	0.2%
Petroleum Products 2/	12.71	12.90	13.05	13.21	13.38	13.52	13.65	13.78	13.91	14.03	14.16	14.31	1.0%
Distillate Fuel	7.99	8.08	8.14	8.25	8.37	8.43	8.48	8.52	8.55	8.55	8.58	8.63	0.2%
Liquefied Petroleum Gas	17.30	17.47	17.58	17.63	17.70	17.77	17.83	17.89	17.94	18.01	18.06	18.13	0.9%
Natural Gas	9.16	9.32	9.27	9.24	9.22	9.19	9.28	9.40	9.32	9.31	9.28	9.28	0.0%
Electricity	22.84	22.89	22.90	22.79	22.79	22.70	22.70	22.76	22.71	22.62	22.66	22.67	-0.1%
Commercial	15.58	15.76	15.87	15.88	15.96	15.96	16.04	16.14	16.10	16.05	16.15	16.19	0.3%
Primary Energy 1/	7.41	7.55	7.55	7.57	7.59	7.59	7.69	7.79	7.74	7.75	7.74	7.76	0.4%
Petroleum Products 2/	6.61	6.69	6.75	6.83	6.93	6.98	7.02	7.05	7.06	7.07	7.09	7.13	0.1%
Distillate Fuel	5.30	5.38	5.45	5.56	5.68	5.73	5.79	5.83	5.85	5.86	5.88	5.93	0.1%
Residual Fuel	3.89	3.92	3.95	3.98	4.01	4.04	4.07	4.09	4.12	4.15	4.18	4.21	0.4%
Natural Gas	7.93	8.10	8.08	8.06	8.04	8.02	8.13	8.24	8.17	8.18	8.15	8.16	0.4%
Electricity	19.27	19.43	19.55	19.53	19.61	19.58	19.62	19.69	19.63	19.53	19.64	19.67	0.2%
Industrial 3/	6.82	6.94	7.02	7.07	7.12	7.14	7.20	7.26	7.25	7.25	7.29	7.33	0.7%
Primary Energy	4.84	4.95	4.99	5.04	5.09	5.11	5.18	5.25	5.25	5.25	5.27	5.30	0.8%
Petroleum Products 2/	5.82	5.90	5.98	6.06	6.15	6.20	6.25	6.28	6.31	6.30	6.34	6.37	0.6%
Distillate Fuel	5.57	5.65	5.72	5.83	5.95	6.00	6.06	6.10	6.12	6.13	6.16	6.20	0.1%
Liquefied Petroleum Gas	13.42	13.59	13.70	13.75	13.82	13.89	13.95	14.01	14.06	14.13	14.18	14.25	1.0%
Residual Fuel	3.98	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	0.4%
Natural Gas 4/	5.04	5.22	5.23	5.23	5.22	5.22	5.33	5.45	5.40	5.40	5.39	5.40	0.9%
Metallurgical Coal	1.72	1.72	1.71	1.71	1.71	1.69	1.67	1.65	1.63	1.62	1.61	1.60	-0.1%
Steam Coal	1.88	1.87	1.86	1.84	1.84	1.82	1.81	1.81	1.81	1.80	1.80	1.79	-0.1%
Electricity	12.55	12.68	12.79	12.81	12.84	12.80	12.83	12.84	12.78	12.70	12.79	12.81	0.1%
Transportation	10.36	10.38	10.40	10.41	10.42	10.42	10.41	10.42	10.43	10.45	10.46	10.48	0.3%
Primary Energy	10.34	10.36	10.37	10.38	10.39	10.39	10.38	10.40	10.41	10.43	10.43	10.46	0.3%
Petroleum Products 2/	10.34	10.36	10.38	10.39	10.40	10.40	10.39	10.40	10.41	10.43	10.44	10.46	0.3%
Distillate Fuel 5/	9.83	9.84	9.84	9.83	9.82	9.78	9.71	9.72	9.73	9.76	9.74	9.75	0.4%
Jet Fuel 6/	5.92	5.97	6.02	6.11	6.20	6.22	6.23	6.27	6.30	6.32	6.34	6.42	0.3%
Motor Gasoline 7/	11.18	11.19	11.21	11.21	11.22	11.23	11.23	11.24	11.25	11.26	11.27	11.28	0.2%
Residual Fuel	3.55	3.58	3.61	3.64	3.67	3.70	3.73	3.75	3.78	3.81	3.83	3.87	0.4%
Liquefied Petroleum Gas8/	16.85	16.98	17.06	17.08	17.11	17.15	17.17	17.19	17.22	17.25	17.27	17.31	0.6%
Natural Gas 9/	8.56	8.75	8.77	8.77	8.76	8.73	8.84	8.94	8.87	8.86	8.84	8.84	1.1%
Ethanol (E85) 10/	15.74	15.74	15.74	15.75	18.52	18.55	18.63	18.74	18.78	18.83	18.89	18.94	1.0%
Electricity	18.30	18.36	18.38	18.29	18.25	18.13	18.10	18.10	18.01	17.89	17.90	17.86	-0.3%
Average End-Use Energy	11.75	11.83	11.88	11.89	11.93	11.93	11.97	12.02	12.01	12.00	12.04	12.06	0.3%
Primary Energy	9.07	9.13	9.15	9.17	9.19	9.20	9.23	9.27	9.28	9.30	9.31	9.34	0.5%
Electricity	19.44	19.55	19.62	19.57	19.60	19.54	19.57	19.62	19.57	19.47	19.55	19.56	0.0%
Electric Generators 11/													
Fossil Fuel Average	1.97	1.99	2.00	2.01	2.02	2.02	2.01	1.98	1.96	1.92	1.92	1.92	-0.3%
Petroleum Products	4.67	4.75	4.78	4.84	4.92	4.98	4.99	5.07	5.09	5.09	5.14	5.20	0.9%
Distillate Fuel	4.90	4.98	5.05	5.16	5.28	5.33	5.39	5.43	5.45	5.46	5.48	5.53	0.1%
Residual Fuel	4.01	4.04	4.07	4.10	4.12	4.16	4.18	4.20	4.23	4.26	4.29	4.33	0.5%
Natural Gas	4.94	5.11	5.14	5.15	5.16	5.16	5.27	5.36	5.29	5.29	5.26	5.27	0.9%
Steam Coal	1.41	1.41	1.40	1.39	1.39	1.38	1.39	1.39	1.40	1.40	1.40	1.40	-0.2%

Table 15. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.61	9.62	9.66	9.70	9.75	9.77	9.78	9.80	9.84	9.87	9.88	9.91	0.5%
Distillate Fuel	8.46	8.45	8.52	8.59	8.68	8.68	8.69	8.69	8.76	8.83	8.81	8.83	0.4%
Jet Fuel	5.92	5.97	6.02	6.11	6.20	6.22	6.23	6.27	6.30	6.32	6.34	6.42	0.3%
Liquefied Petroleum Gas	15.97	16.14	16.24	16.29	16.36	16.43	16.48	16.54	16.59	16.65	16.70	16.76	0.9%
Motor Gasoline 7/	11.18	11.19	11.21	11.21	11.22	11.23	11.23	11.24	11.25	11.26	11.27	11.28	0.2%
Residual Fuel	3.83	3.86	3.90	3.93	3.95	3.98	4.00	4.03	4.05	4.07	4.10	4.13	0.3%
Natural Gas	6.60	6.81	6.78	6.75	6.72	6.71	6.84	7.00	6.94	6.95	6.94	6.96	0.7%
Coal	1.44	1.44	1.43	1.42	1.41	1.41	1.41	1.41	1.42	1.42	1.42	1.42	-0.2%
Ethanol (E85) 10/	15.74	15.74	15.74	15.75	18.52	18.55	18.63	18.74	18.78	18.83	18.89	18.94	1.0%
Electricity	19.44	19.55	19.62	19.57	19.60	19.54	19.57	19.62	19.57	19.47	19.55	19.56	0.0%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	39.08	39.89	40.60	40.97	41.62	42.13	42.95	43.61	44.13	44.63	45.47	46.02	1.6%
Commercial	29.91	30.86	31.78	32.73	33.95	35.05	36.21	37.22	37.80	38.32	39.27	40.34	2.9%
Industrial	16.75	17.24	17.63	18.01	18.42	18.67	19.09	19.45	19.67	19.94	20.34	20.74	1.8%
Transportation	66.19	67.58	68.99	70.39	71.81	73.11	74.42	75.91	77.48	79.18	80.88	82.83	2.6%
Total Non-Renewable Expenditures	151.93	155.59	159.01	162.10	165.80	168.97	172.67	176.20	179.08	182.07	185.95	189.93	2.3%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.1%
Total Expenditures	151.94	155.59	159.01	162.11	165.81	168.98	172.68	176.21	179.09	182.08	185.96	189.95	2.3%

Table 15. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
South Atlantic

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 16. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	15.75	14.87	17.21	16.97	16.38	16.17	15.85	15.71	15.46	15.26	15.25	15.41	15.52
Primary Energy 1/	11.15	8.96	10.41	10.28	9.49	9.37	9.32	9.31	9.13	8.96	9.10	9.29	9.42
Petroleum Products 2/	13.94	12.58	15.64	14.94	13.10	13.15	13.23	13.33	13.44	13.44	13.60	13.67	13.77
Distillate Fuel	7.09	7.22	7.97	7.29	6.97	6.88	6.87	6.86	6.86	6.86	6.91	6.94	6.97
Liquefied Petroleum Gas	15.46	13.39	17.07	16.72	14.47	14.53	14.60	14.72	14.84	14.83	15.01	15.08	15.18
Natural Gas	10.30	7.89	8.95	8.94	8.46	8.29	8.22	8.19	7.93	7.73	7.88	8.10	8.25
Electricity	19.30	19.24	22.57	22.36	21.92	21.68	21.16	20.89	20.58	20.36	20.20	20.31	20.38
Commercial	14.49	13.89	14.24	14.08	13.69	13.44	13.23	13.20	13.09	13.03	13.09	13.32	13.47
Primary Energy 1/	8.51	6.63	7.73	7.45	6.97	6.85	6.83	6.84	6.67	6.55	6.68	6.86	6.99
Petroleum Products 2/	7.94	7.25	8.17	7.81	7.08	6.90	6.89	6.89	6.87	6.88	6.93	6.94	6.95
Distillate Fuel	5.85	5.55	6.13	5.59	5.07	4.98	4.97	4.96	4.96	4.96	5.01	5.04	5.07
Residual Fuel	4.02	4.07	4.79	3.99	3.43	3.45	3.48	3.51	3.54	3.57	3.60	3.62	3.65
Natural Gas	9.20	6.92	8.17	7.84	7.38	7.24	7.21	7.21	6.98	6.81	6.96	7.19	7.35
Electricity	18.52	18.55	18.73	18.56	18.26	17.87	17.52	17.43	17.34	17.30	17.27	17.49	17.59
Industrial 3/	5.96	5.62	6.73	6.26	6.11	6.04	6.05	6.11	6.09	6.07	6.12	6.27	6.37
Primary Energy	4.51	4.01	5.05	4.45	4.31	4.26	4.30	4.36	4.30	4.27	4.35	4.46	4.56
Petroleum Products 2/	5.89	5.64	6.43	5.99	5.96	5.88	5.91	5.92	5.95	5.96	6.02	6.04	6.07
Distillate Fuel	6.23	5.91	6.53	5.96	5.43	5.34	5.33	5.32	5.32	5.32	5.37	5.40	5.43
Liquefied Petroleum Gas	12.77	9.91	12.64	12.37	10.99	11.05	11.12	11.24	11.36	11.35	11.53	11.60	11.70
Residual Fuel	3.77	3.88	4.58	3.81	3.15	3.18	3.21	3.24	3.27	3.29	3.33	3.35	3.38
Natural Gas 4/	4.57	3.42	5.22	4.17	3.79	3.72	3.79	3.91	3.76	3.68	3.83	4.06	4.24
Metallurgical Coal	1.67	1.83	2.00	1.98	1.95	1.94	1.93	1.93	1.93	1.92	1.91	1.89	1.88
Steam Coal	1.64	1.60	1.73	1.71	1.70	1.69	1.67	1.68	1.66	1.65	1.64	1.63	1.61
Electricity	11.01	10.88	12.34	12.15	12.01	11.83	11.67	11.67	11.70	11.68	11.61	11.79	11.89
Transportation	10.36	9.88	11.08	10.14	10.17	10.30	10.40	10.41	10.39	10.39	10.43	10.42	10.40
Primary Energy	10.34	9.86	11.06	10.12	10.15	10.28	10.38	10.40	10.38	10.37	10.41	10.41	10.38
Petroleum Products 2/	10.34	9.86	11.06	10.12	10.15	10.28	10.38	10.40	10.38	10.38	10.42	10.41	10.39
Distillate Fuel 5/	9.61	8.99	9.93	9.07	9.28	9.59	9.80	9.84	9.76	9.73	9.81	9.80	9.69
Jet Fuel 6/	6.13	5.89	6.62	6.23	5.92	5.59	5.51	5.52	5.53	5.57	5.71	5.73	5.76
Motor Gasoline 7/	11.43	10.91	12.27	11.18	11.20	11.34	11.42	11.44	11.44	11.44	11.45	11.45	11.45
Residual Fuel	3.39	3.20	3.77	3.14	2.44	2.47	2.50	2.53	2.56	2.59	2.62	2.65	2.68
Liquefied Petroleum Gas8/	16.03	14.39	15.78	15.78	14.36	14.40	14.44	14.53	14.61	14.57	14.71	14.74	14.81
Natural Gas 9/	9.69	8.22	10.03	8.98	8.58	8.55	8.65	8.79	8.66	8.60	8.75	8.99	9.16
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.16	16.35	16.47	16.48	16.49	16.49	16.49	16.49	16.50
Electricity	18.29	17.63	18.47	18.08	17.72	17.27	16.91	16.77	16.62	16.52	16.42	16.56	16.62
Average End-Use Energy	9.88	9.44	10.71	10.13	9.95	9.93	9.92	9.93	9.89	9.86	9.91	10.00	10.06
Primary Energy	8.16	7.53	8.70	8.01	7.88	7.93	8.00	8.05	8.01	7.99	8.06	8.13	8.18
Electricity	15.97	15.93	17.72	17.49	17.18	16.91	16.56	16.45	16.33	16.24	16.15	16.32	16.40
Electric Generators 11/													
Fossil Fuel Average	1.61	1.53	1.82	1.75	1.67	1.64	1.64	1.68	1.59	1.62	1.67	1.72	1.86
Petroleum Products	4.26	4.28	6.21	5.68	4.78	4.54	4.42	4.09	3.55	3.47	3.43	3.48	3.50
Distillate Fuel	5.68	5.72	6.32	5.78	5.23	5.14	5.13	5.12	5.12	5.12	5.17	5.20	5.23
Residual Fuel	3.92	3.75	4.42	3.69	2.78	2.81	2.84	2.87	2.90	2.92	2.96	2.98	3.01
Natural Gas	4.07	3.40	5.49	4.40	3.98	3.88	3.93	4.04	3.88	3.83	3.99	4.22	4.46
Steam Coal	1.31	1.26	1.26	1.25	1.24	1.24	1.25	1.26	1.24	1.24	1.23	1.22	1.22



Table 16. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.32	9.01	10.17	9.39	9.34	9.43	9.52	9.53	9.55	9.55	9.60	9.60	9.58
Distillate Fuel	8.86	8.36	9.20	8.43	8.50	8.74	8.92	8.95	8.92	8.90	8.98	8.98	8.90
Jet Fuel	6.13	5.89	6.62	6.23	5.92	5.59	5.51	5.52	5.53	5.57	5.71	5.73	5.76
Liquefied Petroleum Gas	14.26	11.89	15.14	14.80	12.95	13.03	13.10	13.21	13.33	13.32	13.49	13.56	13.65
Motor Gasoline 7/	11.42	10.91	12.26	11.18	11.21	11.34	11.42	11.44	11.44	11.44	11.46	11.45	11.45
Residual Fuel	3.81	3.45	3.99	3.32	2.67	2.71	2.74	2.78	2.81	2.85	2.89	2.92	2.95
Natural Gas	6.20	4.65	6.35	5.49	5.08	5.00	5.03	5.10	4.99	4.83	4.96	5.18	5.30
Coal	1.33	1.29	1.29	1.28	1.28	1.27	1.28	1.28	1.27	1.27	1.26	1.25	1.25
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.16	16.35	16.47	16.48	16.49	16.49	16.49	16.49	16.50
Electricity	15.97	15.93	17.72	17.49	17.18	16.91	16.56	16.45	16.33	16.24	16.15	16.32	16.40
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	10.01	9.67	11.26	11.28	10.97	10.97	10.89	10.96	10.90	10.92	11.04	11.29	11.43
Commercial	6.47	6.31	6.63	6.84	6.93	7.02	7.12	7.32	7.48	7.67	7.90	8.23	8.50
Industrial	9.25	8.57	10.20	9.61	9.57	9.57	9.67	9.84	9.85	9.95	10.17	10.53	10.86
Transportation	18.77	18.01	20.43	19.30	19.93	20.63	21.22	21.64	22.00	22.40	22.89	23.28	23.65
Total Non-Renewable Expenditures	44.50	42.56	48.52	47.03	47.40	48.19	48.91	49.76	50.23	50.93	52.00	53.32	54.44
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	44.51	42.56	48.52	47.04	47.40	48.19	48.91	49.76	50.23	50.93	52.00	53.32	54.44

Table 16. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	15.60	15.75	15.78	15.77	15.79	15.75	15.82	15.90	15.85	15.80	15.86	15.89	0.3%
Primary Energy 1/	9.46	9.65	9.64	9.63	9.63	9.64	9.75	9.88	9.82	9.83	9.81	9.84	0.4%
Petroleum Products 2/	13.82	13.99	14.11	14.20	14.31	14.40	14.49	14.57	14.65	14.74	14.82	14.91	0.7%
Distillate Fuel	6.96	7.05	7.11	7.22	7.33	7.38	7.43	7.49	7.52	7.51	7.53	7.60	0.2%
Liquefied Petroleum Gas	15.22	15.39	15.49	15.55	15.62	15.69	15.75	15.80	15.86	15.92	15.98	16.04	0.8%
Natural Gas	8.29	8.48	8.44	8.41	8.39	8.38	8.50	8.65	8.55	8.54	8.50	8.52	0.3%
Electricity	20.45	20.55	20.61	20.58	20.61	20.52	20.55	20.57	20.51	20.42	20.51	20.54	0.3%
Commercial	13.59	13.78	13.89	13.94	14.03	14.03	14.13	14.21	14.17	14.14	14.24	14.31	0.1%
Primary Energy 1/	7.03	7.20	7.19	7.19	7.19	7.20	7.31	7.43	7.37	7.36	7.35	7.37	0.5%
Petroleum Products 2/	6.94	7.00	7.06	7.13	7.22	7.26	7.30	7.35	7.37	7.36	7.38	7.43	0.1%
Distillate Fuel	5.06	5.15	5.21	5.32	5.43	5.48	5.54	5.59	5.62	5.61	5.63	5.70	0.1%
Residual Fuel	3.68	3.71	3.74	3.77	3.79	3.83	3.85	3.88	3.91	3.94	3.97	4.00	-0.1%
Natural Gas	7.40	7.60	7.57	7.55	7.53	7.52	7.66	7.80	7.71	7.71	7.69	7.71	0.5%
Electricity	17.71	17.87	18.01	18.06	18.15	18.12	18.16	18.18	18.11	18.01	18.15	18.20	-0.1%
Industrial 3/	6.44	6.59	6.67	6.72	6.77	6.79	6.87	6.94	6.92	6.91	6.95	6.99	1.0%
Primary Energy	4.61	4.73	4.78	4.82	4.86	4.89	4.98	5.06	5.05	5.05	5.06	5.09	1.0%
Petroleum Products 2/	6.08	6.17	6.26	6.35	6.44	6.49	6.53	6.58	6.60	6.59	6.61	6.64	0.7%
Distillate Fuel	5.42	5.50	5.57	5.68	5.79	5.84	5.89	5.95	5.98	5.97	5.99	6.06	0.1%
Liquefied Petroleum Gas	11.74	11.90	12.01	12.07	12.14	12.21	12.26	12.32	12.38	12.44	12.50	12.56	1.0%
Residual Fuel	3.41	3.44	3.47	3.50	3.52	3.55	3.58	3.61	3.64	3.67	3.70	3.73	-0.2%
Natural Gas 4/	4.32	4.53	4.53	4.52	4.51	4.51	4.65	4.79	4.71	4.71	4.69	4.71	1.4%
Metallurgical Coal	1.88	1.87	1.87	1.86	1.86	1.84	1.82	1.81	1.79	1.78	1.77	1.76	-0.2%
Steam Coal	1.61	1.61	1.60	1.59	1.59	1.57	1.56	1.57	1.57	1.57	1.56	1.55	-0.1%
Electricity	12.00	12.15	12.27	12.31	12.36	12.31	12.34	12.34	12.28	12.20	12.31	12.33	0.5%
Transportation	10.41	10.43	10.44	10.45	10.46	10.45	10.44	10.46	10.47	10.49	10.49	10.50	0.3%
Primary Energy	10.39	10.41	10.43	10.43	10.44	10.44	10.43	10.44	10.45	10.47	10.47	10.49	0.3%
Petroleum Products 2/	10.40	10.42	10.43	10.44	10.45	10.44	10.43	10.44	10.45	10.47	10.48	10.49	0.3%
Distillate Fuel 5/	9.74	9.75	9.75	9.74	9.73	9.69	9.62	9.63	9.64	9.67	9.65	9.66	0.3%
Jet Fuel 6/	5.74	5.79	5.87	5.96	6.07	6.09	6.11	6.16	6.19	6.22	6.24	6.33	0.3%
Motor Gasoline 7/	11.46	11.48	11.49	11.49	11.50	11.51	11.51	11.52	11.53	11.54	11.55	11.56	0.2%
Residual Fuel	2.70	2.73	2.76	2.79	2.82	2.85	2.88	2.91	2.94	2.97	3.00	3.03	-0.2%
Liquefied Petroleum Gas8/	14.81	14.94	15.02	15.04	15.07	15.10	15.13	15.15	15.17	15.20	15.23	15.26	0.3%
Natural Gas 9/	9.23	9.41	9.40	9.37	9.33	9.30	9.41	9.53	9.42	9.38	9.34	9.34	0.6%
Ethanol (E85) 10/	16.50	16.52	16.53	16.53	16.54	16.55	16.55	16.56	16.57	16.58	16.60	16.60	0.4%
Electricity	16.71	16.80	16.85	16.82	16.80	16.68	16.68	16.66	16.56	16.44	16.49	16.48	-0.3%
Average End-Use Energy	10.12	10.22	10.27	10.30	10.33	10.33	10.37	10.42	10.40	10.39	10.42	10.45	0.4%
Primary Energy	8.21	8.29	8.32	8.34	8.36	8.37	8.41	8.47	8.46	8.47	8.48	8.51	0.5%
Electricity	16.50	16.62	16.73	16.73	16.78	16.72	16.76	16.76	16.68	16.58	16.69	16.70	0.2%
Electric Generators 11/													
Fossil Fuel Average	2.02	2.16	2.25	2.29	2.22	2.14	2.14	2.10	2.01	1.94	1.93	1.90	1.0%
Petroleum Products	3.75	4.08	4.18	4.10	3.72	3.71	3.73	4.12	3.91	3.81	3.87	4.04	-0.3%
Distillate Fuel	5.22	5.31	5.37	5.48	5.59	5.64	5.69	5.75	5.78	5.77	5.79	5.86	0.1%
Residual Fuel	3.04	3.07	3.10	3.13	3.15	3.18	3.21	3.24	3.27	3.30	3.33	3.36	-0.5%
Natural Gas	4.60	4.85	4.88	4.89	4.86	4.85	4.99	5.14	5.05	5.02	5.01	5.03	1.7%
Steam Coal	1.22	1.22	1.21	1.20	1.20	1.19	1.20	1.21	1.21	1.21	1.21	1.21	-0.2%

Table 16. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.59	9.62	9.65	9.68	9.71	9.73	9.73	9.74	9.76	9.78	9.79	9.81	0.4%
Distillate Fuel	8.92	8.94	8.94	8.97	9.01	8.99	8.94	8.95	8.98	9.01	9.00	9.02	0.3%
Jet Fuel	5.74	5.79	5.87	5.96	6.07	6.09	6.11	6.16	6.19	6.22	6.24	6.33	0.3%
Liquefied Petroleum Gas	13.69	13.85	13.96	14.00	14.07	14.14	14.19	14.24	14.30	14.36	14.42	14.47	0.9%
Motor Gasoline 7/	11.46	11.48	11.49	11.49	11.50	11.51	11.51	11.52	11.53	11.54	11.55	11.56	0.3%
Residual Fuel	2.98	3.00	3.04	3.06	3.09	3.12	3.15	3.18	3.21	3.24	3.27	3.30	-0.2%
Natural Gas	5.33	5.51	5.49	5.46	5.44	5.44	5.59	5.74	5.66	5.66	5.64	5.66	0.9%
Coal	1.24	1.24	1.24	1.23	1.22	1.21	1.22	1.22	1.23	1.23	1.23	1.23	-0.2%
Ethanol (E85) 10/	16.50	16.52	16.53	16.53	16.54	16.55	16.55	16.56	16.57	16.58	16.60	16.60	0.4%
Electricity	16.50	16.62	16.73	16.73	16.78	16.72	16.76	16.76	16.68	16.58	16.69	16.70	0.2%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	11.58	11.78	11.94	12.00	12.13	12.21	12.41	12.53	12.59	12.68	12.87	12.97	1.3%
Commercial	8.76	9.06	9.30	9.50	9.73	9.89	10.10	10.27	10.35	10.42	10.56	10.65	2.3%
Industrial	11.10	11.46	11.73	11.99	12.26	12.43	12.73	12.98	13.11	13.28	13.54	13.83	2.1%
Transportation	24.02	24.39	24.74	25.10	25.46	25.76	26.05	26.42	26.82	27.26	27.68	28.18	2.0%
Total Non-Renewable Expenditures	55.46	56.69	57.71	58.60	59.57	60.28	61.28	62.21	62.87	63.63	64.66	65.63	1.9%
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	7.9%
Total Expenditures	55.46	56.69	57.71	58.60	59.58	60.29	61.29	62.21	62.88	63.63	64.66	65.63	1.9%

Table 16. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
East South Central

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 17. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	18.97	16.81	17.86	17.59	17.18	16.94	17.20	17.30	17.23	16.93	17.09	17.63	17.79
Primary Energy 1/	9.55	7.79	8.89	8.90	8.33	8.20	8.15	8.13	7.89	7.70	7.86	8.08	8.23
Petroleum Products 2/	15.02	12.37	15.74	15.40	13.12	13.28	13.35	13.46	13.57	13.56	13.73	13.80	13.90
Distillate Fuel	7.19	6.42	7.09	6.48	6.28	6.13	6.12	6.11	6.11	6.11	6.16	6.19	6.22
Liquefied Petroleum Gas	15.19	12.44	15.85	15.52	13.21	13.38	13.45	13.57	13.68	13.67	13.85	13.92	14.02
Natural Gas	9.20	7.51	8.50	8.53	8.05	7.90	7.84	7.81	7.55	7.34	7.51	7.73	7.88
Electricity	25.07	22.55	23.41	23.00	22.61	22.28	22.69	22.80	22.78	22.37	22.46	23.11	23.19
Commercial	16.10	14.25	15.45	15.15	14.80	14.61	14.53	14.78	14.91	14.65	14.86	15.44	15.59
Primary Energy 1/	7.18	6.02	7.09	6.82	6.35	6.21	6.19	6.20	6.00	5.84	5.99	6.19	6.34
Petroleum Products 2/	7.92	6.79	7.68	7.31	6.80	6.62	6.63	6.65	6.65	6.66	6.72	6.74	6.77
Distillate Fuel	5.72	5.43	6.01	5.48	5.08	4.93	4.92	4.91	4.91	4.91	4.96	4.99	5.02
Residual Fuel	3.48	3.45	4.08	3.39	3.01	3.04	3.07	3.09	3.12	3.14	3.17	3.20	3.23
Natural Gas	7.09	5.92	7.02	6.75	6.28	6.15	6.13	6.14	5.91	5.73	5.90	6.12	6.28
Electricity	22.07	19.60	20.89	20.30	19.99	19.71	19.57	19.89	20.19	19.85	20.03	20.77	20.84
Industrial 3/	7.79	5.84	7.37	6.79	6.33	6.36	6.42	6.54	6.52	6.42	6.52	6.69	6.82
Primary Energy	7.24	5.30	6.93	6.32	5.84	5.87	5.93	6.03	6.00	5.91	6.01	6.14	6.27
Petroleum Products 2/	9.82	7.03	8.55	8.30	7.69	7.79	7.85	7.93	8.02	8.02	8.14	8.19	8.27
Distillate Fuel	6.30	5.86	6.48	5.92	5.51	5.36	5.35	5.34	5.34	5.34	5.39	5.42	5.44
Liquefied Petroleum Gas	12.51	7.83	9.99	9.77	8.92	9.09	9.16	9.28	9.39	9.38	9.55	9.62	9.72
Residual Fuel	2.68	3.48	4.11	3.42	3.16	3.18	3.21	3.23	3.26	3.28	3.32	3.34	3.37
Natural Gas 4/	4.39	3.28	5.10	4.10	3.72	3.66	3.73	3.84	3.69	3.58	3.73	3.95	4.13
Metallurgical 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
Steam Coal	1.27	1.30	1.40	1.38	1.34	1.33	1.32	1.33	1.33	1.32	1.32	1.33	1.33
Electricity	15.36	13.12	13.27	12.99	12.86	12.80	12.88	13.24	13.38	13.16	13.33	13.87	13.99
Transportation	9.27	8.81	9.89	9.05	9.14	9.19	9.26	9.29	9.28	9.28	9.35	9.34	9.33
Primary Energy	9.25	8.79	9.87	9.03	9.12	9.17	9.24	9.27	9.26	9.26	9.33	9.32	9.31
Petroleum Products 2/	9.25	8.79	9.87	9.03	9.12	9.17	9.24	9.27	9.26	9.26	9.33	9.32	9.31
Distillate Fuel 5/	9.70	9.00	9.96	9.09	9.18	9.50	9.72	9.76	9.67	9.63	9.71	9.70	9.60
Jet Fuel 6/	5.88	5.53	6.22	5.86	5.70	5.37	5.29	5.30	5.31	5.38	5.49	5.52	5.54
Motor Gasoline 7/	11.21	10.77	12.11	11.03	11.25	11.34	11.41	11.45	11.44	11.43	11.47	11.43	11.44
Residual Fuel	5.08	3.71	4.38	3.64	3.30	3.32	3.35	3.38	3.40	3.43	3.46	3.49	3.52
Liquefied Petroleum Gas8/	16.60	14.14	15.16	15.16	12.76	12.90	12.95	13.03	13.11	13.07	13.21	13.24	13.30
Natural Gas 9/	9.07	8.07	9.75	8.75	8.34	8.35	8.47	8.62	8.50	8.43	8.60	8.84	9.01
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	17.73	17.84	18.09	18.17	18.26	18.30	18.55	18.77	18.88
Electricity	19.58	19.49	19.56	19.01	18.68	18.41	18.11	18.41	18.56	18.34	18.57	19.23	19.34
Average End-Use Energy	9.59	8.09	9.46	8.83	8.55	8.56	8.63	8.74	8.74	8.65	8.76	8.93	9.01
Primary Energy	8.00	6.58	8.01	7.36	7.07	7.11	7.17	7.25	7.22	7.17	7.26	7.36	7.44
Electricity	21.07	18.67	19.51	19.07	18.79	18.55	18.68	18.94	19.09	18.76	18.91	19.56	19.64
Electric Generators 11/													
Fossil Fuel Average	2.77	2.34	2.93	2.50	2.33	2.29	2.35	2.45	2.41	2.42	2.51	2.64	2.74
Petroleum Products	5.44	4.52	5.36	4.76	4.35	4.32	4.34	4.30	4.44	4.58	4.46	4.43	4.43
Distillate Fuel	6.59	5.52	6.11	5.56	5.00	4.85	4.83	4.83	4.82	4.82	4.87	4.91	4.93
Residual Fuel	4.95	4.31	5.08	4.24	4.05	4.08	4.11	4.13	4.16	4.18	4.22	4.24	4.27
Natural Gas	4.31	3.44	5.29	4.21	3.80	3.72	3.78	3.91	3.76	3.68	3.84	4.07	4.26
Steam Coal	1.32	1.35	1.34	1.33	1.34	1.34	1.32	1.32	1.32	1.32	1.32	1.32	1.32

Table 17. Energy Prices by Sector and Source  
 (2002 Dollars per Million Btu, Unless Otherwise Noted)  
 West South Central

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.66	8.08	9.40	8.86	8.61	8.68	8.75	8.81	8.86	8.86	8.94	8.96	8.99
Distillate Fuel	8.81	8.22	9.08	8.33	8.33	8.55	8.74	8.78	8.74	8.72	8.80	8.80	8.73
Jet Fuel	5.88	5.53	6.22	5.86	5.70	5.37	5.29	5.30	5.31	5.38	5.49	5.52	5.54
Liquefied Petroleum Gas	12.55	7.90	10.07	9.86	8.99	9.16	9.23	9.35	9.46	9.45	9.62	9.69	9.79
Motor Gasoline 7/	11.21	10.77	12.11	11.02	11.25	11.34	11.41	11.45	11.44	11.43	11.47	11.43	11.44
Residual Fuel	5.00	3.76	4.39	3.64	3.31	3.34	3.36	3.40	3.41	3.43	3.48	3.52	3.56
Natural Gas	4.81	3.74	5.50	4.58	4.18	4.11	4.16	4.26	4.09	3.97	4.12	4.34	4.51
Coal	1.32	1.35	1.34	1.34	1.34	1.34	1.32	1.32	1.32	1.32	1.32	1.32	1.32
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	17.73	17.84	18.09	18.17	18.26	18.30	18.55	18.77	18.88
Electricity	21.07	18.67	19.51	19.07	18.79	18.55	18.68	18.94	19.09	18.76	18.91	19.56	19.64
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	18.98	17.30	18.76	18.75	18.49	18.51	19.02	19.39	19.52	19.50	19.94	20.81	21.12
Commercial	13.57	11.86	13.06	13.01	13.17	13.41	13.72	14.28	14.74	14.85	15.36	16.19	16.53
Industrial	46.68	35.26	43.89	41.26	39.21	39.90	40.94	42.19	42.31	42.33	43.90	45.64	47.23
Transportation	36.78	34.69	39.48	37.36	38.94	40.21	41.47	42.60	43.53	44.60	45.92	46.92	47.93
Total Non-Renewable Expenditures	116.01	99.11	115.19	110.38	109.81	112.02	115.14	118.46	120.09	121.27	125.12	129.55	132.81
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	116.02	99.11	115.19	110.39	109.81	112.02	115.14	118.46	120.10	121.28	125.13	129.56	132.81

Table 17. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	17.95	18.30	18.44	18.21	18.50	18.49	18.72	19.03	19.00	18.90	19.21	19.34	0.6%
Primary Energy 1/	8.29	8.49	8.46	8.44	8.42	8.42	8.56	8.72	8.63	8.63	8.60	8.63	0.4%
Petroleum Products 2/	13.93	14.09	14.20	14.25	14.32	14.38	14.44	14.49	14.55	14.61	14.66	14.82	0.8%
Distillate Fuel	6.21	6.28	6.35	6.45	6.58	6.63	6.69	6.73	6.75	6.76	6.78	6.84	0.3%
Liquefied Petroleum Gas	14.05	14.22	14.32	14.38	14.44	14.51	14.57	14.62	14.68	14.74	14.79	14.95	0.8%
Natural Gas	7.94	8.13	8.09	8.07	8.03	8.03	8.17	8.33	8.24	8.23	8.19	8.21	0.4%
Electricity	23.33	23.70	23.86	23.47	23.87	23.79	24.03	24.35	24.30	24.10	24.53	24.65	0.4%
Commercial	15.80	16.22	16.43	16.23	16.63	16.67	16.95	17.31	17.34	17.24	17.65	17.83	1.0%
Primary Energy 1/	6.40	6.58	6.58	6.57	6.55	6.56	6.70	6.84	6.76	6.75	6.73	6.75	0.5%
Petroleum Products 2/	6.77	6.84	6.90	6.99	7.09	7.14	7.19	7.22	7.25	7.26	7.28	7.35	0.3%
Distillate Fuel	5.01	5.08	5.15	5.26	5.38	5.43	5.49	5.53	5.55	5.56	5.58	5.64	0.2%
Residual Fuel	3.26	3.28	3.31	3.34	3.37	3.40	3.43	3.46	3.48	3.51	3.54	3.58	0.2%
Natural Gas	6.35	6.55	6.54	6.52	6.48	6.48	6.63	6.79	6.70	6.69	6.66	6.68	0.5%
Electricity	21.06	21.57	21.87	21.52	22.14	22.17	22.50	22.95	23.01	22.86	23.49	23.76	0.8%
Industrial 3/	6.90	7.09	7.17	7.18	7.22	7.25	7.37	7.49	7.47	7.46	7.50	7.57	1.1%
Primary Energy	6.35	6.52	6.58	6.62	6.64	6.68	6.79	6.89	6.88	6.88	6.89	6.95	1.2%
Petroleum Products 2/	8.29	8.43	8.53	8.59	8.67	8.75	8.80	8.85	8.88	8.91	8.95	9.07	1.1%
Distillate Fuel	5.44	5.51	5.58	5.68	5.81	5.86	5.92	5.96	5.98	5.99	6.01	6.07	0.2%
Liquefied Petroleum Gas	9.76	9.92	10.03	10.09	10.15	10.22	10.27	10.33	10.39	10.44	10.50	10.66	1.3%
Residual Fuel	3.40	3.43	3.45	3.48	3.51	3.54	3.57	3.60	3.63	3.66	3.69	3.72	0.3%
Natural Gas 4/	4.22	4.42	4.43	4.42	4.38	4.39	4.55	4.71	4.62	4.61	4.59	4.60	1.5%
Metallurgical 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	N/A
Steam Coal	1.34	1.35	1.34	1.38	1.34	1.32	1.36	1.36	1.37	1.37	1.37	1.36	0.2%
Electricity	14.15	14.55	14.74	14.50	14.83	14.83	15.06	15.37	15.34	15.20	15.57	15.69	0.8%
Transportation	9.34	9.36	9.39	9.42	9.44	9.44	9.44	9.47	9.49	9.51	9.53	9.57	0.4%
Primary Energy	9.32	9.34	9.37	9.39	9.42	9.42	9.42	9.44	9.46	9.49	9.50	9.55	0.4%
Petroleum Products 2/	9.32	9.34	9.37	9.39	9.42	9.42	9.42	9.44	9.46	9.49	9.50	9.55	0.4%
Distillate Fuel 5/	9.64	9.64	9.64	9.63	9.62	9.58	9.51	9.52	9.53	9.56	9.54	9.56	0.3%
Jet Fuel 6/	5.51	5.55	5.61	5.70	5.81	5.82	5.85	5.89	5.92	5.95	5.97	6.06	0.4%
Motor Gasoline 7/	11.45	11.46	11.48	11.49	11.49	11.50	11.51	11.51	11.52	11.53	11.54	11.55	0.3%
Residual Fuel	3.54	3.57	3.60	3.63	3.66	3.69	3.71	3.74	3.77	3.80	3.83	3.86	0.2%
Liquefied Petroleum Gas8/	13.30	13.43	13.50	13.53	13.55	13.59	13.61	13.63	13.65	13.68	13.70	13.83	-0.1%
Natural Gas 9/	9.09	9.28	9.28	9.25	9.19	9.16	9.29	9.42	9.31	9.27	9.23	9.23	0.6%
Ethanol (E85) 10/	18.98	19.06	19.12	19.18	19.22	19.24	16.65	16.65	16.66	16.68	16.69	16.71	0.4%
Electricity	19.51	19.88	20.05	19.73	20.08	20.02	20.23	20.53	20.47	20.28	20.66	20.74	0.3%
Average End-Use Energy	9.08	9.24	9.31	9.29	9.36	9.38	9.47	9.59	9.58	9.57	9.64	9.71	0.8%
Primary Energy	7.50	7.62	7.67	7.70	7.72	7.75	7.81	7.90	7.89	7.90	7.92	7.97	0.8%
Electricity	19.82	20.23	20.45	20.12	20.58	20.58	20.85	21.21	21.20	21.03	21.50	21.66	0.6%
Electric Generators 11/													
Fossil Fuel Average	2.80	2.90	2.94	2.96	2.94	2.93	3.00	3.06	3.02	2.96	2.95	2.92	1.0%
Petroleum Products	4.52	4.66	4.69	4.61	4.60	4.63	4.70	4.89	4.77	4.80	4.82	4.90	0.4%
Distillate Fuel	4.93	5.00	5.06	5.17	5.29	5.34	5.40	5.44	5.47	5.47	5.50	5.56	0.0%
Residual Fuel	4.30	4.33	4.35	4.38	4.41	4.44	4.47	4.50	4.53	4.56	4.59	4.62	0.3%
Natural Gas	4.36	4.56	4.59	4.58	4.54	4.54	4.70	4.85	4.76	4.74	4.72	4.74	1.4%
Steam Coal	1.32	1.32	1.31	1.30	1.30	1.28	1.28	1.27	1.27	1.27	1.27	1.27	-0.2%

Table 17. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.01	9.07	9.14	9.19	9.24	9.27	9.30	9.33	9.36	9.39	9.42	9.49	0.7%
Distillate Fuel	8.76	8.74	8.77	8.82	8.85	8.83	8.79	8.79	8.83	8.87	8.86	8.88	0.3%
Jet Fuel	5.51	5.55	5.61	5.70	5.81	5.82	5.85	5.89	5.92	5.95	5.97	6.06	0.4%
Liquefied Petroleum Gas	9.83	10.00	10.10	10.16	10.22	10.29	10.34	10.40	10.46	10.51	10.57	10.73	1.3%
Motor Gasoline 7/	11.45	11.46	11.48	11.49	11.49	11.50	11.51	11.51	11.52	11.53	11.54	11.55	0.3%
Residual Fuel	3.59	3.63	3.65	3.68	3.71	3.74	3.76	3.79	3.82	3.84	3.87	3.90	0.2%
Natural Gas	4.60	4.80	4.81	4.80	4.76	4.76	4.91	5.07	4.98	4.97	4.94	4.96	1.2%
Coal	1.32	1.32	1.31	1.31	1.30	1.29	1.28	1.27	1.27	1.27	1.27	1.28	-0.2%
Ethanol (E85) 10/	18.98	19.06	19.12	19.18	19.22	19.24	16.65	16.65	16.66	16.68	16.69	16.71	0.4%
Electricity	19.82	20.23	20.45	20.12	20.58	20.58	20.85	21.21	21.20	21.03	21.50	21.66	0.6%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	21.52	22.15	22.59	22.54	23.15	23.42	24.03	24.58	24.81	24.98	25.75	26.14	1.8%
Commercial	16.93	17.52	17.86	17.79	18.39	18.60	19.06	19.62	19.83	19.93	20.62	21.07	2.5%
Industrial	48.11	49.97	51.20	52.09	53.32	54.34	55.98	57.51	58.11	58.95	60.12	61.63	2.5%
Transportation	48.91	49.85	50.81	51.80	52.80	53.63	54.45	55.44	56.46	57.55	58.62	59.94	2.4%
Total Non-Renewable Expenditures	135.47	139.49	142.46	144.22	147.67	149.99	153.52	157.15	159.20	161.41	165.11	168.79	2.3%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.4%
Total Expenditures	135.47	139.49	142.47	144.22	147.67	150.00	153.53	157.15	159.21	161.41	165.12	168.79	2.3%



Table 17. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
West South Central

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 18. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	14.53	13.57	14.51	14.15	13.88	13.61	13.41	13.29	13.09	12.92	13.02	13.08	13.29
Primary Energy 1/	8.87	7.33	8.87	8.71	7.94	7.75	7.62	7.47	7.19	7.13	7.26	7.29	7.48
Petroleum Products 2/	13.60	11.75	14.91	14.54	9.96	10.00	10.05	9.30	9.30	9.32	9.33	9.33	9.34
Distillate Fuel	7.87	7.66	8.47	7.73	7.58	7.50	7.61	7.59	7.59	7.66	7.74	7.73	7.74
Liquefied Petroleum Gas	13.88	11.95	15.23	14.92	10.09	10.13	10.17	9.38	9.38	9.39	9.40	9.40	9.40
Natural Gas	8.30	6.79	8.19	8.07	7.72	7.50	7.35	7.27	6.96	6.89	7.03	7.06	7.28
Electricity	23.12	23.07	22.58	22.71	23.31	23.08	22.85	22.84	22.84	22.54	22.61	22.74	22.97
Commercial	13.42	12.75	13.83	13.57	13.52	13.38	13.28	13.32	13.29	13.12	13.27	13.41	13.66
Primary Energy 1/	7.30	5.65	7.20	6.86	6.52	6.37	6.31	6.27	6.05	6.03	6.17	6.21	6.40
Petroleum Products 2/	7.89	7.22	8.04	7.51	6.76	6.64	6.74	6.63	6.62	6.69	6.76	6.74	6.75
Distillate Fuel	6.48	6.16	6.82	6.22	5.84	5.76	5.87	5.85	5.85	5.92	6.00	5.98	6.00
Residual Fuel	4.51	3.37	3.98	3.31	3.12	3.15	3.18	3.20	3.23	3.26	3.29	3.31	3.34
Natural Gas	7.39	5.54	7.25	6.93	6.65	6.49	6.39	6.37	6.10	6.06	6.21	6.26	6.48
Electricity	19.39	19.46	19.92	19.81	19.96	19.79	19.60	19.66	19.76	19.40	19.46	19.60	19.80
Industrial 3/	6.78	6.56	7.06	6.58	6.56	6.52	6.57	6.61	6.62	6.59	6.70	6.74	6.84
Primary Energy	4.66	4.30	5.53	4.79	4.70	4.65	4.67	4.67	4.60	4.68	4.76	4.80	4.90
Petroleum Products 2/	6.19	5.91	6.76	6.04	6.01	5.93	6.00	5.91	5.90	5.97	6.01	6.00	6.01
Distillate Fuel	6.58	6.45	7.13	6.50	6.12	6.04	6.15	6.14	6.13	6.20	6.29	6.27	6.28
Liquefied Petroleum Gas	12.00	8.87	11.31	11.07	6.85	6.89	6.93	6.14	6.14	6.15	6.16	6.16	6.17
Residual Fuel	3.27	3.77	4.45	3.69	3.51	3.53	3.56	3.59	3.62	3.64	3.67	3.70	3.73
Natural Gas 4/	3.95	3.17	5.49	4.43	4.17	4.06	4.04	4.12	3.95	4.00	4.15	4.22	4.46
Metallurgical Coal	1.23	1.34	1.43	1.42	1.40	1.38	1.37	1.36	1.35	1.35	1.34	1.33	1.32
Steam Coal	1.65	1.66	1.76	1.73	1.70	1.70	1.69	1.70	1.69	1.69	1.68	1.68	1.68
Electricity	14.36	14.23	12.30	12.63	12.95	13.02	13.13	13.37	13.67	13.36	13.59	13.68	13.81
Transportation	11.29	10.51	11.79	10.79	11.35	11.44	11.49	11.48	11.46	11.48	11.50	11.48	11.45
Primary Energy	11.26	10.48	11.77	10.76	11.33	11.42	11.47	11.46	11.44	11.46	11.47	11.46	11.43
Petroleum Products 2/	11.26	10.49	11.77	10.77	11.33	11.42	11.47	11.46	11.45	11.46	11.48	11.46	11.44
Distillate Fuel 5/	10.57	9.76	10.78	9.84	10.44	10.74	10.93	10.95	10.87	10.88	10.98	10.96	10.86
Jet Fuel 6/	6.78	6.52	7.33	6.90	6.88	6.53	6.35	6.38	6.37	6.31	6.35	6.31	6.27
Motor Gasoline 7/	12.52	11.61	13.05	11.90	12.57	12.67	12.70	12.68	12.69	12.73	12.70	12.69	12.69
Residual Fuel	3.40	3.56	3.43	3.46	3.47	3.49	3.49	3.51	3.53	3.54	3.56	3.58	3.60
Liquefied Petroleum Gas8/	17.23	14.39	15.78	15.78	11.40	11.41	11.42	10.60	10.56	10.54	10.52	10.48	10.45
Natural Gas 9/	8.83	7.60	9.72	8.73	8.53	8.51	8.55	8.67	8.52	8.57	8.73	8.80	9.03
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.96	17.06	17.28	17.37	17.45	17.51	17.74	17.96	18.07
Electricity	19.13	19.72	19.10	19.72	20.08	19.90	19.78	19.86	20.00	19.73	19.87	19.99	20.17
Average End-Use Energy	10.99	10.36	11.38	10.75	10.93	10.89	10.89	10.90	10.86	10.82	10.90	10.94	11.02
Primary Energy	9.02	8.20	9.57	8.82	8.99	9.00	9.03	9.02	8.96	8.99	9.06	9.07	9.13
Electricity	19.22	19.20	18.72	18.80	19.14	19.00	18.90	19.00	19.14	18.83	18.96	19.09	19.28
Electric Generators 11/													
Fossil Fuel Average	1.79	1.49	2.10	1.79	1.77	1.77	1.78	1.86	1.81	1.75	1.84	1.88	1.89
Petroleum Products	7.32	6.40	7.08	6.46	6.01	5.93	6.04	6.02	6.02	6.09	6.17	6.10	6.13
Distillate Fuel	7.80	6.40	7.08	6.46	6.01	5.93	6.04	6.02	6.02	6.09	6.17	6.16	6.17
Residual Fuel	6.60	4.59	5.42	3.98	3.38	3.41	3.44	3.47	3.49	3.52	4.49	4.52	4.55
Natural Gas	5.39	3.84	5.61	4.77	4.66	4.61	4.61	4.70	4.51	4.46	4.61	4.70	4.89
Steam Coal	1.07	1.08	1.06	1.05	1.05	1.05	1.04	1.05	1.08	1.09	1.14	1.17	1.20

Table 18. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	10.39	9.71	10.96	10.07	10.41	10.47	10.54	10.52	10.53	10.56	10.59	10.57	10.55
Distillate Fuel	9.43	8.80	9.72	8.92	9.27	9.50	9.71	9.75	9.77	9.82	9.93	9.94	9.87
Jet Fuel	6.78	6.52	7.33	6.90	6.88	6.53	6.35	6.38	6.37	6.31	6.35	6.31	6.27
Liquefied Petroleum Gas	13.51	11.24	14.25	14.01	9.39	9.46	9.51	8.74	8.75	8.77	8.79	8.79	8.80
Motor Gasoline 7/	12.52	11.61	13.05	11.89	12.57	12.66	12.70	12.68	12.69	12.73	12.70	12.69	12.69
Residual Fuel	6.14	3.73	4.39	3.65	3.39	3.42	3.45	3.47	3.50	3.53	3.56	3.61	3.64
Natural Gas	6.27	4.90	6.44	5.96	5.71	5.59	5.52	5.54	5.31	5.31	5.45	5.50	5.73
Coal	1.09	1.11	1.09	1.08	1.08	1.08	1.07	1.07	1.10	1.12	1.16	1.19	1.21
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.96	17.06	17.28	17.37	17.45	17.51	17.74	17.96	18.07
Electricity	19.22	19.20	18.72	18.80	19.14	19.00	18.90	19.00	19.14	18.83	18.96	19.09	19.28
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	9.36	9.15	9.76	10.16	10.18	10.28	10.41	10.62	10.72	10.88	11.21	11.54	11.91
Commercial	7.54	7.04	7.67	7.70	7.86	7.97	8.11	8.37	8.63	8.82	9.20	9.56	10.00
Industrial	6.00	5.81	6.13	5.81	5.97	6.02	6.15	6.28	6.36	6.44	6.66	6.82	7.07
Transportation	19.69	18.47	21.29	20.44	22.42	23.43	24.32	25.13	25.93	26.83	27.74	28.59	29.43
Total Non-Renewable Expenditures	42.60	40.47	44.85	44.11	46.43	47.70	48.99	50.40	51.64	52.96	54.81	56.51	58.40
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	42.60	40.47	44.85	44.11	46.43	47.70	48.99	50.40	51.65	52.97	54.81	56.51	58.41

Table 18. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	13.38	13.44	13.51	13.48	13.46	13.18	13.28	13.46	13.52	13.45	13.53	13.41	-0.1%
Primary Energy 1/	7.55	7.64	7.74	7.80	7.67	7.48	7.62	7.81	7.88	7.87	7.89	7.78	0.3%
Petroleum Products 2/	9.34	9.33	9.36	9.37	9.40	9.41	9.38	9.37	9.38	9.40	9.42	9.39	-1.0%
Distillate Fuel	7.70	7.73	7.87	7.97	8.08	8.15	8.13	8.14	8.23	8.27	8.41	8.50	0.5%
Liquefied Petroleum Gas	9.40	9.39	9.42	9.42	9.45	9.46	9.42	9.41	9.42	9.44	9.45	9.42	-1.0%
Natural Gas	7.35	7.45	7.57	7.63	7.48	7.27	7.43	7.65	7.72	7.71	7.73	7.61	0.5%
Electricity	23.09	23.10	23.11	22.90	23.10	22.70	22.73	22.86	22.87	22.67	22.83	22.69	-0.1%
Commercial	13.83	13.91	14.03	13.99	14.09	13.85	13.96	14.20	14.31	14.27	14.44	14.40	0.5%
Primary Energy 1/	6.47	6.56	6.69	6.77	6.66	6.50	6.64	6.84	6.92	6.93	6.97	6.88	0.9%
Petroleum Products 2/	6.72	6.74	6.85	6.93	7.03	7.09	7.07	7.07	7.15	7.19	7.31	7.38	0.1%
Distillate Fuel	5.96	5.99	6.13	6.23	6.34	6.41	6.39	6.40	6.49	6.53	6.67	6.76	0.4%
Residual Fuel	3.37	3.40	3.43	3.46	3.49	3.52	3.55	3.58	3.60	3.64	3.67	3.70	0.4%
Natural Gas	6.57	6.67	6.80	6.88	6.74	6.54	6.71	6.93	7.01	7.02	7.05	6.93	1.0%
Electricity	19.95	19.94	19.99	19.79	20.00	19.67	19.71	19.91	19.98	19.86	20.09	20.05	0.1%
Industrial 3/	6.87	6.89	7.00	7.00	7.04	6.94	6.99	7.08	7.12	7.08	7.16	7.15	0.4%
Primary Energy	4.94	5.00	5.14	5.23	5.24	5.18	5.26	5.36	5.42	5.44	5.50	5.50	1.1%
Petroleum Products 2/	5.96	5.95	6.11	6.22	6.31	6.35	6.36	6.39	6.44	6.46	6.54	6.61	0.5%
Distillate Fuel	6.25	6.28	6.41	6.51	6.63	6.70	6.68	6.69	6.77	6.82	6.95	7.04	0.4%
Liquefied Petroleum Gas	6.17	6.15	6.18	6.18	6.21	6.22	6.19	6.17	6.18	6.20	6.21	6.18	-1.6%
Residual Fuel	3.76	3.79	3.81	3.84	3.87	3.90	3.93	3.96	3.99	4.02	4.05	4.08	0.4%
Natural Gas 4/	4.58	4.72	4.85	4.94	4.82	4.61	4.78	5.01	5.09	5.10	5.13	5.03	2.0%
Metallurgical Coal	1.31	1.30	1.30	1.29	1.29	1.28	1.27	1.27	1.26	1.25	1.25	1.24	-0.3%
Steam Coal	1.68	1.68	1.67	1.70	1.67	1.64	1.67	1.67	1.68	1.67	1.67	1.66	0.0%
Electricity	13.88	13.79	13.77	13.44	13.64	13.39	13.37	13.39	13.35	13.12	13.27	13.15	-0.3%
Transportation	11.45	11.44	11.50	11.49	11.48	11.49	11.48	11.50	11.59	11.61	11.75	11.80	0.5%
Primary Energy	11.43	11.42	11.48	11.47	11.45	11.46	11.45	11.48	11.56	11.59	11.73	11.78	0.5%
Petroleum Products 2/	11.43	11.43	11.49	11.47	11.46	11.47	11.46	11.49	11.57	11.59	11.74	11.79	0.5%
Distillate Fuel 5/	10.91	10.91	10.91	10.90	10.89	10.85	10.78	10.80	10.81	10.85	10.83	10.84	0.5%
Jet Fuel 6/	6.24	6.22	6.29	6.35	6.42	6.44	6.41	6.40	6.48	6.48	6.60	6.68	0.1%
Motor Gasoline 7/	12.68	12.67	12.75	12.72	12.69	12.72	12.74	12.77	12.88	12.90	13.12	13.18	0.6%
Residual Fuel	3.61	3.63	3.65	3.67	3.69	3.71	3.72	4.66	4.66	4.66	4.66	4.66	1.2%
Liquefied Petroleum Gas8/	10.41	10.36	10.35	10.32	10.31	10.28	10.22	10.17	10.14	10.13	10.11	10.05	-1.5%
Natural Gas 9/	9.13	9.24	9.37	9.45	9.31	9.10	9.24	9.45	9.52	9.51	9.54	9.41	0.9%
Ethanol (E85) 10/	18.16	18.23	18.33	18.37	18.40	18.43	18.50	18.63	18.73	18.79	18.90	18.96	1.0%
Electricity	20.28	20.23	20.22	19.93	20.07	19.68	19.65	19.70	19.65	19.42	19.53	19.37	-0.1%
Average End-Use Energy	11.06	11.09	11.18	11.17	11.19	11.10	11.14	11.24	11.32	11.31	11.44	11.45	0.4%
Primary Energy	9.16	9.20	9.30	9.34	9.31	9.28	9.32	9.41	9.50	9.53	9.64	9.66	0.7%
Electricity	19.41	19.40	19.43	19.19	19.40	19.08	19.12	19.26	19.28	19.11	19.30	19.21	0.0%
Electric Generators 11/													
Fossil Fuel Average	1.82	1.75	1.71	1.68	1.69	1.66	1.69	1.68	1.67	1.63	1.64	1.58	0.2%
Petroleum Products	6.11	6.17	6.30	6.40	6.52	6.58	6.56	6.58	6.66	6.71	6.84	6.93	0.3%
Distillate Fuel	6.13	6.17	6.30	6.40	6.52	6.59	6.57	6.58	6.66	6.71	6.84	6.93	0.3%
Residual Fuel	4.57	3.67	4.63	3.72	3.75	4.72	4.75	3.84	3.87	3.90	3.93	3.97	-0.6%
Natural Gas	4.95	5.04	5.16	5.26	5.15	4.98	5.14	5.35	5.45	5.45	5.51	5.42	1.5%
Steam Coal	1.16	1.17	1.17	1.21	1.18	1.17	1.21	1.22	1.23	1.24	1.25	1.25	0.6%

Table 18. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	10.54	10.53	10.61	10.63	10.64	10.67	10.66	10.69	10.78	10.80	10.94	11.00	0.5%
Distillate Fuel	9.91	9.94	9.98	10.01	10.04	10.03	9.98	10.01	10.04	10.09	10.11	10.15	0.6%
Jet Fuel	6.24	6.22	6.29	6.35	6.42	6.44	6.41	6.40	6.48	6.48	6.60	6.68	0.1%
Liquefied Petroleum Gas	8.79	8.75	8.71	8.74	8.81	8.86	8.85	8.84	8.84	8.86	8.87	8.84	-1.0%
Motor Gasoline 7/	12.68	12.67	12.75	12.72	12.69	12.72	12.74	12.77	12.88	12.90	13.12	13.18	0.6%
Residual Fuel	3.66	3.78	3.75	3.73	3.76	3.79	3.82	3.85	3.88	3.91	3.94	3.98	0.3%
Natural Gas	5.84	6.00	6.14	6.26	6.09	5.89	6.08	6.33	6.43	6.46	6.50	6.43	1.2%
Coal	1.18	1.19	1.18	1.23	1.19	1.18	1.22	1.23	1.25	1.25	1.26	1.26	0.6%
Ethanol (E85) 10/	18.16	18.23	18.33	18.37	18.40	18.43	18.50	18.63	18.73	18.79	18.90	18.96	1.0%
Electricity	19.41	19.40	19.43	19.19	19.40	19.08	19.12	19.26	19.28	19.11	19.30	19.21	0.0%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	12.22	12.51	12.85	13.03	13.28	13.30	13.71	14.08	14.36	14.54	14.92	15.03	2.2%
Commercial	10.39	10.73	11.10	11.37	11.78	11.92	12.34	12.85	13.24	13.54	14.07	14.45	3.2%
Industrial	7.22	7.35	7.56	7.67	7.87	7.86	8.05	8.26	8.46	8.56	8.81	8.94	1.9%
Transportation	30.26	31.06	32.03	32.83	33.65	34.52	35.35	36.31	37.50	38.56	40.04	41.31	3.6%
Total Non-Renewable Expenditures	60.09	61.65	63.53	64.90	66.58	67.60	69.45	71.51	73.56	75.20	77.83	79.72	3.0%
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	9.9%
Total Expenditures	60.10	61.65	63.54	64.91	66.59	67.60	69.46	71.51	73.56	75.21	77.84	79.73	3.0%

Table 18. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
Mountain

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 19. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	17.67	16.24	16.33	15.95	15.69	15.55	15.39	15.31	15.18	14.97	14.78	14.56	14.36
Primary Energy 1/	10.29	7.86	8.97	8.81	8.46	8.39	8.27	8.20	7.98	7.88	7.99	8.01	8.16
Petroleum Products 2/	13.52	12.92	15.92	14.96	12.13	12.31	12.39	12.56	12.63	12.76	13.05	13.04	13.31
Distillate Fuel	9.54	8.42	9.30	8.49	8.21	8.34	8.34	8.34	8.34	8.34	8.35	8.38	8.44
Liquefied Petroleum Gas	17.00	15.33	19.54	19.14	15.01	15.13	15.17	15.37	15.43	15.58	15.97	15.90	16.21
Natural Gas	9.99	7.43	8.40	8.29	8.15	8.05	7.91	7.82	7.58	7.46	7.57	7.59	7.73
Electricity	29.74	30.64	28.52	28.56	28.55	28.46	28.34	28.36	28.54	28.25	27.53	26.85	25.92
Commercial	20.82	20.94	20.98	20.22	19.97	19.90	19.78	19.76	19.72	19.50	19.15	18.54	17.34
Primary Energy 1/	8.61	6.34	7.72	7.30	7.14	7.08	7.01	6.98	6.83	6.76	6.86	6.89	7.03
Petroleum Products 2/	8.64	7.89	8.75	8.03	7.52	7.51	7.50	7.51	7.54	7.55	7.58	7.56	7.62
Distillate Fuel	6.62	6.22	6.88	6.28	5.76	5.89	5.89	5.89	5.88	5.89	5.90	5.92	5.99
Residual Fuel	3.94	4.02	4.75	3.95	3.68	3.71	3.73	3.76	3.78	3.81	3.84	3.86	3.89
Natural Gas	8.75	6.29	7.73	7.33	7.22	7.15	7.07	7.03	6.85	6.77	6.87	6.91	7.06
Electricity	31.22	33.35	31.88	30.88	30.34	30.17	29.95	29.88	29.90	29.53	28.73	27.46	25.02
Industrial 3/	8.64	8.37	8.10	7.35	7.11	7.09	7.12	7.21	7.25	7.21	7.24	7.16	7.00
Primary Energy	5.82	4.93	6.02	5.12	4.80	4.78	4.81	4.90	4.89	4.91	5.00	5.06	5.19
Petroleum Products 2/	6.52	5.97	6.95	6.21	5.41	5.37	5.43	5.57	5.63	5.66	5.74	5.81	5.91
Distillate Fuel	6.92	6.59	7.29	6.65	6.14	6.28	6.27	6.27	6.27	6.27	6.28	6.31	6.37
Liquefied Petroleum Gas	13.87	11.77	15.01	14.69	11.59	11.71	11.75	11.95	12.01	12.16	12.54	12.47	12.79
Residual Fuel	3.69	3.95	4.66	3.88	3.68	3.71	3.73	3.76	3.78	3.81	3.84	3.86	3.89
Natural Gas 4/	5.55	4.30	5.55	4.49	4.43	4.43	4.43	4.48	4.40	4.40	4.51	4.56	4.72
Metallurgical 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
Steam Coal	1.65	1.64	1.73	1.71	1.68	1.67	1.66	1.67	1.67	1.67	1.67	1.68	1.70
Electricity	22.33	24.19	17.81	17.74	17.71	17.67	17.68	17.76	17.99	17.72	17.39	16.66	15.16
Transportation	10.86	9.97	11.20	10.24	10.49	10.56	10.58	10.64	10.92	10.91	10.92	10.88	10.87
Primary Energy	10.81	9.92	11.16	10.20	10.45	10.52	10.54	10.60	10.88	10.88	10.88	10.85	10.83
Petroleum Products 2/	10.81	9.92	11.16	10.21	10.45	10.53	10.55	10.61	10.88	10.88	10.89	10.85	10.84
Distillate Fuel 5/	11.00	10.24	11.33	10.33	10.30	10.31	10.46	10.44	10.47	10.70	10.94	10.91	10.92
Jet Fuel 6/	6.45	6.25	7.03	6.62	6.03	6.05	6.07	6.10	6.12	6.10	6.09	6.08	6.08
Motor Gasoline 7/	13.35	11.84	13.31	12.12	12.76	12.87	12.86	12.94	13.40	13.35	13.29	13.23	13.19
Residual Fuel	3.37	3.94	4.65	3.87	3.61	3.64	3.66	3.69	3.71	3.73	3.76	3.78	3.81
Liquefied Petroleum Gas8/	17.16	14.84	16.06	16.06	13.80	13.88	13.90	14.07	14.09	14.20	14.56	14.45	14.73
Natural Gas 9/	7.29	5.15	6.89	5.83	5.82	6.06	6.27	6.49	6.53	6.65	6.88	7.02	7.27
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.56	16.67	16.88	16.98	17.25	17.32	17.54	17.77	17.89
Electricity	26.62	27.68	24.90	24.69	24.41	24.25	24.10	24.09	24.22	23.90	23.67	23.40	23.27
Average End-Use Energy	12.36	11.62	12.18	11.39	11.37	11.38	11.38	11.43	11.57	11.51	11.47	11.34	11.14
Primary Energy	9.35	8.23	9.44	8.63	8.65	8.69	8.70	8.76	8.90	8.89	8.94	8.95	9.00
Electricity	28.23	29.74	26.71	26.31	26.04	25.95	25.85	25.87	26.02	25.72	25.11	24.20	22.52
Electric Generators 11/													
Fossil Fuel Average	7.30	3.72	5.19	4.40	4.41	4.41	4.41	4.47	4.41	4.36	4.46	4.50	4.65
Petroleum Products	5.45	4.80	5.62	4.73	4.93	4.97	4.99	5.02	5.06	5.08	5.12	5.15	5.18
Distillate Fuel	6.45	5.92	6.55	5.98	5.40	5.53	5.53	5.53	5.53	5.53	5.54	5.57	5.63
Residual Fuel	4.56	4.66	5.47	4.58	4.86	4.89	4.91	4.94	4.98	5.02	5.05	5.08	5.11
Natural Gas	8.38	4.06	6.11	5.00	4.94	4.93	4.93	4.99	4.91	4.87	4.98	5.04	5.22
Steam Coal	1.54	1.51	1.47	1.46	1.47	1.47	1.46	1.46	1.46	1.46	1.45	1.44	1.44

Table 19. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	10.13	9.32	10.54	9.66	9.65	9.70	9.74	9.82	10.07	10.08	10.10	10.09	10.10
Distillate Fuel	9.97	9.50	10.49	9.61	9.49	9.53	9.67	9.66	9.69	9.90	10.10	10.09	10.11
Jet Fuel	6.45	6.25	7.03	6.62	6.03	6.05	6.07	6.10	6.12	6.10	6.09	6.08	6.08
Liquefied Petroleum Gas	15.59	13.78	17.39	17.09	13.32	13.44	13.47	13.65	13.70	13.82	14.18	14.08	14.36
Motor Gasoline 7/	13.35	11.84	13.31	12.12	12.76	12.87	12.86	12.94	13.40	13.35	13.29	13.23	13.19
Residual Fuel	3.60	4.15	4.87	4.05	3.96	3.99	4.02	4.05	4.07	4.09	4.13	4.16	4.19
Natural Gas	7.94	5.25	6.72	5.96	5.90	5.86	5.82	5.82	5.69	5.67	5.78	5.83	5.98
Coal	1.58	1.56	1.55	1.54	1.54	1.53	1.52	1.52	1.52	1.52	1.52	1.52	1.52
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.56	16.67	16.88	16.98	17.25	17.32	17.54	17.77	17.89
Electricity	28.23	29.74	26.71	26.31	26.04	25.95	25.85	25.87	26.02	25.72	25.11	24.20	22.52
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	21.00	19.06	19.07	19.65	19.55	19.68	19.78	20.03	20.14	20.19	20.26	20.31	20.25
Commercial	20.14	19.42	19.71	19.42	19.71	20.19	20.59	21.07	21.56	21.89	22.06	21.99	21.23
Industrial	15.41	15.17	14.03	13.07	13.05	13.23	13.46	13.79	13.99	14.14	14.39	14.42	14.24
Transportation	45.55	41.78	47.67	45.11	47.56	49.10	50.28	51.66	54.03	55.18	56.32	57.31	58.42
Total Non-Renewable Expenditures	102.09	95.44	100.48	97.24	99.87	102.21	104.10	106.55	109.72	111.40	113.03	114.02	114.14
Transportation Renewable Expenditures	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
Total Expenditures	102.09	95.44	100.48	97.25	99.87	102.21	104.10	106.55	109.73	111.41	113.03	114.03	114.15



Table 19. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	14.42	14.46	14.54	14.57	14.48	14.30	14.31	14.45	14.53	14.51	14.55	14.47	-0.5%
Primary Energy 1/	8.23	8.28	8.37	8.41	8.30	8.20	8.26	8.46	8.54	8.53	8.55	8.46	0.3%
Petroleum Products 2/	13.51	13.87	14.52	14.63	13.96	13.88	14.44	14.97	15.38	15.60	15.67	15.95	0.9%
Distillate Fuel	8.47	8.53	8.55	8.60	8.61	8.73	8.79	8.79	8.82	8.85	8.87	8.93	0.3%
Liquefied Petroleum Gas	16.42	16.87	17.74	17.80	16.74	16.45	17.13	17.80	18.27	18.46	18.45	18.71	0.9%
Natural Gas	7.79	7.82	7.87	7.90	7.84	7.74	7.76	7.94	8.00	7.98	8.00	7.89	0.3%
Electricity	25.94	25.98	26.07	26.12	26.10	25.81	25.75	25.81	25.88	25.85	25.94	25.94	-0.7%
Commercial	17.46	17.54	17.65	17.71	17.69	17.51	17.51	17.63	17.71	17.69	17.76	17.71	-0.7%
Primary Energy 1/	7.11	7.14	7.20	7.24	7.20	7.12	7.15	7.31	7.37	7.37	7.39	7.31	0.6%
Petroleum Products 2/	7.64	7.70	7.79	7.82	7.71	7.75	7.85	7.90	7.97	8.00	8.02	8.08	0.1%
Distillate Fuel	6.02	6.07	6.10	6.15	6.16	6.27	6.34	6.33	6.36	6.39	6.41	6.47	0.2%
Residual Fuel	3.91	3.94	3.97	4.00	4.02	4.05	4.08	4.11	4.14	4.17	4.20	4.23	0.2%
Natural Gas	7.15	7.18	7.24	7.28	7.24	7.14	7.16	7.34	7.40	7.39	7.41	7.31	0.7%
Electricity	25.01	25.01	25.08	25.08	25.02	24.72	24.65	24.68	24.70	24.63	24.68	24.62	-1.3%
Industrial 3/	7.07	7.14	7.20	7.23	7.23	7.20	7.35	7.52	7.64	7.70	7.76	7.78	-0.3%
Primary Energy	5.26	5.35	5.43	5.48	5.46	5.47	5.66	5.85	6.00	6.08	6.13	6.15	1.0%
Petroleum Products 2/	5.97	6.12	6.20	6.25	6.24	6.34	6.71	6.96	7.19	7.37	7.45	7.61	1.1%
Distillate Fuel	6.40	6.46	6.48	6.53	6.54	6.66	6.73	6.72	6.75	6.78	6.80	6.86	0.2%
Liquefied Petroleum Gas	13.00	13.44	14.32	14.38	13.31	13.03	13.71	14.38	14.84	15.04	15.02	15.29	1.1%
Residual Fuel	3.91	3.94	3.97	4.00	4.02	4.05	4.08	4.11	4.14	4.17	4.20	4.23	0.3%
Natural Gas 4/	4.82	4.86	4.93	4.99	4.97	4.90	4.92	5.10	5.17	5.17	5.21	5.12	0.8%
Metallurgical 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	N/A
Steam Coal	1.71	1.73	1.72	1.82	1.73	1.70	1.80	1.81	1.83	1.82	1.82	1.81	0.4%
Electricity	15.15	15.11	15.10	15.00	15.02	14.85	14.79	14.78	14.78	14.66	14.73	14.68	-2.1%
Transportation	10.84	10.83	10.86	10.85	10.82	10.82	10.81	10.85	10.92	10.95	11.07	11.09	0.5%
Primary Energy	10.81	10.80	10.82	10.81	10.79	10.79	10.77	10.81	10.89	10.91	11.03	11.06	0.5%
Petroleum Products 2/	10.81	10.80	10.83	10.82	10.79	10.79	10.78	10.82	10.90	10.92	11.04	11.06	0.5%
Distillate Fuel 5/	10.91	10.88	10.84	10.82	10.84	10.72	10.66	10.68	10.62	10.64	10.62	10.54	0.1%
Jet Fuel 6/	6.08	6.08	6.08	6.09	6.09	6.11	6.12	6.13	6.14	6.15	6.17	6.19	0.0%
Motor Gasoline 7/	13.15	13.13	13.16	13.14	13.09	13.11	13.08	13.12	13.25	13.26	13.44	13.47	0.6%
Residual Fuel	3.84	3.87	3.89	3.92	3.95	3.98	4.01	4.04	4.07	4.10	4.13	4.16	0.2%
Liquefied Petroleum Gas8/	14.91	15.31	16.15	16.18	15.08	14.76	15.40	16.04	16.47	16.63	16.59	16.82	0.5%
Natural Gas 9/	7.41	7.51	7.63	7.71	7.70	7.61	7.65	7.84	7.93	7.93	7.97	7.86	1.9%
Ethanol (E85) 10/	17.99	18.08	18.17	18.25	18.27	18.29	18.36	18.47	18.56	18.62	18.70	18.75	0.9%
Electricity	23.20	23.13	23.13	23.03	22.89	22.53	22.38	22.32	22.27	22.12	22.10	21.98	-1.0%
Average End-Use Energy	11.18	11.22	11.28	11.29	11.27	11.23	11.27	11.37	11.46	11.49	11.58	11.59	0.0%
Primary Energy	9.02	9.05	9.09	9.11	9.07	9.06	9.10	9.21	9.30	9.33	9.42	9.43	0.6%
Electricity	22.54	22.55	22.62	22.60	22.57	22.32	22.27	22.30	22.32	22.25	22.31	22.26	-1.3%
Electric Generators 11/													
Fossil Fuel Average	4.72	4.74	4.73	4.74	4.74	4.70	4.47	4.37	4.19	3.89	3.86	3.69	0.0%
Petroleum Products	5.21	5.27	5.29	5.35	5.35	5.41	5.44	5.46	5.51	5.55	5.57	5.60	0.7%
Distillate Fuel	5.66	5.72	5.74	5.79	5.80	5.92	5.98	5.98	6.01	6.04	6.06	6.11	0.1%
Residual Fuel	5.12	5.17	5.21	5.27	5.27	5.33	5.35	5.36	5.41	5.45	5.47	5.51	0.7%
Natural Gas	5.32	5.36	5.41	5.45	5.43	5.36	5.36	5.54	5.61	5.58	5.62	5.52	1.3%
Steam Coal	1.44	1.43	1.43	1.42	1.41	1.40	1.37	1.42	1.44	1.46	1.46	1.47	-0.1%

Table 19. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	10.09	10.11	10.15	10.16	10.13	10.15	10.20	10.27	10.37	10.42	10.53	10.58	0.6%
Distillate Fuel	10.09	10.07	10.07	10.07	10.09	10.02	9.99	9.99	9.95	9.98	9.96	9.92	0.2%
Jet Fuel	6.08	6.08	6.08	6.09	6.09	6.11	6.12	6.13	6.14	6.15	6.17	6.19	0.0%
Liquefied Petroleum Gas	14.55	14.97	15.84	15.89	14.73	14.40	15.04	15.66	16.07	16.22	16.19	16.43	0.8%
Motor Gasoline 7/	13.15	13.13	13.16	13.14	13.09	13.11	13.08	13.12	13.25	13.26	13.44	13.47	0.6%
Residual Fuel	4.22	4.26	4.29	4.33	4.36	4.40	4.43	4.46	4.50	4.53	4.57	4.60	0.5%
Natural Gas	6.08	6.12	6.20	6.26	6.22	6.14	6.16	6.34	6.41	6.41	6.44	6.34	0.8%
Coal	1.52	1.52	1.52	1.54	1.51	1.49	1.47	1.49	1.50	1.51	1.50	1.50	-0.2%
Ethanol (E85) 10/	17.99	18.08	18.17	18.25	18.27	18.29	18.36	18.47	18.56	18.62	18.70	18.75	0.9%
Electricity	22.54	22.55	22.62	22.60	22.57	22.32	22.27	22.30	22.32	22.25	22.31	22.26	-1.3%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	20.60	20.92	21.34	21.58	21.72	21.76	22.13	22.54	22.89	23.11	23.50	23.61	0.9%
Commercial	22.00	22.69	23.39	24.05	24.62	25.01	25.64	26.44	27.18	27.82	28.61	29.27	1.8%
Industrial	14.60	14.92	15.27	15.61	15.92	16.02	16.50	17.06	17.58	17.96	18.43	18.77	0.9%
Transportation	59.36	60.26	61.31	62.22	63.08	64.02	64.87	66.05	67.50	68.68	70.47	71.76	2.4%
Total Non-Renewable Expenditures	116.56	118.79	121.32	123.46	125.34	126.82	129.15	132.09	135.15	137.57	141.00	143.40	1.8%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.8%
Total Expenditures	116.57	118.79	121.33	123.47	125.35	126.83	129.16	132.10	135.16	137.58	141.01	143.42	1.8%

Table 19. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
Pacific

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 20. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential	15.95	14.73	15.60	15.20	14.76	14.55	14.39	14.36	14.30	14.21	14.30	14.50	14.65
Primary Energy 1/	9.85	8.14	9.58	9.26	8.71	8.54	8.46	8.43	8.26	8.15	8.27	8.39	8.53
Petroleum Products 2/	10.95	9.87	11.53	10.83	9.81	9.80	9.81	9.86	9.92	9.90	10.00	10.06	10.18
Distillate Fuel	9.09	8.23	9.11	8.31	8.02	7.93	7.86	7.89	7.88	7.82	7.84	7.88	7.96
Liquefied Petroleum Gas	15.05	12.92	16.49	16.15	13.59	13.66	13.73	13.77	13.88	13.89	14.07	14.12	14.23
Natural Gas	9.53	7.65	9.03	8.82	8.39	8.19	8.08	8.03	7.80	7.67	7.80	7.94	8.10
Electricity	25.51	24.73	24.87	24.44	24.13	23.81	23.48	23.37	23.41	23.30	23.26	23.48	23.55
Commercial	15.67	14.68	15.01	14.56	14.14	13.86	13.68	13.72	13.80	13.77	13.88	14.13	14.21
Primary Energy 1/	8.07	6.35	7.84	7.32	6.89	6.74	6.69	6.70	6.55	6.48	6.59	6.72	6.86
Petroleum Products 2/	7.25	6.88	7.62	7.01	6.45	6.35	6.34	6.36	6.37	6.34	6.38	6.40	6.45
Distillate Fuel	6.38	6.07	6.71	6.12	5.62	5.53	5.49	5.50	5.49	5.45	5.49	5.52	5.57
Residual Fuel	3.51	4.21	4.97	4.13	4.00	4.02	4.05	4.08	4.11	4.13	4.16	4.19	4.22
Natural Gas	8.44	6.37	8.08	7.57	7.17	6.99	6.93	6.93	6.74	6.64	6.78	6.93	7.10
Electricity	23.43	22.82	22.28	21.57	21.07	20.63	20.24	20.23	20.44	20.39	20.43	20.69	20.61
Industrial 3/	7.24	6.31	7.29	6.70	6.39	6.36	6.39	6.48	6.48	6.44	6.51	6.63	6.73
Primary Energy	5.87	4.77	6.09	5.42	5.09	5.08	5.12	5.20	5.17	5.14	5.23	5.33	5.45
Petroleum Products 2/	7.73	6.35	7.50	7.09	6.65	6.66	6.71	6.77	6.83	6.84	6.92	6.96	7.02
Distillate Fuel	6.62	6.21	6.87	6.27	5.79	5.69	5.68	5.68	5.68	5.68	5.72	5.75	5.78
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	9.27	9.42	9.49	9.61	9.72	9.72	9.90	9.97	10.07
Residual Fuel	3.31	3.89	4.60	3.82	3.61	3.63	3.66	3.69	3.72	3.74	3.78	3.80	3.83
Natural Gas 4/	4.91	3.75	5.60	4.50	4.17	4.09	4.13	4.24	4.11	4.05	4.19	4.37	4.55
Metallurgical Coal	1.71	1.87	2.03	2.02	1.99	1.98	1.96	1.97	1.96	1.96	1.94	1.92	1.91
Steam Coal	1.51	1.52	1.63	1.61	1.59	1.58	1.58	1.59	1.58	1.58	1.58	1.56	1.56
Electricity	15.11	14.74	13.96	13.67	13.52	13.37	13.26	13.37	13.49	13.36	13.30	13.49	13.47
Transportation	10.58	9.91	11.12	10.17	10.28	10.36	10.43	10.46	10.49	10.50	10.55	10.52	10.51
Primary Energy	10.55	9.88	11.09	10.14	10.25	10.33	10.41	10.44	10.47	10.48	10.52	10.50	10.48
Petroleum Products 2/	10.55	9.88	11.09	10.14	10.25	10.34	10.41	10.44	10.47	10.48	10.52	10.50	10.49
Distillate Fuel 5/	10.16	9.41	10.41	9.50	9.62	9.91	10.13	10.15	10.08	10.12	10.22	10.21	10.12
Jet Fuel 6/	6.27	5.97	6.72	6.33	6.02	5.78	5.72	5.74	5.75	5.76	5.83	5.84	5.85
Motor Gasoline 7/	11.99	11.15	12.54	11.42	11.63	11.71	11.77	11.81	11.87	11.87	11.89	11.86	11.86
Residual Fuel	3.94	3.77	4.45	3.70	3.48	3.50	3.53	3.55	3.58	3.60	3.63	3.65	3.68
Liquefied Petroleum Gas8/	17.12	15.00	16.47	16.46	14.79	14.84	14.88	14.92	14.98	14.96	15.11	15.12	15.21
Natural Gas 9/	8.69	7.38	9.43	8.25	7.94	7.97	8.11	8.28	8.23	8.26	8.44	8.63	8.83
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.78	16.88	17.09	17.15	17.18	17.22	17.40	17.57	17.66
Electricity	21.58	21.10	21.35	20.74	20.22	19.77	19.45	19.46	19.61	19.57	19.63	19.91	20.05
Average End-Use Energy	10.95	10.10	11.10	10.42	10.22	10.18	10.18	10.23	10.25	10.23	10.30	10.39	10.44
Primary Energy	8.69	7.70	9.01	8.28	8.13	8.14	8.19	8.24	8.23	8.22	8.30	8.35	8.41
Electricity	21.79	21.20	20.90	20.40	20.04	19.72	19.43	19.43	19.56	19.47	19.45	19.68	19.66
Electric Generators 11/													
Fossil Fuel Average	2.27	1.89	2.22	2.01	1.93	1.91	1.91	1.96	1.92	1.92	1.97	2.03	2.09
Petroleum Products	5.00	4.32	4.91	4.50	4.22	4.23	4.24	4.25	4.23	4.21	4.27	4.35	4.40
Distillate Fuel	6.24	5.58	6.17	5.62	5.10	4.98	4.97	4.95	4.90	4.92	4.94	4.95	4.99
Residual Fuel	4.55	4.04	4.65	4.00	3.88	3.92	3.94	3.95	3.97	3.99	4.02	4.04	4.07
Natural Gas	5.30	3.77	5.62	4.50	4.18	4.10	4.14	4.23	4.11	4.04	4.19	4.36	4.54
Steam Coal	1.25	1.26	1.24	1.23	1.23	1.23	1.22	1.23	1.23	1.22	1.22	1.22	1.22

Table 20. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price to All Users 12/													
Petroleum Products 2/	9.74	8.94	10.11	9.40	9.31	9.38	9.45	9.49	9.55	9.57	9.62	9.61	9.61
Distillate Fuel	9.14	8.52	9.38	8.60	8.55	8.72	8.87	8.89	8.88	8.93	9.01	8.99	8.94
Jet Fuel	6.27	5.97	6.72	6.33	6.02	5.78	5.72	5.74	5.75	5.76	5.83	5.84	5.85
Liquefied Petroleum Gas	13.00	9.27	11.82	11.57	10.21	10.35	10.43	10.53	10.65	10.65	10.82	10.89	10.99
Motor Gasoline 7/	11.99	11.15	12.53	11.42	11.63	11.71	11.77	11.81	11.87	11.87	11.89	11.86	11.86
Residual Fuel	4.16	3.92	4.58	3.83	3.66	3.68	3.71	3.74	3.76	3.78	3.81	3.84	3.87
Natural Gas	6.63	5.07	6.85	5.99	5.62	5.50	5.49	5.52	5.36	5.27	5.39	5.54	5.71
Coal	1.27	1.28	1.27	1.26	1.26	1.25	1.25	1.25	1.25	1.25	1.25	1.24	1.24
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.78	16.88	17.09	17.15	17.18	17.22	17.40	17.57	17.66
Electricity	21.79	21.20	20.90	20.40	20.04	19.72	19.43	19.43	19.56	19.47	19.45	19.68	19.66
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	168.08	160.37	173.30	172.66	169.12	168.98	169.20	171.18	171.95	173.01	175.79	180.11	182.80
Commercial	129.31	119.67	125.15	122.63	122.33	123.09	124.15	126.96	130.23	132.72	136.34	140.98	143.94
Industrial	138.60	120.96	137.78	128.52	125.41	126.16	128.14	131.12	131.82	132.71	136.16	140.46	144.56
Transportation	275.57	259.11	294.76	278.63	290.33	300.06	308.56	316.07	323.50	330.65	338.69	344.88	351.43
Total Non-Renewable Expenditures	711.55	660.11	730.99	702.44	707.19	718.29	730.04	745.34	757.51	769.08	786.98	806.42	822.72
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04
Total Expenditures	711.56	660.12	731.00	702.45	707.21	718.31	730.07	745.36	757.54	769.11	787.02	806.46	822.76

Table 20. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential	14.78	14.93	15.02	15.01	15.05	14.99	15.08	15.25	15.27	15.25	15.35	15.38	0.2%
Primary Energy 1/	8.61	8.72	8.76	8.77	8.74	8.69	8.76	8.91	8.91	8.91	8.91	8.89	0.4%
Petroleum Products 2/	10.25	10.38	10.51	10.59	10.67	10.75	10.86	10.95	11.03	11.11	11.17	11.26	0.6%
Distillate Fuel	8.00	8.06	8.13	8.17	8.28	8.33	8.39	8.43	8.45	8.47	8.50	8.53	0.2%
Liquefied Petroleum Gas	14.29	14.46	14.63	14.68	14.65	14.69	14.79	14.90	14.99	15.06	15.11	15.19	0.7%
Natural Gas	8.18	8.29	8.30	8.30	8.25	8.17	8.24	8.40	8.39	8.37	8.36	8.32	0.4%
Electricity	23.66	23.77	23.85	23.74	23.81	23.67	23.73	23.85	23.82	23.70	23.86	23.88	-0.2%
Commercial	14.41	14.62	14.76	14.78	14.86	14.83	14.93	15.10	15.12	15.09	15.23	15.28	0.2%
Primary Energy 1/	6.94	7.04	7.07	7.09	7.08	7.04	7.11	7.24	7.24	7.23	7.23	7.22	0.6%
Petroleum Products 2/	6.48	6.53	6.60	6.66	6.74	6.78	6.83	6.86	6.89	6.90	6.93	6.98	0.1%
Distillate Fuel	5.59	5.66	5.73	5.80	5.90	5.96	6.01	6.04	6.06	6.07	6.10	6.15	0.1%
Residual Fuel	4.25	4.27	4.30	4.33	4.36	4.39	4.41	4.44	4.47	4.49	4.52	4.55	0.3%
Natural Gas	7.20	7.32	7.34	7.34	7.30	7.24	7.31	7.47	7.46	7.45	7.44	7.41	0.7%
Electricity	20.82	21.02	21.19	21.15	21.24	21.14	21.21	21.36	21.34	21.22	21.42	21.48	-0.3%
Industrial 3/	6.82	6.96	7.04	7.08	7.12	7.12	7.21	7.32	7.33	7.32	7.37	7.42	0.7%
Primary Energy	5.51	5.64	5.70	5.75	5.77	5.79	5.88	5.99	6.00	6.01	6.03	6.07	1.1%
Petroleum Products 2/	7.04	7.15	7.24	7.33	7.40	7.46	7.54	7.60	7.64	7.68	7.72	7.81	0.9%
Distillate Fuel	5.79	5.85	5.93	6.03	6.14	6.19	6.24	6.27	6.29	6.30	6.34	6.40	0.1%
Liquefied Petroleum Gas	10.12	10.29	10.41	10.47	10.51	10.58	10.66	10.74	10.82	10.89	10.95	11.11	1.3%
Residual Fuel	3.86	3.88	3.92	3.95	3.98	4.00	4.03	4.06	4.09	4.11	4.14	4.17	0.3%
Natural Gas 4/	4.65	4.81	4.84	4.84	4.81	4.78	4.89	5.05	5.02	5.01	5.00	4.99	1.3%
Metallurgical Coal	1.91	1.90	1.89	1.88	1.88	1.87	1.84	1.82	1.80	1.78	1.77	1.77	-0.2%
Steam Coal	1.55	1.55	1.55	1.55	1.54	1.52	1.53	1.54	1.54	1.54	1.53	1.53	0.0%
Electricity	13.63	13.81	13.96	13.93	14.01	13.93	13.99	14.07	14.03	13.92	14.08	14.09	-0.2%
Transportation	10.51	10.53	10.55	10.55	10.56	10.55	10.54	10.57	10.60	10.62	10.66	10.69	0.3%
Primary Energy	10.49	10.50	10.52	10.53	10.53	10.53	10.52	10.54	10.57	10.60	10.64	10.67	0.3%
Petroleum Products 2/	10.49	10.50	10.53	10.53	10.53	10.53	10.52	10.54	10.57	10.60	10.64	10.67	0.3%
Distillate Fuel 5/	10.16	10.16	10.15	10.14	10.12	10.06	10.00	10.01	10.01	10.05	10.02	10.03	0.3%
Jet Fuel 6/	5.83	5.85	5.90	5.96	6.03	6.04	6.06	6.08	6.10	6.12	6.15	6.21	0.2%
Motor Gasoline 7/	11.86	11.87	11.90	11.89	11.89	11.90	11.90	11.92	11.96	11.97	12.03	12.06	0.3%
Residual Fuel	3.71	3.73	3.76	3.79	3.82	3.85	3.88	3.90	3.93	3.96	3.99	4.02	0.3%
Liquefied Petroleum Gas8/	15.23	15.39	15.58	15.59	15.43	15.39	15.51	15.62	15.71	15.75	15.76	15.83	0.2%
Natural Gas 9/	8.94	9.07	9.11	9.13	9.08	9.00	9.06	9.20	9.18	9.15	9.13	9.09	0.9%
Ethanol (E85) 10/	17.73	17.79	17.85	17.89	18.47	18.50	18.28	18.37	18.43	18.48	18.53	18.58	0.9%
Electricity	20.16	20.25	20.32	20.22	20.20	20.03	20.03	20.09	20.01	19.86	19.96	19.92	-0.2%
Average End-Use Energy	10.51	10.61	10.68	10.69	10.71	10.70	10.76	10.84	10.86	10.86	10.92	10.96	0.4%
Primary Energy	8.46	8.53	8.57	8.60	8.60	8.60	8.64	8.72	8.74	8.76	8.79	8.82	0.6%
Electricity	19.82	19.99	20.12	20.05	20.13	20.03	20.10	20.21	20.18	20.06	20.23	20.26	-0.2%
Electric Generators 11/													
Fossil Fuel Average	2.12	2.16	2.18	2.19	2.19	2.16	2.18	2.19	2.16	2.13	2.13	2.11	0.5%
Petroleum Products	4.45	4.54	4.55	4.59	4.62	4.65	4.67	4.74	4.76	4.76	4.82	4.88	0.5%
Distillate Fuel	5.01	5.09	5.15	5.25	5.36	5.41	5.47	5.51	5.54	5.56	5.58	5.62	0.0%
Residual Fuel	4.10	4.14	4.16	4.20	4.23	4.27	4.31	4.34	4.38	4.42	4.45	4.50	0.5%
Natural Gas	4.64	4.78	4.82	4.82	4.79	4.75	4.85	5.00	4.96	4.94	4.93	4.92	1.2%
Steam Coal	1.22	1.22	1.21	1.21	1.20	1.19	1.20	1.20	1.21	1.22	1.22	1.22	-0.1%

Table 20. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Average Price to All Users 12/													
Petroleum Products 2/	9.62	9.65	9.70	9.73	9.76	9.79	9.81	9.84	9.88	9.92	9.96	10.01	0.5%
Distillate Fuel	8.96	8.97	9.01	9.04	9.09	9.09	9.07	9.08	9.11	9.16	9.15	9.18	0.3%
Jet Fuel	5.83	5.85	5.90	5.96	6.03	6.04	6.06	6.08	6.10	6.12	6.15	6.21	0.2%
Liquefied Petroleum Gas	11.04	11.21	11.33	11.39	11.41	11.47	11.55	11.63	11.71	11.77	11.83	11.96	1.1%
Motor Gasoline 7/	11.86	11.87	11.90	11.89	11.89	11.90	11.90	11.92	11.96	11.97	12.03	12.06	0.3%
Residual Fuel	3.90	3.93	3.96	3.99	4.02	4.05	4.08	4.11	4.14	4.17	4.20	4.23	0.3%
Natural Gas	5.80	5.93	5.94	5.94	5.89	5.84	5.93	6.10	6.07	6.06	6.05	6.03	0.8%
Coal	1.24	1.24	1.23	1.23	1.22	1.21	1.22	1.22	1.23	1.23	1.23	1.24	-0.1%
Ethanol (E85) 10/	17.73	17.79	17.85	17.89	18.47	18.50	18.28	18.37	18.43	18.48	18.53	18.58	0.9%
Electricity	19.82	19.99	20.12	20.05	20.13	20.03	20.10	20.21	20.18	20.06	20.23	20.26	-0.2%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)													
Residential	185.78	189.01	191.99	193.03	195.28	196.46	199.98	203.08	204.89	206.40	210.05	211.69	1.2%
Commercial	148.04	152.16	155.75	158.35	161.80	164.12	167.90	172.27	174.81	176.89	181.19	184.74	1.9%
Industrial	147.88	152.53	156.26	159.42	162.75	164.72	169.02	173.20	175.61	178.09	181.79	185.61	1.9%
Transportation	357.70	363.66	370.04	375.84	381.63	387.07	392.36	398.96	406.33	413.84	422.28	430.99	2.2%
Total Non-Renewable Expenditures	839.40	857.37	874.04	886.65	901.46	912.36	929.26	947.52	961.64	975.22	995.32	1013.03	1.9%
Transportation Renewable Expenditures	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	8.6%
Total Expenditures	839.45	857.41	874.09	886.70	901.51	912.42	929.32	947.58	961.70	975.28	995.39	1013.10	1.9%

Table 20. Energy Prices by Sector and Source  
(2002 Dollars per Million Btu, Unless Otherwise Noted)  
United States

- 1/ Weighted average price includes fuels below as well as coal.
- 2/ This quantity is the weighted average for all petroleum products, not just those listed below.
- 3/ Includes combined heat and power, which produces electricity and other useful thermal energy.
- 4/ Excludes use for lease and plant fuel.
- 5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
- 6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
- 7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 8/ Includes Federal and State taxes while excluding county and local taxes.
- 9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
- 10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
- 11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 12/ 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.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/current/pdf/pmaall.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 21. Residential Sector Equipment Stock and Efficiency

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Equipment Stock (million units)													
Main Space Heaters													
Electric Heat Pumps	10.38	10.71	11.03	11.32	11.60	11.83	12.09	12.35	12.60	12.86	13.13	13.39	13.64
Electric Other	21.53	21.59	21.64	21.69	21.72	21.78	21.87	21.96	22.07	22.18	22.30	22.41	22.53
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	59.99	60.71	61.44	62.11	62.81	63.56	64.34	65.12	65.90	66.68	67.46	68.22	68.97
Distillate	8.02	8.02	8.03	8.04	8.04	8.05	8.06	8.07	8.07	8.08	8.09	8.10	8.11
Liquefied Petroleum Gas	4.95	5.00	5.03	5.05	5.08	5.12	5.17	5.21	5.26	5.31	5.36	5.41	5.45
Kerosene	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.75	0.74	0.74	0.74	0.73
Wood Stoves	2.05	2.05	2.04	2.03	2.02	2.00	1.99	1.98	1.97	1.96	1.95	1.94	1.94
Geothermal Heat Pumps	0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.20	0.23	0.25	0.28
Total	107.82	108.97	110.09	111.13	112.17	113.25	114.41	115.62	116.82	118.03	119.26	120.46	121.65
Space Cooling (million units)													
Electric Heat Pumps	10.38	10.71	11.03	11.32	11.60	11.83	12.09	12.35	12.60	12.86	13.13	13.39	13.64
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	0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.20	0.23	0.25	0.28
Central Air Conditioners	47.69	48.79	50.02	51.18	52.35	53.59	54.89	56.20	57.52	58.83	60.14	61.43	62.71
Room Air Conditioners	34.99	34.85	34.71	34.58	34.44	34.32	34.20	34.08	33.97	33.86	33.76	33.65	33.55
Total	93.12	94.42	95.85	97.18	98.51	99.87	101.31	102.79	104.27	105.75	107.26	108.72	110.18
Water Heaters (million units)													
Electric	41.70	41.93	42.15	42.34	42.49	42.63	42.81	43.03	43.25	43.49	43.75	43.99	44.24
Natural Gas	59.13	60.02	60.90	61.74	62.61	63.53	64.49	65.44	66.38	67.32	68.26	69.18	70.08
Distillate	4.61	4.59	4.57	4.55	4.52	4.50	4.47	4.45	4.42	4.40	4.37	4.35	4.33
Liquefied Petroleum Gas	2.94	2.99	3.03	3.05	3.08	3.12	3.16	3.21	3.26	3.31	3.37	3.41	3.46
Solar Thermal	0.34	0.35	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.42
Total	108.73	109.88	111.00	112.04	113.07	114.15	115.32	116.52	117.72	118.93	120.16	121.35	122.54
Cooking Equipment (million units) 1/													
Electric	66.42	67.18	67.91	68.58	69.22	69.87	70.58	71.33	72.07	72.81	73.57	74.29	75.00
Natural Gas	37.96	38.31	38.67	39.03	39.41	39.81	40.23	40.65	41.07	41.50	41.94	42.38	42.82
Liquefied Petroleum Gas	4.69	4.72	4.74	4.75	4.76	4.79	4.81	4.85	4.88	4.92	4.95	4.98	5.01
Total	109.06	110.21	111.32	112.36	113.39	114.46	115.63	116.82	118.02	119.23	120.45	121.65	122.83
Clothes Dryers (million units)													
Electric	61.45	62.25	63.20	64.09	64.98	65.88	66.84	67.82	68.79	69.75	70.71	71.63	72.53
Natural Gas	16.99	17.49	17.99	18.48	18.98	19.49	20.01	20.53	21.05	21.58	22.12	22.67	23.22
Total	78.44	79.74	81.19	82.58	83.96	85.37	86.85	88.35	89.84	91.33	92.84	94.30	95.75
Other Appliances (million units)													
Refrigerators	128.11	129.36	130.57	131.70	132.82	133.98	135.24	136.54	137.83	139.13	140.46	141.76	143.04
Freezers	34.34	34.68	35.01	35.32	35.64	35.96	36.31	36.67	37.02	37.37	37.73	38.08	38.43
Stock Average Equipment Efficiency													
Main Space Heaters													
Electric Heat Pumps (HSPF)	7.16	7.21	7.25	7.29	7.31	7.38	7.44	7.49	7.53	7.57	7.61	7.64	7.67
Natural Gas Heat Pumps (GCOP)	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Geothermal Heat Pumps (COP)	3.40	3.41	3.42	3.42	3.42	3.42	3.43	3.43	3.43	3.43	3.44	3.44	3.45
Natural Gas Furnace (AFUE)	0.79	0.80	0.80	0.81	0.81	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.83
Distillate Furnace (AFUE)	0.80	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Space Cooling													

Table 21. Residential Sector Equipment Stock and Efficiency

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Heat Pumps (SEER)	10.54	10.64	10.73	10.81	10.88	11.08	11.25	11.40	11.54	11.68	11.81	11.94	12.06
Natural Gas Heat Pumps (GCOP)	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
Geothermal Heat Pumps (EER)	13.50	13.58	13.65	13.70	13.71	13.72	13.72	13.73	13.73	13.77	13.79	13.81	13.84
Cent. Air Conditioners (SEER)	10.37	10.49	10.60	10.71	10.81	11.02	11.22	11.41	11.59	11.75	11.91	12.05	12.19
Room Air Conditioners (EER)	8.99	9.11	9.19	9.27	9.34	9.39	9.45	9.50	9.56	9.62	9.67	9.71	9.74
Water Heaters													
Electric (EF)	0.87	0.87	0.88	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.90	0.90	0.90
Natural Gas (EF)	0.55	0.55	0.55	0.56	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.59	0.59
Distillate (EF)	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Liquefied Petroleum Gas (EF)	0.55	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.59
Other Appliances (kilowatthours per year) 2/													
Refrigerators	782.32	756.43	732.45	710.51	690.53	672.02	654.56	638.01	622.72	608.92	596.64	585.69	576.10
Freezers	579.89	556.63	535.31	516.01	499.56	486.41	475.66	466.46	458.70	452.16	447.00	442.98	439.71
Building Shell Efficiency Index													
Space Heating													
Pre-1998 Homes	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98
New Construction	N/A	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.80
All Homes	1.00	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.96	0.95	0.95
Space Cooling													
Pre-1998 Homes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99
New Construction	N/A	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
All Homes	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.97	0.97

Table 21. Residential Sector Equipment Stock and Efficiency

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Equipment Stock (million units)													
Main Space Heaters													
Electric Heat Pumps	13.90	14.15	14.40	14.65	14.90	15.14	15.37	15.59	15.81	16.03	16.25	16.46	1.9%
Electric Other	22.65	22.75	22.86	22.98	23.09	23.20	23.30	23.40	23.50	23.59	23.69	23.78	0.4%
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	17.0%
Natural Gas Other	69.72	70.44	71.16	71.87	72.57	73.26	74.02	74.77	75.52	76.26	76.99	77.71	1.1%
Distillate	8.12	8.13	8.14	8.15	8.15	8.16	8.16	8.16	8.16	8.16	8.16	8.16	0.1%
Liquefied Petroleum Gas	5.49	5.54	5.58	5.61	5.65	5.69	5.71	5.74	5.76	5.79	5.81	5.83	0.7%
Kerosene	0.73	0.72	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.69	0.68	0.68	-0.8%
Wood Stoves	1.93	1.92	1.91	1.90	1.89	1.88	1.87	1.85	1.84	1.83	1.82	1.81	-0.5%
Geothermal Heat Pumps	0.30	0.33	0.35	0.37	0.40	0.42	0.44	0.46	0.49	0.51	0.53	0.55	9.1%
Total	122.84	123.98	125.12	126.24	127.35	128.45	129.57	130.67	131.76	132.85	133.93	134.98	0.9%
Space Cooling (million units)													
Electric Heat Pumps	13.90	14.15	14.40	14.65	14.90	15.14	15.37	15.59	15.81	16.03	16.25	16.46	1.9%
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	17.0%
Geothermal Heat Pumps	0.30	0.33	0.35	0.37	0.40	0.42	0.44	0.46	0.49	0.51	0.53	0.55	9.1%
Central Air Conditioners	63.98	65.22	66.45	67.67	68.86	70.06	71.28	72.49	73.69	74.89	76.06	77.22	2.0%
Room Air Conditioners	33.44	33.34	33.24	33.14	33.04	32.94	32.85	32.75	32.66	32.57	32.48	32.38	-0.3%
Total	111.63	113.04	114.44	115.83	117.20	118.57	119.94	121.30	122.65	123.99	125.31	126.62	1.3%
Water Heaters (million units)													
Electric	44.48	44.72	44.95	45.19	45.43	45.67	45.87	46.07	46.28	46.49	46.69	46.89	0.5%
Natural Gas	70.98	71.86	72.72	73.58	74.41	75.25	76.14	77.02	77.89	78.76	79.61	80.45	1.3%
Distillate	4.31	4.29	4.28	4.26	4.24	4.22	4.20	4.18	4.16	4.14	4.12	4.10	-0.5%
Liquefied Petroleum Gas	3.51	3.56	3.60	3.64	3.68	3.73	3.75	3.78	3.81	3.84	3.87	3.89	1.2%
Solar Thermal	0.43	0.44	0.45	0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.49	0.50	1.6%
Total	123.72	124.86	126.00	127.12	128.22	129.33	130.43	131.53	132.63	133.72	134.78	135.84	0.9%
Cooking Equipment (million units) 1/													
Electric	75.71	76.37	77.04	77.69	78.31	78.96	79.62	80.29	80.97	81.67	82.35	83.02	0.9%
Natural Gas	43.27	43.71	44.16	44.61	45.06	45.49	45.93	46.34	46.73	47.09	47.46	47.82	1.0%
Liquefied Petroleum Gas	5.04	5.06	5.09	5.11	5.13	5.15	5.17	5.18	5.20	5.22	5.24	5.26	0.5%
Total	124.01	125.15	126.28	127.40	128.50	129.60	130.71	131.81	132.90	133.99	135.05	136.10	0.9%
Clothes Dryers (million units)													
Electric	73.41	74.27	75.12	75.97	76.81	77.65	78.50	79.35	80.21	81.06	81.89	82.69	1.2%
Natural Gas	23.77	24.31	24.84	25.35	25.85	26.34	26.81	27.27	27.72	28.16	28.61	29.05	2.2%
Total	97.18	98.58	99.96	101.32	102.66	103.99	105.31	106.63	107.93	109.22	110.49	111.74	1.5%
Other Appliances (million units)													
Refrigerators	144.32	145.56	146.79	148.01	149.21	150.41	151.61	152.81	154.00	155.18	156.35	157.49	0.9%
Freezers	38.77	39.10	39.42	39.74	40.05	40.36	40.68	40.98	41.29	41.59	41.89	42.18	0.9%
Stock Average Equipment Efficiency													
Main Space Heaters													
Electric Heat Pumps (HSPF)	7.70	7.73	7.75	7.78	7.80	7.82	7.85	7.87	7.90	7.93	7.95	7.97	0.4%
Natural Gas Heat Pumps (GCOP)	1.40	1.40	1.40	1.40	1.40	1.40	1.41	1.42	1.43	1.44	1.45	1.45	0.2%
Geothermal Heat Pumps (COP)	3.45	3.45	3.46	3.46	3.46	3.47	3.50	3.52	3.55	3.57	3.60	3.62	0.3%
Natural Gas Furnace (AFUE)	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.3%
Distillate Furnace (AFUE)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.1%
Space Cooling													

Table 21. Residential Sector Equipment Stock and Efficiency

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Heat Pumps (SEER)	12.18	12.28	12.38	12.46	12.54	12.61	12.71	12.80	12.88	12.96	13.02	13.08	0.9%
Natural Gas Heat Pumps (GCOP)	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	N/A
Geothermal Heat Pumps (EER)	13.86	13.88	13.90	13.92	13.94	13.96	14.14	14.28	14.42	14.56	14.69	14.82	0.4%
Cent. Air Conditioners (SEER)	12.31	12.43	12.53	12.62	12.70	12.77	12.86	12.93	12.99	13.05	13.09	13.13	1.0%
Room Air Conditioners (EER)	9.77	9.79	9.80	9.80	9.80	9.80	9.83	9.85	9.88	9.91	9.94	9.97	0.4%
<b>Water Heaters</b>													
Electric (EF)	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.2%
Natural Gas (EF)	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.3%
Distillate (EF)	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.0%
Liquefied Petroleum Gas (EF)	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.3%
<b>Other Appliances (kilowatthours per year) 2/</b>													
Refrigerators	567.71	560.48	554.31	549.14	544.78	541.14	537.90	535.09	532.70	530.74	529.23	528.17	-1.5%
Freezers	437.11	435.13	433.70	432.77	432.24	432.00	432.06	432.29	432.67	433.20	433.88	434.50	-1.1%
<b>Building Shell Efficiency Index</b>													
<b>Space Heating</b>													
Pre-1998 Homes	0.98	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96	-0.2%
New Construction	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%
All Homes	0.94	0.94	0.94	0.93	0.93	0.93	0.92	0.92	0.92	0.92	0.91	0.91	-0.4%
<b>Space Cooling</b>													
Pre-1998 Homes	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	-0.1%
New Construction	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.0%
All Homes	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	-0.2%

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.

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.

Btu = British thermal unit.

N/A = Not applicable.

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

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Commercial Building Delivered</b>													
<b>Energy Consumption (quadrillion Btu) 1/</b>													
Assembly	0.51	0.52	0.53	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.59	0.60	0.61
Education	0.68	0.70	0.71	0.72	0.74	0.76	0.77	0.79	0.80	0.81	0.83	0.84	0.85
Food Sales	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.24
Food Service	0.44	0.46	0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.50	0.51	0.52	0.52
Health Care	0.45	0.46	0.47	0.48	0.50	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.63
Lodging	0.45	0.47	0.47	0.48	0.49	0.50	0.52	0.53	0.54	0.55	0.57	0.58	0.59
Office - Large	0.73	0.75	0.75	0.78	0.80	0.83	0.86	0.88	0.90	0.92	0.93	0.95	0.97
Office - Small	0.41	0.43	0.44	0.45	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.56
Mercantile/Service	1.22	1.27	1.30	1.32	1.34	1.37	1.39	1.41	1.44	1.47	1.49	1.50	1.52
Warehouse	0.54	0.57	0.60	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.70	0.71
Other	0.37	0.39	0.40	0.42	0.44	0.45	0.47	0.49	0.50	0.52	0.53	0.55	0.56
Total	6.01	6.23	6.34	6.46	6.64	6.80	6.95	7.09	7.23	7.39	7.53	7.65	7.76
<b>Commercial Building Floorspace</b>													
<b>(billion square feet)</b>													
Assembly	7.95	8.04	8.14	8.24	8.33	8.43	8.51	8.60	8.68	8.77	8.86	8.94	9.02
Education	9.03	9.27	9.53	9.76	9.99	10.20	10.39	10.58	10.76	10.94	11.10	11.26	11.41
Food Sales	1.04	1.06	1.08	1.10	1.11	1.12	1.13	1.14	1.16	1.18	1.20	1.21	1.22
Food Service	1.93	1.97	2.01	2.04	2.06	2.07	2.08	2.10	2.13	2.16	2.19	2.21	2.22
Health Care	1.93	1.98	2.04	2.09	2.14	2.20	2.25	2.30	2.35	2.40	2.45	2.50	2.55
Lodging	4.71	4.82	4.93	5.06	5.19	5.30	5.40	5.50	5.60	5.71	5.82	5.93	6.04
Office - Large	7.52	7.64	7.77	7.95	8.12	8.28	8.42	8.55	8.66	8.77	8.86	8.95	9.04
Office - Small	5.86	5.97	6.08	6.22	6.35	6.48	6.59	6.69	6.78	6.87	6.96	7.04	7.13
Mercantile/Service	14.29	14.60	14.92	15.18	15.36	15.51	15.65	15.84	16.08	16.34	16.57	16.74	16.86
Warehouse	11.33	11.91	12.59	13.11	13.44	13.66	13.83	13.97	14.10	14.26	14.51	14.84	15.18
Other	4.64	4.84	5.05	5.25	5.46	5.67	5.86	6.05	6.23	6.41	6.58	6.75	6.93
Total	70.22	72.09	74.14	76.01	77.57	78.91	80.12	81.32	82.54	83.82	85.10	86.37	87.61
<b>Stock Average Equipment Efficiency 2/</b>													
<b>Space Heating</b>													
Electricity	1.06	1.07	1.08	1.09	1.10	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.12
Natural Gas	0.73	0.73	0.74	0.74	0.75	0.75	0.76	0.76	0.76	0.76	0.77	0.77	0.77
Distillate	0.74	0.75	0.75	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78
<b>Space Cooling</b>													
Electricity	2.73	2.76	2.80	2.83	2.86	2.89	2.92	2.95	2.98	3.01	3.03	3.06	3.08
Natural Gas	0.92	0.95	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.02	1.03	1.03	1.04
<b>Water Heating</b>													
Electricity	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00
Natural Gas	0.78	0.79	0.80	0.81	0.81	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83
Distillate	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77
<b>Ventilation (cubic feet per minute per Btu) 3/</b>													
Electricity	0.34	0.35	0.35	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40
<b>Cooking</b>													
Electricity	0.71	0.72	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74
Natural Gas	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Lighting Efficacy 4/ (efficacy in lumens per watt) Electricity	48.76	48.87	48.95	48.94	49.04	49.17	49.32	49.40	49.49	49.56	49.68	49.82	49.96
Refrigeration Electricity	1.38	1.39	1.40	1.40	1.40	1.41	1.41	1.41	1.42	1.42	1.42	1.43	1.43

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Commercial Building Delivered</b>													
<b>Energy Consumption (quadrillion Btu) 1/</b>													
Assembly	0.61	0.62	0.62	0.63	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.69	1.2%
Education	0.85	0.86	0.87	0.88	0.89	0.90	0.90	0.91	0.91	0.92	0.92	0.92	1.2%
Food Sales	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.27	1.0%
Food Service	0.52	0.52	0.53	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.58	0.59	1.1%
Health Care	0.65	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.80	0.82	0.84	0.87	2.8%
Lodging	0.60	0.62	0.63	0.64	0.65	0.67	0.68	0.70	0.71	0.73	0.74	0.76	2.2%
Office - Large	0.99	1.00	1.02	1.04	1.06	1.08	1.11	1.13	1.15	1.17	1.20	1.22	2.2%
Office - Small	0.57	0.58	0.59	0.60	0.61	0.63	0.64	0.65	0.66	0.67	0.68	0.70	2.1%
Mercantile/Service	1.52	1.53	1.54	1.56	1.58	1.61	1.63	1.64	1.65	1.66	1.67	1.69	1.2%
Warehouse	0.73	0.74	0.75	0.77	0.79	0.80	0.82	0.83	0.85	0.88	0.90	0.92	2.1%
Other	0.58	0.60	0.61	0.63	0.65	0.67	0.68	0.70	0.72	0.74	0.76	0.78	3.0%
Total	7.88	7.98	8.11	8.24	8.39	8.55	8.70	8.83	8.96	9.10	9.25	9.41	1.8%
<b>Commercial Building Floorspace (billion square feet)</b>													
Assembly	9.11	9.19	9.28	9.36	9.44	9.52	9.60	9.70	9.78	9.87	9.97	10.06	1.0%
Education	11.55	11.69	11.82	11.93	12.03	12.12	12.20	12.27	12.32	12.36	12.40	12.44	1.3%
Food Sales	1.22	1.22	1.23	1.24	1.25	1.27	1.28	1.29	1.29	1.29	1.29	1.29	0.9%
Food Service	2.22	2.23	2.24	2.26	2.29	2.32	2.35	2.37	2.37	2.38	2.38	2.40	0.9%
Health Care	2.61	2.66	2.72	2.78	2.83	2.89	2.95	3.02	3.08	3.15	3.22	3.28	2.2%
Lodging	6.16	6.28	6.39	6.50	6.60	6.71	6.82	6.94	7.05	7.17	7.30	7.43	1.9%
Office - Large	9.14	9.23	9.33	9.42	9.50	9.59	9.68	9.79	9.88	9.98	10.10	10.23	1.3%
Office - Small	7.22	7.30	7.40	7.48	7.57	7.65	7.74	7.83	7.92	8.02	8.13	8.24	1.4%
Mercantile/Service	16.95	17.03	17.16	17.33	17.56	17.79	18.01	18.18	18.26	18.32	18.41	18.57	1.1%
Warehouse	15.52	15.80	16.06	16.32	16.58	16.85	17.11	17.37	17.70	18.10	18.47	18.79	2.0%
Other	7.11	7.29	7.47	7.64	7.80	7.97	8.15	8.33	8.51	8.69	8.88	9.07	2.8%
Total	88.79	89.93	91.08	92.25	93.46	94.68	95.90	97.07	98.19	99.33	100.52	101.81	1.5%
<b>Stock Average Equipment Efficiency 2/</b>													
<b>Space Heating</b>													
Electricity	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.2%
Natural Gas	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.3%
Distillate	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.2%
<b>Space Cooling</b>													
Electricity	3.10	3.12	3.13	3.15	3.17	3.19	3.21	3.23	3.25	3.26	3.28	3.29	0.8%
Natural Gas	1.05	1.05	1.06	1.06	1.07	1.07	1.08	1.09	1.10	1.11	1.11	1.12	0.7%
<b>Water Heating</b>													
Electricity	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	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.3%
Distillate	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.1%
<b>Ventilation (cubic feet per minute per Btu) 3/</b>													
Electricity	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.44	0.44	0.44	0.45	1.1%
<b>Cooking</b>													
Electricity	0.74	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	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.1%



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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Lighting Efficacy 4/ (efficacy in lumens per watt) Electricity	50.14	50.54	50.95	51.29	51.61	51.91	52.24	52.59	52.98	53.33	53.70	53.98	0.4%
Refrigeration Electricity	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.42	0.1%

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

1/ Excludes commercial sector energy consumption (from uses such as street lights) 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 quality of light, expressed in lumens per watt.

Btu = British thermal unit.

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

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 23. Industrial Sector Macroeconomic Indicators

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
GDP (billion 1996 dollars)	9214.5	9439.9	9656.6	10018.6	10402.0	10764.0	11128.5	11495.8	11839.3	12189.9	12542.6	12906.1	13313.5
Nonfarm Employment (millions)	131.6	130.5	130.1	131.6	134.1	136.5	138.8	141.1	143.1	145.0	146.8	148.3	150.2
Value of Shipments (billion 1996 dollars)													
Nonmanufacturing Sector													
Agricultural	282.0	290.2	287.4	290.5	293.4	297.8	301.0	304.5	308.4	312.7	317.2	322.1	327.4
Mining	139.6	134.3	132.5	135.0	138.1	140.2	142.8	144.3	145.1	146.0	147.1	148.2	149.3
Construction	887.3	797.0	762.7	785.1	836.3	856.6	874.6	902.1	935.9	966.8	992.9	1013.7	1050.4
Manufacturing Sector													
Food and Kindred Products	441.2	459.0	447.3	459.3	469.4	476.6	482.1	488.8	496.9	508.6	518.6	529.0	539.3
Beverages and Tobacco Products	104.8	106.2	103.9	106.2	107.9	109.6	111.4	113.5	115.9	118.4	121.1	124.1	127.3
Textile Mill Products	70.6	68.5	64.0	64.3	64.8	64.6	64.4	64.2	64.0	63.9	63.9	64.0	63.9
Apparel and Other Textile Products	75.8	73.1	69.2	68.5	68.2	67.6	67.0	66.1	64.9	64.1	63.5	62.9	62.1
Lumber and Wood Products	99.2	96.6	93.7	91.2	89.6	90.4	93.0	93.6	94.8	96.3	97.5	96.7	96.4
Furniture and Fixtures	61.5	59.3	58.0	60.4	62.7	64.5	66.0	67.3	68.7	70.5	72.3	74.1	75.7
Paper and Allied Products	154.5	155.2	155.6	161.6	167.3	171.2	173.7	175.9	179.1	183.3	187.6	192.3	197.2
Printing and Publishing	192.0	181.4	184.8	192.1	199.7	204.0	205.8	207.3	210.1	214.0	217.6	221.5	225.5
Chemical and Allied Products	388.8	386.3	395.2	414.5	429.3	441.3	455.0	468.5	479.2	491.3	504.2	516.3	530.0
Bulk Chemicals	194.0	189.0	186.5	194.0	199.5	204.0	209.1	213.1	215.4	218.3	222.3	226.1	230.6
Other Chemical and Allied Products	194.7	197.4	208.7	220.5	229.7	237.3	245.9	255.4	263.8	273.1	281.9	290.2	299.4
Petroleum and Coal Products	183.6	199.1	197.7	201.5	205.8	210.3	215.0	218.9	222.1	225.5	229.1	233.8	239.2
Petroleum Refining	167.0	182.9	181.6	185.1	188.8	192.9	197.3	200.8	203.6	206.6	209.8	214.0	218.8
Other Petroleum and Coal Products	16.6	16.2	16.1	16.4	17.0	17.4	17.7	18.1	18.5	18.9	19.3	19.8	20.3
Rubber and Miscellaneous Plastic Products	160.6	162.2	162.1	168.6	174.9	179.8	184.2	188.5	193.2	198.4	204.5	210.6	216.6
Leather and Leather Products	7.2	6.6	6.2	6.1	6.0	5.8	5.7	5.6	5.5	5.5	5.4	5.4	5.3
Stone, Clay, and Glass Products	89.0	88.7	89.5	92.9	98.2	100.3	102.3	103.0	104.4	106.7	108.9	110.9	113.8
Glass and Glass Products	24.5	25.3	25.5	26.5	27.7	28.6	29.7	30.5	31.4	32.8	34.1	35.1	36.3
Cement and Hydraulic Products	6.1	6.1	6.1	6.2	6.5	6.6	6.7	6.8	6.9	7.1	7.3	7.5	7.6
Other Stone, Clay, and Glass Products	58.4	57.3	57.9	60.1	64.0	65.0	65.8	65.8	66.1	66.7	67.5	68.3	69.9
Primary Metals Industry	175.2	174.8	169.8	176.6	184.2	189.4	194.2	197.7	199.9	202.1	204.9	207.1	208.6
Blast Furnace and Basic Steel Products	67.4	72.9	72.7	75.5	78.2	78.9	80.3	81.8	82.7	83.8	85.0	85.8	86.1
Aluminum	30.2	29.7	27.5	28.1	28.5	30.1	31.2	31.7	31.9	32.1	32.4	32.6	32.9
Other Primary Metal Products	77.5	72.2	69.6	73.0	77.6	80.3	82.7	84.2	85.3	86.2	87.4	88.7	89.6
Fabricated Metal Products	217.9	216.4	213.1	222.9	233.2	240.3	243.2	245.5	251.0	258.9	265.4	272.4	280.5
Industrial Machinery and Equipment	421.8	403.3	407.1	432.5	457.7	478.6	494.7	509.7	525.2	542.6	558.9	577.2	596.0
Electronic and Other Electric Equipment	435.1	398.5	419.5	459.0	488.7	517.6	544.4	574.0	604.6	637.3	669.3	705.7	745.4
Transportation Equipment	527.1	574.1	559.8	583.4	596.9	617.6	649.1	667.9	689.2	708.3	734.8	755.0	775.1
Instruments and Related Products	189.2	188.2	181.7	189.5	196.3	203.1	209.9	216.2	222.2	229.2	236.2	244.3	253.1
Miscellaneous Manufacturing Industries	63.9	66.0	65.1	68.1	71.7	75.2	78.7	82.0	85.0	88.2	91.2	94.3	97.5
Total Industrial Value of Shipments	5367.8	5285.2	5225.8	5429.6	5640.4	5802.5	5957.8	6105.2	6265.4	6438.6	6612.2	6781.5	6975.8

Table 23. Industrial Sector Macroeconomic Indicators

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
GDP (billion 1996 dollars)	13715.0	14101.1	14496.6	14918.3	15351.0	15755.9	16188.0	16589.2	17035.3	17500.4	17980.3	18520.2	3.0%
Nonfarm Employment (millions)	152.0	153.4	154.9	156.4	158.1	159.7	161.2	162.6	164.1	165.5	167.0	168.6	1.1%
Value of Shipments (billion 1996 dollars)													
Nonmanufacturing Sector													
Agricultural	332.1	336.0	339.3	343.1	347.2	351.8	355.9	360.6	365.3	370.0	375.7	381.2	1.2%
Mining	150.3	151.6	152.0	153.4	156.8	159.2	160.2	160.3	160.7	163.0	165.4	166.6	0.9%
Construction	1078.9	1097.4	1113.3	1131.4	1159.6	1167.5	1193.5	1208.7	1237.2	1265.4	1284.0	1306.9	2.2%
Manufacturing Sector													
Food and Kindred Products	549.0	558.1	567.5	577.5	587.3	596.0	605.5	614.5	624.7	635.6	646.9	659.7	1.6%
Beverages and Tobacco Products	130.0	132.3	135.0	137.5	140.1	142.5	145.1	148.0	151.1	154.6	158.0	161.5	1.8%
Textile Mill Products	64.1	65.1	66.4	67.6	69.0	70.0	71.3	72.1	73.5	74.9	76.4	78.3	0.6%
Apparel and Other Textile Products	61.6	62.1	63.3	64.8	66.3	67.3	68.7	69.5	71.0	72.5	74.3	76.3	0.2%
Lumber and Wood Products	96.7	96.9	97.4	98.8	100.2	100.1	99.8	98.4	97.7	97.1	95.5	95.0	-0.1%
Furniture and Fixtures	77.1	77.4	78.1	79.6	81.2	81.7	83.2	84.3	86.1	88.0	89.3	91.2	1.9%
Paper and Allied Products	201.5	204.7	207.9	211.5	214.9	217.5	220.0	222.4	224.9	227.7	230.3	233.2	1.8%
Printing and Publishing	229.9	233.9	238.0	242.7	247.2	251.2	255.4	259.4	263.4	268.0	272.4	277.5	1.9%
Chemical and Allied Products	540.8	553.4	567.7	583.0	597.7	611.5	624.9	635.5	647.3	659.6	672.4	686.3	2.5%
Bulk Chemicals	232.5	235.6	239.9	244.4	248.4	252.2	255.8	258.3	261.6	265.2	268.4	272.0	1.6%
Other Chemical and Allied Products	308.3	317.8	327.9	338.6	349.3	359.3	369.1	377.2	385.7	394.5	404.0	414.3	3.3%
Petroleum and Coal Products	244.1	247.4	248.9	251.0	253.8	256.8	260.0	263.7	266.0	268.8	271.0	273.1	1.4%
Petroleum Refining	223.4	226.4	227.5	229.2	231.6	234.3	237.1	240.5	242.2	244.6	246.3	247.9	1.3%
Other Petroleum and Coal Products	20.7	21.0	21.4	21.8	22.2	22.5	22.9	23.3	23.8	24.2	24.7	25.2	1.9%
Rubber and Miscellaneous Plastic Products	223.6	230.8	239.3	248.3	257.2	264.2	271.6	278.6	287.3	296.3	305.8	316.2	2.9%
Leather and Leather Products	5.2	5.1	5.1	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.4	4.4	-1.7%
Stone, Clay, and Glass Products	116.1	118.0	120.1	122.7	125.0	126.7	129.1	130.8	133.2	135.7	137.8	140.5	2.0%
Glass and Glass Products	37.2	38.1	39.1	40.3	41.2	42.1	43.4	44.3	45.4	46.5	47.4	48.4	2.9%
Cement and Hydraulic Products	7.8	7.8	7.9	8.1	8.3	8.3	8.4	8.5	8.7	8.8	8.9	9.1	1.8%
Other Stone, Clay, and Glass Products	71.1	72.0	73.0	74.4	75.6	76.3	77.3	78.1	79.2	80.4	81.5	83.0	1.6%
Primary Metals Industry													
Blast Furnace and Basic Steel Products	86.7	87.7	88.7	89.6	91.1	91.8	93.1	94.1	95.7	97.4	99.1	101.3	1.4%
Aluminum	33.5	34.2	34.8	35.5	36.0	36.3	36.6	36.9	37.3	37.7	38.2	38.7	1.2%
Other Primary Metal Products	90.4	90.9	91.6	92.3	93.5	93.8	94.6	95.0	95.9	97.0	97.7	99.3	1.4%
Fabricated Metal Products													
Industrial Machinery and Equipment	616.6	639.4	664.1	689.0	715.7	741.7	769.8	799.4	832.2	867.7	906.4	941.9	3.8%
Electronic and Other Electric Equipment	787.5	831.1	870.6	914.8	954.9	985.6	1022.1	1064.7	1111.7	1158.2	1212.7	1277.7	5.2%
Transportation Equipment	794.5	817.9	853.6	893.3	928.6	961.0	995.8	1022.4	1060.0	1099.1	1135.4	1177.7	3.2%
Instruments and Related Products	263.4	273.9	283.9	295.2	307.4	317.4	329.0	340.2	353.1	366.3	379.3	395.2	3.3%
Miscellaneous Manufacturing Industries	100.1	103.9	107.7	111.5	115.7	119.7	124.3	127.3	130.7	135.4	142.2	150.4	3.6%
Total Industrial Value of Shipments	7162.3	7344.7	7536.4	7749.4	7970.2	8140.3	8344.0	8525.9	8751.6	8988.1	9224.3	9490.9	2.6%

Table 23. Industrial Sector Macroeconomic Indicators

GDP = Gross domestic product.

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

Source: 2002: Global Insight macroeconomic model T250803. Projections: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 24. Refining Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Value of Shipments (billion 1996 dollars)	166.96	182.89	181.64	185.14	188.82	192.92	197.31	200.79	203.59	206.62	209.80	213.99	218.84	223.38	226.41
<b>Energy Consumption (trillion Btu)</b>															
Residual Oil	39.8	30.3	30.6	31.3	37.7	39.0	40.0	40.9	41.2	41.0	40.9	40.8	40.8	40.8	48.0
Distillate Oil	6.2	4.9	5.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas	17.8	12.4	12.5	12.8	14.1	15.5	17.0	18.7	20.6	22.7	24.9	27.4	30.2	33.2	36.5
Petroleum Coke	532.6	531.6	538.1	549.2	624.8	621.1	622.9	615.2	627.0	639.2	666.8	708.0	755.5	797.5	813.5
Still Gas	1441.3	1399.4	1416.7	1446.0	1519.6	1596.3	1628.3	1684.3	1718.5	1651.0	1574.4	1574.7	1573.1	1596.9	1603.8
Other Petroleum 2/	33.5	30.2	30.6	31.2	124.8	165.2	183.7	179.4	185.3	190.3	189.1	180.5	181.6	184.2	184.4
Petroleum Subtotal	2071.3	2008.7	2033.5	2075.6	2320.9	2437.1	2492.0	2538.5	2592.6	2544.1	2496.1	2531.4	2581.1	2652.6	2686.2
Natural Gas	785.4	776.9	786.5	802.7	777.9	748.1	742.7	736.6	724.8	817.2	918.6	939.9	959.3	946.8	935.6
Steam Coal 3/	0.8	0.7	0.7	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	116.6	118.5	119.9	122.4	130.8	140.6	145.6	145.9	144.0	142.3	141.4	141.3	140.8	141.6	139.5
Total	2974.2	2904.7	2940.7	3000.7	3229.7	3325.8	3380.3	3420.9	3461.4	3503.6	3556.1	3612.6	3681.3	3741.0	3761.3
<b>Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)</b>															
Residual Oil	0.24	0.17	0.17	0.17	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.21
Distillate Oil	0.04	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas	0.11	0.07	0.07	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16
Petroleum Coke	3.19	2.91	2.96	2.97	3.31	3.22	3.16	3.06	3.08	3.09	3.18	3.31	3.45	3.57	3.59
Still Gas	8.63	7.65	7.80	7.81	8.05	8.27	8.25	8.39	8.44	7.99	7.50	7.36	7.19	7.15	7.08
Other Petroleum 2/	0.20	0.17	0.17	0.17	0.66	0.86	0.93	0.89	0.91	0.92	0.90	0.84	0.83	0.82	0.81
Petroleum Subtotal	12.41	10.98	11.20	11.21	12.29	12.63	12.63	12.64	12.73	12.31	11.90	11.83	11.79	11.88	11.86
Natural Gas	4.70	4.25	4.33	4.34	4.12	3.88	3.76	3.67	3.56	3.96	4.38	4.39	4.38	4.24	4.13
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	0.00	0.00
Purchased Electricity	0.70	0.65	0.66	0.66	0.69	0.73	0.74	0.73	0.71	0.69	0.67	0.66	0.64	0.63	0.62
Total	17.81	15.88	16.19	16.21	17.10	17.24	17.13	17.04	17.00	16.96	16.95	16.88	16.82	16.75	16.61
<b>Carbon Dioxide Emissions 4/ (million metric tons)</b>															
190.4	185.7	188.0	191.3	207.3	215.6	220.0	222.8	225.1	226.3	228.0	230.7	234.1	237.5	238.5	
<b>Combined Heat and Power</b>															
<b>Generating Capacity (gigawatts)</b>															
Petroleum	0.39	0.39	0.39	0.39	0.60	0.75	0.75	0.83	0.93	1.04	1.14	1.20	1.26	1.32	1.34
Natural Gas	2.34	2.34	2.34	2.34	2.51	2.64	2.64	2.71	2.80	2.89	2.98	3.05	3.13	3.21	3.28
Coal	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Other 5/	0.94	0.94	0.94	0.94	1.21	1.27	1.27	1.30	1.33	1.37	1.41	1.45	1.48	1.52	1.55
Total	3.70	3.70	3.70	3.70	4.32	4.66	4.66	4.84	5.07	5.30	5.54	5.71	5.88	6.05	6.18
<b>Net Generation (billion kilowatthours)</b>															
Petroleum	1.02	0.90	1.28	1.28	4.26	4.98	5.53	6.16	7.04	7.91	8.79	9.28	9.77	10.26	10.45
Natural Gas	17.74	17.87	16.26	16.26	16.61	17.61	17.67	18.20	18.92	19.63	20.35	20.96	21.57	22.18	22.75
Coal	0.21	0.23	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05
Other 5/	3.78	4.90	5.93	5.93	7.99	8.45	8.45	8.68	8.98	9.29	9.60	9.87	10.15	10.42	10.70
Total	22.75	23.90	23.47	23.47	28.90	31.08	31.68	33.08	34.98	36.89	38.79	40.16	41.54	42.91	43.95
<b>Disposition</b>															
Sales to the Grid	5.96	5.80	6.09	6.09	5.04	6.08	6.67	7.48	8.53	9.59	10.64	11.23	11.82	12.41	12.68
Generation for Own Use	16.80	18.10	17.38	17.38	23.85	25.00	25.02	25.60	26.45	27.30	28.15	28.93	29.71	30.49	31.27
<b>Energy Input (trillion Btu)</b>															
Petroleum	37	37	37	37	57	65	70	77	86	95	104	110	115	121	124
Natural Gas	330	330	330	330	371	400	400	414	434	454	473	491	509	527	545
Coal	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
Other 5/	156	156	156	156	181	195	194	201	210	220	229	237	246	254	263
Total	523	523	523	523	610	661	665	692	731	769	807	840	872	904	933

Energy Consumed at Ethanol Plants

Table 24. Refining Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
(trillion Btu)															
Natural Gas	26.4	31.0	41.1	45.4	66.6	68.9	70.7	72.5	74.4	75.3	77.1	75.7	77.1	78.2	79.1
Coal	53.0	62.7	83.8	93.2	68.5	68.5	68.4	68.3	68.3	68.2	68.1	68.1	68.0	67.9	67.9
Electricity	3.2	3.8	5.2	5.8	7.4	7.7	7.9	8.1	8.3	8.4	8.6	8.5	8.7	8.8	8.9
Total	82.6	97.5	130.1	144.4	142.5	145.1	147.0	149.0	151.0	152.0	153.8	152.3	153.8	154.9	155.9

Table 24. Refining Industry Energy Consumption

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	227.51	229.23	231.60	234.31	237.06	240.45	242.24	244.58	246.33	247.91	1.3%
<b>Energy Consumption (trillion Btu)</b>											
Residual Oil	41.0	40.2	40.2	40.5	40.5	40.8	40.9	40.9	41.1	41.2	1.3%
Distillate Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas	40.2	44.2	48.6	53.5	58.8	64.7	71.2	78.3	86.1	94.7	9.2%
Petroleum Coke	831.0	848.0	852.7	872.4	893.1	912.1	935.4	950.5	953.4	956.0	2.6%
Still Gas	1619.6	1628.1	1636.4	1649.5	1671.4	1691.8	1705.9	1711.3	1715.4	1726.1	0.9%
Other Petroleum 2/	180.7	171.6	178.4	181.7	156.4	152.4	147.8	137.5	131.0	117.8	6.1%
Petroleum Subtotal	2712.5	2732.0	2756.4	2797.5	2820.2	2861.8	2901.2	2918.5	2927.1	2935.8	1.7%
Natural Gas	937.0	938.2	931.4	942.4	944.2	933.7	928.2	945.1	949.2	951.2	0.9%
Steam Coal 3/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Purchased Electricity	137.0	131.8	121.1	115.3	109.1	108.2	108.1	107.5	106.3	104.8	-0.5%
Total	3786.5	3802.1	3808.9	3855.2	3873.5	3903.6	3937.6	3971.1	3982.6	3991.9	1.4%
<b>Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)</b>											
Residual Oil	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
Distillate Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas	0.18	0.19	0.21	0.23	0.25	0.27	0.29	0.32	0.35	0.38	7.8%
Petroleum Coke	3.65	3.70	3.68	3.72	3.77	3.79	3.86	3.89	3.87	3.86	1.2%
Still Gas	7.12	7.10	7.07	7.04	7.05	7.04	7.04	7.00	6.96	6.96	-0.4%
Other Petroleum 2/	0.79	0.75	0.77	0.78	0.66	0.63	0.61	0.56	0.53	0.48	4.7%
Petroleum Subtotal	11.92	11.92	11.90	11.94	11.90	11.90	11.98	11.93	11.88	11.84	0.3%
Natural Gas	4.12	4.09	4.02	4.02	3.98	3.88	3.83	3.86	3.85	3.84	-0.4%
Steam Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Purchased Electricity	0.60	0.58	0.52	0.49	0.46	0.45	0.45	0.44	0.43	0.42	-1.8%
Total	16.64	16.59	16.45	16.45	16.34	16.23	16.26	16.24	16.17	16.10	0.1%
Carbon Dioxide Emissions 4/ (million metric tons)	239.4	239.4	238.6	240.6	240.5	242.2	244.2	245.9	246.3	246.6	1.2%
<b>Combined Heat and Power</b>											
<b>Generating Capacity (gigawatts)</b>											
Petroleum	1.36	1.39	1.48	1.57	1.67	1.67	1.68	1.69	1.69	1.70	6.6%
Natural Gas	3.35	3.43	3.51	3.59	3.67	3.72	3.77	3.82	3.87	3.92	2.3%
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.4%
Other 5/	1.59	1.62	1.66	1.69	1.73	1.75	1.77	1.80	1.82	1.85	3.0%
Total	6.31	6.44	6.65	6.86	7.07	7.15	7.23	7.31	7.39	7.47	3.1%
<b>Net Generation (billion kilowatthours)</b>											
Petroleum	10.64	10.83	11.61	12.39	13.18	13.22	13.27	13.31	13.35	13.40	12.4%
Natural Gas	23.33	23.90	24.54	25.18	25.82	26.22	26.62	27.01	27.41	27.81	1.9%
Coal	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	-5.4%
Other 5/	10.97	11.24	11.52	11.79	12.07	12.26	12.45	12.65	12.84	13.04	4.3%
Total	44.99	46.03	47.73	49.43	51.13	51.76	52.40	53.03	53.67	54.30	3.6%
<b>Disposition</b>											
Sales to the Grid	12.94	13.21	14.12	15.03	15.95	15.95	15.96	15.97	15.97	15.98	4.5%
Generation for Own Use	32.04	32.82	33.61	34.39	35.18	35.81	36.44	37.07	37.70	38.33	3.3%
<b>Energy Input (trillion Btu)</b>											
Petroleum	127	130	138	146	154	155	157	158	159	160	6.6%
Natural Gas	562	579	597	614	631	642	653	664	675	685	3.2%
Coal	1	1	1	1	2	2	2	2	2	2	N/A
Other 5/	271	280	288	296	304	310	315	320	325	331	3.3%
Total	961	990	1024	1058	1092	1109	1126	1144	1161	1178	3.6%

Energy Consumed at Ethanol Plants



Table 24. Refining Industry Energy Consumption

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
(trillion Btu)											
Natural Gas	79.6	80.1	80.6	80.7	80.8	80.5	80.7	80.7	80.5	80.1	4.2%
Coal	67.8	67.7	67.7	67.6	67.5	67.5	67.5	67.5	67.5	67.5	0.3%
Electricity	9.0	9.1	9.2	9.2	9.3	9.2	9.2	9.2	9.2	9.2	3.9%
Total	156.4	156.8	157.4	157.4	157.6	157.2	157.4	157.4	157.2	156.8	2.1%

Table 24. Refining Industry Energy Consumption

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

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). 2001 and 2002 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. 2001 and 2002 electricity consumption at ethanol plants: U.S. Department of Agriculture, 1998 Ethanol Cost-of-Production Survey, Agricultural Economic Report Number 808. Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 25. Food Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Value of Shipments (billion 1996 dollars)	441.18	459.01	447.29	459.29	469.41	476.61	482.09	488.79	496.88	508.61	518.65	528.98	539.28	549.00	558.06
Energy Consumption (trillion Btu)															
Residual Oil	14.4	11.0	12.8	12.3	12.2	12.0	12.0	12.2	11.9	11.9	12.3	12.7	13.2	13.4	13.8
Distillate Oil	17.6	14.1	16.2	15.6	15.5	15.3	15.4	15.6	15.3	15.3	15.8	16.3	16.8	17.2	17.6
Liquefied Petroleum Gas	5.1	5.2	5.4	5.1	5.4	5.3	5.4	5.4	5.4	5.4	5.5	5.7	5.8	5.9	6.0
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	0.0	0.0
Petroleum Subtotal	37.1	30.4	34.4	32.9	33.0	32.7	32.8	33.3	32.6	32.7	33.6	34.7	35.8	36.5	37.4
Natural Gas	544.6	576.6	547.1	563.4	574.2	581.2	584.8	589.4	597.9	610.1	618.4	626.7	634.3	641.8	648.3
Steam Coal	155.5	159.2	158.7	158.7	158.7	158.6	158.5	158.4	158.3	158.3	158.3	158.3	158.3	158.3	158.3
Renewables	134.5	140.4	137.4	141.4	145.0	147.8	150.1	152.8	156.0	160.3	164.1	168.0	171.9	175.7	179.4
Purchased Electricity	217.4	222.3	218.5	221.5	224.8	227.1	228.7	230.8	233.1	237.5	241.4	245.5	249.7	253.3	256.6
Total	1089.1	1128.8	1096.0	1118.0	1135.8	1147.4	1155.0	1164.7	1178.0	1198.8	1215.7	1233.2	1250.0	1265.6	1280.0
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)															
Residual Oil	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distillate Oil	0.04	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	0.03
Liquefied Petroleum 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	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	0.00	0.00
Petroleum Subtotal	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07
Natural Gas	1.23	1.26	1.22	1.23	1.22	1.22	1.21	1.21	1.20	1.20	1.19	1.18	1.18	1.17	1.16
Steam Coal	0.35	0.35	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.29	0.29	0.28
Renewables	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32
Purchased Electricity	0.49	0.48	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.46
Total	2.47	2.46	2.45	2.43	2.42	2.41	2.40	2.38	2.37	2.36	2.34	2.33	2.32	2.31	2.29
Carbon Dioxide Emissions 3/ (million metric tons)	87.8	89.4	87.5	87.8	89.2	90.2	90.9	91.4	92.2	93.5	94.5	95.7	96.7	97.7	98.6
Combined Heat and Power 4/ Generating Capacity (gigawatts)															
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	0.07	0.07
Natural Gas	0.53	0.53	0.55	0.59	0.64	0.69	0.74	0.79	0.85	0.91	0.97	1.02	1.07	1.12	1.16
Coal	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	0.85	0.85
Other 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	0.01	0.01	0.01
Total	1.46	1.46	1.48	1.52	1.57	1.62	1.67	1.72	1.78	1.84	1.90	1.96	2.00	2.05	2.10
Net Generation (billion kilowatthours)															
Petroleum	0.13	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	0.10
Natural Gas	1.99	2.14	2.28	2.58	2.94	3.31	3.67	4.05	4.49	4.93	5.34	5.73	6.07	6.40	6.75
Coal	3.42	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
Other 5/	0.21	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	0.22
Total	5.75	6.16	6.30	6.60	6.96	7.33	7.70	8.07	8.51	8.95	9.36	9.76	10.09	10.43	10.77
Disposition															
Sales to the Grid	0.31	0.30	0.38	0.56	0.78	1.00	1.22	1.45	1.71	1.97	2.22	2.46	2.66	2.86	3.07
Generation for Own Use	5.45	5.86	5.92	6.04	6.18	6.33	6.48	6.63	6.80	6.98	7.14	7.30	7.43	7.57	7.71
Thermal Output (trillion Btu)	108.2	108.3	108.8	109.9	111.1	112.3	113.5	114.7	116.2	117.6	118.8	120.1	121.1	122.1	123.1
Energy Input (trillion Btu)															
Petroleum	3.1	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	2.2
Natural Gas	50.7	54.5	55.8	58.6	61.9	65.4	68.7	72.2	76.2	80.2	83.9	87.4	90.4	93.4	96.4
Coal	130.0	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2
Other 5/	13.1	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
Total	196.9	202.1	203.4	206.2	209.5	213.0	216.3	219.8	223.8	227.8	231.5	235.0	238.0	241.0	244.0
Efficiency 6/	0.649	0.640	0.641	0.642	0.643	0.645	0.646	0.647	0.649	0.650	0.651	0.652	0.653	0.654	0.655
Power-to-Heat Ratio 7/	0.181	0.194	0.197	0.205	0.214	0.223	0.231	0.240	0.250	0.260	0.269	0.277	0.284	0.291	0.299

Table 25. Food Industry Energy Consumption

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	567.54	577.45	587.32	596.02	605.47	614.49	624.73	635.56	646.89	659.66	1.6%
Energy Consumption (trillion Btu)											
Residual Oil	13.8	13.9	13.9	13.9	14.1	14.6	14.6	14.6	14.8	15.0	1.3%
Distillate Oil	17.7	17.8	17.8	17.8	18.1	18.6	18.7	18.8	19.0	19.2	1.3%
Liquefied Petroleum Gas	6.1	6.1	6.2	6.2	6.3	6.4	6.4	6.5	6.6	6.6	1.1%
Other Petroleum 2/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	37.6	37.8	37.8	37.9	38.4	39.5	39.7	39.9	40.4	40.8	1.3%
Natural Gas	657.1	667.8	679.4	689.7	700.3	709.3	721.3	734.1	747.3	762.4	1.2%
Steam Coal	158.3	158.3	158.3	158.4	158.4	158.4	158.5	158.5	158.6	158.7	0.0%
Renewables	183.1	187.0	190.8	194.3	198.0	201.5	205.4	209.5	213.7	218.4	1.9%
Purchased Electricity	259.9	263.4	266.6	269.4	272.5	275.7	279.2	282.9	286.9	291.4	1.2%
Total	1296.0	1314.3	1333.0	1349.6	1367.5	1384.4	1404.0	1424.9	1446.8	1471.7	1.2%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)											
Residual Oil	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.2%
Distillate Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.2%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.5%
Other Petroleum 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.3%
Natural Gas	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.16	1.16	-0.4%
Steam Coal	0.28	0.27	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.24	-1.6%
Renewables	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.3%
Purchased Electricity	0.46	0.46	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.44	-0.4%
Total	2.28	2.28	2.27	2.26	2.26	2.25	2.25	2.24	2.24	2.23	-0.4%
Carbon Dioxide Emissions 3/ (million metric tons)	99.6	100.8	101.9	102.9	104.1	105.4	107.0	108.7	110.3	112.1	1.0%
Combined Heat and Power 4/ Generating Capacity (gigawatts)											
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
Natural Gas	1.22	1.27	1.33	1.40	1.46	1.53	1.59	1.66	1.73	1.81	5.5%
Coal	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	N/A
Other 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Total	2.15	2.20	2.26	2.33	2.40	2.46	2.53	2.59	2.67	2.74	2.8%
Net Generation (billion kilowatthours)											
Petroleum	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	N/A
Natural Gas	7.13	7.52	7.97	8.43	8.93	9.39	9.86	10.34	10.87	11.43	7.6%
Coal	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	N/A
Other 5/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	N/A
Total	11.15	11.54	11.99	12.46	12.95	13.41	13.88	14.36	14.89	15.45	4.1%
Disposition											
Sales to the Grid	3.30	3.53	3.80	4.08	4.37	4.65	4.93	5.22	5.54	5.87	13.8%
Generation for Own Use	7.86	8.01	8.19	8.38	8.58	8.76	8.95	9.14	9.35	9.58	2.2%
Thermal Output (trillion Btu)	124.2	125.3	126.6	127.9	129.2	130.5	131.7	132.9	134.3	135.6	1.0%
Energy Input (trillion Btu)											
Petroleum	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	N/A
Natural Gas	99.8	103.2	107.0	111.0	115.3	119.1	123.1	127.1	131.5	136.0	4.1%
Coal	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	N/A
Other 5/	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	N/A
Total	247.4	250.8	254.6	258.6	262.9	266.7	270.7	274.7	279.1	283.6	1.5%
Efficiency 6/	0.656	0.657	0.658	0.659	0.660	0.661	0.661	0.662	0.663	0.664	0.2%
Power-to-Heat Ratio 7/	0.306	0.314	0.323	0.332	0.342	0.351	0.360	0.369	0.378	0.389	3.1%

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 26. Paper Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Value of Shipments (billion 1996 dollars)	154.49	155.23	155.63	161.61	167.34	171.19	173.67	175.94	179.09	183.30	187.58	192.27	197.20	201.45	204.75
Energy Consumption (trillion Btu)															
Residual Oil	147.6	122.2	126.8	125.9	124.8	123.8	123.3	123.0	121.8	121.1	121.4	122.0	122.6	122.7	123.1
Distillate Oil	9.4	8.4	8.7	8.6	8.7	8.7	8.8	8.8	8.8	8.8	8.9	9.0	9.0	9.1	9.2
Liquefied Petroleum Gas	5.3	5.4	5.4	5.2	5.5	5.5	5.5	5.5	5.5	5.5	5.6	5.7	5.8	5.9	5.9
Petroleum Subtotal	162.3	135.9	140.9	139.7	139.0	138.0	137.6	137.3	136.1	135.4	135.9	136.7	137.4	137.7	138.1
Natural Gas	490.1	526.3	511.2	520.5	529.5	535.4	538.0	539.9	545.8	552.5	557.2	561.9	566.1	570.2	573.0
Steam Coal	248.1	244.5	244.2	244.2	244.1	244.0	243.8	243.6	243.4	243.3	243.2	243.2	243.1	243.0	242.9
Renewables	1123.1	1133.3	1139.0	1185.4	1230.3	1261.3	1282.5	1302.6	1329.0	1363.1	1398.4	1436.1	1475.8	1510.9	1539.1
Purchased Electricity	219.9	208.6	207.8	211.6	215.9	217.6	217.2	216.6	216.9	219.1	221.7	225.0	228.5	231.0	232.2
Total	2243.4	2248.7	2243.2	2301.3	2358.8	2396.2	2419.0	2440.0	2471.1	2513.5	2556.4	2602.9	2651.0	2692.8	2725.4
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)															
Residual Oil	0.96	0.79	0.81	0.78	0.75	0.72	0.71	0.70	0.68	0.66	0.65	0.63	0.62	0.61	0.60
Distillate Oil	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04
Liquefied Petroleum Gas	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	0.03	0.03
Petroleum Subtotal	1.05	0.88	0.91	0.86	0.83	0.81	0.79	0.78	0.76	0.74	0.72	0.71	0.70	0.68	0.67
Natural Gas	3.17	3.39	3.28	3.22	3.16	3.13	3.10	3.07	3.05	3.01	2.97	2.92	2.87	2.83	2.80
Steam Coal	1.61	1.58	1.57	1.51	1.46	1.43	1.40	1.38	1.36	1.33	1.30	1.26	1.23	1.21	1.19
Renewables	7.27	7.30	7.32	7.34	7.35	7.37	7.38	7.40	7.42	7.44	7.45	7.47	7.48	7.50	7.52
Purchased Electricity	1.42	1.34	1.34	1.31	1.29	1.27	1.25	1.23	1.21	1.20	1.18	1.17	1.16	1.15	1.13
Total	14.52	14.49	14.41	14.24	14.10	14.00	13.93	13.87	13.80	13.71	13.63	13.54	13.44	13.37	13.31
Carbon Dioxide Emissions 2/ (million metric tons)	103.9	100.4	99.9	100.0	101.4	102.2	102.4	102.2	102.4	103.0	103.6	104.4	105.1	105.6	105.9
Combined Heat and Power 4/ Generating Capacity (gigawatts)															
Petroleum	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	0.19	0.19
Natural Gas	1.86	1.99	2.04	2.13	2.25	2.37	2.48	2.59	2.72	2.84	2.96	3.07	3.17	3.27	3.37
Coal	1.35	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	1.44
Other 5/ Total	3.88 7.27	3.98 7.60	4.03 7.69	4.32 8.08	4.60 8.47	4.79 8.78	4.92 9.02	5.04 9.26	5.20 9.55	5.41 9.88	5.63 10.21	5.86 10.56	6.11 10.90	6.33 11.22	6.50 11.49
Net Generation (billion kilowatthours)															
Petroleum	3.58	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	3.29
Natural Gas	8.32	9.93	10.26	10.99	11.88	12.79	13.64	14.46	15.40	16.34	17.21	18.06	18.80	19.55	20.28
Coal	7.12	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73
Other 5/ Total	27.17 46.19	28.98 48.92	29.29 49.57	30.96 51.97	32.58 54.47	33.69 56.50	34.46 58.11	35.18 59.66	36.13 61.55	37.36 63.72	38.63 65.85	39.99 68.06	41.42 70.23	42.68 72.24	43.70 73.99
Disposition															
Sales to the Grid	2.20	2.27	2.59	4.03	5.53	6.75	7.71	8.64	9.78	11.08	12.36	13.69	14.99	16.20	17.24
Generation for Own Use	43.98	46.66	46.98	47.94	48.94	49.75	50.39	51.01	51.77	52.64	53.49	54.37	55.24	56.05	56.75
Thermal Output (trillion Btu)	836.4	804.3	810.5	838.0	865.0	884.3	898.0	911.1	927.9	948.9	970.4	993.2	1016.8	1037.9	1055.1
Energy Input (trillion Btu)															
Petroleum	115.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
Natural Gas	254.1	261.4	264.2	270.3	277.6	285.2	292.1	298.9	306.6	314.3	321.3	328.3	334.3	340.3	346.3
Coal	230.8	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
Other 5/ Total	1035.3 1635.3	1092.9 1678.2	1103.7 1691.8	1157.1 1751.3	1208.7 1810.2	1244.3 1853.4	1268.6 1884.7	1291.8 1914.5	1322.1 1952.6	1361.4 1999.5	1401.8 2047.1	1445.2 2097.4	1490.8 2149.0	1531.2 2195.5	1563.6 2233.7
Efficiency 6/ Power-to-Heat Ratio 7/	0.608 0.188	0.579 0.208	0.579 0.209	0.580 0.212	0.581 0.215	0.581 0.218	0.582 0.221	0.582 0.223	0.583 0.226	0.583 0.229	0.583 0.232	0.584 0.234	0.584 0.236	0.585 0.237	0.585 0.239

Table 26. Paper Industry Energy Consumption

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	207.93	211.48	214.92	217.50	220.05	222.42	224.93	227.69	230.28	233.22	1.8%
<b>Energy Consumption (trillion Btu)</b>											
Residual Oil	122.7	122.5	122.2	121.9	122.0	122.7	122.2	121.9	121.8	121.8	0.0%
Distillate Oil	9.2	9.2	9.1	9.1	9.2	9.2	9.2	9.2	9.3	9.3	0.5%
Liquefied Petroleum Gas	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.1	0.5%
Petroleum Subtotal	137.8	137.6	137.3	137.0	137.2	138.0	137.4	137.2	137.1	137.2	0.0%
Natural Gas	578.6	586.1	595.2	603.2	610.9	617.0	625.2	633.5	641.8	650.7	0.9%
Steam Coal	242.8	242.8	242.7	242.7	242.6	242.6	242.5	242.5	242.5	242.4	0.0%
Renewables	1566.1	1595.9	1624.9	1647.6	1671.1	1694.1	1718.1	1744.3	1769.4	1797.4	2.0%
Purchased Electricity	233.0	234.3	235.2	234.9	234.7	234.6	234.4	234.7	234.6	235.0	0.5%
Total	2758.2	2796.7	2835.3	2865.4	2896.6	2926.2	2957.8	2992.2	3025.4	3062.6	1.4%
<b>Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)</b>											
Residual Oil	0.59	0.58	0.57	0.56	0.55	0.55	0.54	0.54	0.53	0.52	-1.8%
Distillate Oil	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.3%
Liquefied Petroleum Gas	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.2%
Petroleum Subtotal	0.66	0.65	0.64	0.63	0.62	0.62	0.61	0.60	0.60	0.59	-1.7%
Natural Gas	2.78	2.77	2.77	2.77	2.78	2.77	2.78	2.78	2.79	2.79	-0.8%
Steam Coal	1.17	1.15	1.13	1.12	1.10	1.09	1.08	1.07	1.05	1.04	-1.8%
Renewables	7.53	7.55	7.56	7.58	7.59	7.62	7.64	7.66	7.68	7.71	0.2%
Purchased Electricity	1.12	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	-1.2%
Total	13.27	13.22	13.19	13.17	13.16	13.16	13.15	13.14	13.14	13.13	-0.4%
Carbon Dioxide Emissions 2/ (million metric tons)	106.3	106.9	107.4	107.7	108.1	108.6	109.2	110.0	110.4	111.1	0.4%
<b>Combined Heat and Power 4/ Generating Capacity (gigawatts)</b>											
Petroleum	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Natural Gas	3.47	3.58	3.71	3.83	3.97	4.09	4.22	4.35	4.48	4.63	3.7%
Coal	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	N/A
Other 5/	6.67	6.85	7.03	7.17	7.31	7.45	7.60	7.76	7.92	8.09	3.1%
Total	11.76	12.05	12.36	12.63	12.91	13.17	13.45	13.74	14.03	14.34	2.8%
<b>Net Generation (billion kilowatthours)</b>											
Petroleum	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	N/A
Natural Gas	21.08	21.88	22.81	23.76	24.77	25.68	26.63	27.59	28.62	29.68	4.9%
Coal	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	N/A
Other 5/	44.67	45.74	46.78	47.60	48.45	49.27	50.14	51.08	51.99	52.99	2.7%
Total	75.75	77.63	79.61	81.38	83.23	84.97	86.79	88.68	90.61	92.68	2.8%
<b>Disposition</b>											
Sales to the Grid	18.30	19.43	20.62	21.68	22.79	23.83	24.92	26.06	27.22	28.46	11.6%
Generation for Own Use	57.45	58.20	58.99	59.70	60.44	61.14	61.86	62.62	63.40	64.22	1.4%
Thermal Output (trillion Btu)	1071.8	1090.0	1108.1	1122.7	1137.8	1152.4	1167.6	1184.0	1199.9	1217.4	1.8%
<b>Energy Input (trillion Btu)</b>											
Petroleum	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	N/A
Natural Gas	352.7	359.2	366.6	374.2	382.2	389.5	397.0	404.5	412.6	420.8	2.1%
Coal	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	N/A
Other 5/	1594.5	1628.8	1662.1	1688.2	1715.3	1741.6	1769.3	1799.3	1828.2	1860.3	2.3%
Total	2271.1	2311.8	2352.7	2386.3	2421.4	2455.0	2490.2	2527.8	2564.6	2605.0	1.9%
Efficiency 6/	0.586	0.586	0.586	0.587	0.587	0.587	0.588	0.588	0.588	0.589	0.1%
Power-to-Heat Ratio 7/	0.241	0.243	0.245	0.247	0.250	0.252	0.254	0.256	0.258	0.260	1.0%

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 27. Bulk Chemical Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Value of Shipments (billion 1996 dollars)	194.04	188.96	186.48	194.05	199.51	204.04	209.10	213.11	215.41	218.25	222.35	226.07	230.64
Energy Consumption (trillion Btu)													
Heat and Power													
Residual Oil	39.5	29.7	33.9	34.3	34.1	34.1	34.9	35.7	34.9	34.6	35.7	37.0	38.3
Distillate Oil	2.0	1.6	2.4	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.5	2.6
Liquefied Petroleum Gas	38.8	43.0	53.4	44.4	45.1	44.3	45.4	46.6	44.9	44.1	45.6	48.3	50.5
Petroleum Coke	319.9	283.3	300.5	306.9	309.4	312.4	319.8	326.2	322.7	321.8	329.7	338.3	347.2
Other Petroleum 2/	287.2	254.4	269.8	275.5	277.8	280.5	287.1	292.9	289.7	288.9	295.9	303.7	311.7
Petroleum Subtotal	687.3	612.0	660.0	663.1	668.5	673.4	689.3	703.7	694.5	691.7	709.3	729.7	750.4
Natural Gas	1640.6	1650.2	1554.6	1631.6	1673.7	1705.7	1730.8	1746.7	1772.4	1797.0	1811.1	1818.7	1833.0
Steam Coal	232.1	233.0	231.6	232.8	233.1	233.2	233.4	233.2	232.6	232.1	232.0	231.8	231.9
Purchased Electricity	459.1	438.2	437.2	453.0	464.0	474.0	486.0	495.0	497.5	502.1	511.0	518.9	529.1
Total Heat and Power	3019.1	2933.5	2883.4	2980.5	3039.3	3086.2	3139.4	3178.6	3197.0	3222.9	3263.5	3299.1	3344.5
Feedstock													
Liquefied Petroleum Gas	1674.7	1627.4	1602.4	1661.4	1700.1	1731.2	1766.6	1793.5	1806.8	1824.7	1852.7	1877.8	1909.6
Petrochemical Feedstocks	1368.7	1329.3	1307.8	1355.9	1387.9	1413.8	1443.2	1465.3	1476.3	1490.9	1513.6	1533.9	1559.6
Natural Gas	599.4	581.8	540.8	542.5	552.2	560.4	568.6	572.2	572.9	575.4	578.6	582.4	586.5
Total Feedstocks	3642.9	3538.5	3451.0	3559.8	3640.2	3705.4	3778.4	3831.1	3856.0	3890.9	3944.9	3994.0	4055.7
Total	6662.0	6472.0	6334.3	6540.4	6679.5	6791.6	6917.8	7009.7	7053.0	7113.8	7208.4	7293.2	7400.2
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Heat and Power													
Residual Oil	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
Distillate 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 Gas	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Petroleum Coke	1.6	1.5	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Other Petroleum	1.5	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.4
Petroleum Subtotal	3.5	3.2	3.5	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3
Natural Gas	8.5	8.7	8.3	8.4	8.4	8.4	8.3	8.2	8.2	8.2	8.1	8.0	7.9
Steam Coal	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0
Purchased Electricity	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Total Heat and Power	15.6	15.5	15.5	15.4	15.2	15.1	15.0	14.9	14.8	14.8	14.7	14.6	14.5
Feedstock													
Liquefied Petroleum Gas	8.6	8.6	8.6	8.6	8.5	8.5	8.4	8.4	8.4	8.4	8.3	8.3	8.3
Petrochemical Feedstocks	7.1	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
Natural Gas	3.1	3.1	2.9	2.8	2.8	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.5
Total Feedstocks	18.8	18.7	18.5	18.3	18.2	18.2	18.1	18.0	17.9	17.8	17.7	17.7	17.6
Total	34.3	34.3	34.0	33.7	33.5	33.3	33.1	32.9	32.7	32.6	32.4	32.3	32.1
Carbon Dioxide Emissions 3/ (million metric tons)	304.6	292.7	288.3	295.1	301.4	306.8	313.0	317.0	318.4	320.5	324.4	328.1	332.6
Combined Heat and Power 4/ 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	7.20	7.26	7.29	7.39	7.53	7.67	7.80	7.94	8.10	8.27	8.43	8.58	8.71
Coal	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
Other 5/	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Total	7.97	8.04	8.07	8.18	8.31	8.45	8.59	8.72	8.88	9.06	9.21	9.36	9.50
Net Generation (billion kilowatthours)													

Table 27. Bulk Chemical Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Petroleum	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
Natural Gas	43.71	41.77	41.97	42.74	43.74	44.79	45.77	46.76	47.98	49.26	50.40	51.51	52.52
Coal	3.00	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
Other 5/	4.93	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33
Total	51.71	51.27	51.47	52.24	53.24	54.29	55.28	56.27	57.49	58.76	59.90	61.02	62.02
Disposition													
Sales to the Grid	8.67	8.49	8.60	9.03	9.63	10.26	10.85	11.45	12.18	12.95	13.63	14.30	14.90
Generation for Own Use	43.04	42.78	42.87	43.21	43.61	44.03	44.42	44.82	45.31	45.82	46.27	46.72	47.12
Thermal Output (trillion Btu)	293.6	263.7	264.5	266.8	269.7	272.6	275.3	278.0	281.3	284.7	287.7	290.7	293.3
Energy Input (trillion Btu)													
Petroleum	2.6	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Natural Gas	587.6	548.9	550.8	557.8	566.5	575.5	584.0	592.6	603.0	613.9	623.6	633.1	641.6
Coal	103.6	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1
Other 5/	98.4	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
Total	792.2	767.1	769.1	776.1	784.8	793.9	802.4	810.9	821.4	832.3	841.9	851.4	859.9
Efficiency 6/	0.593	0.572	0.572	0.573	0.575	0.577	0.578	0.580	0.581	0.583	0.584	0.586	0.587
Power-to-Heat Ratio 7/	0.601	0.663	0.664	0.668	0.674	0.680	0.685	0.690	0.697	0.704	0.710	0.716	0.722

Table 27. Bulk Chemical Industry Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	232.51	235.58	239.87	244.38	248.41	252.20	255.80	258.34	261.64	265.17	268.36	272.01	1.6%
Energy Consumption (trillion Btu)													
Heat and Power													
Residual Oil	38.7	39.8	40.1	40.5	40.7	41.0	41.8	42.9	42.8	42.9	43.3	43.8	1.7%
Distillate Oil	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.8	2.9	2.9	3.0	3.0	2.6%
Liquefied Petroleum Gas	51.7	53.4	53.6	54.0	53.9	54.4	55.9	58.5	57.8	57.9	58.5	59.5	1.4%
Petroleum Coke	349.1	355.2	359.5	365.1	368.8	373.2	379.2	385.7	387.9	391.5	395.5	400.6	1.5%
Other Petroleum 2/	313.4	318.9	322.7	327.7	331.1	335.0	340.4	346.2	348.2	351.5	355.0	359.6	1.5%
Petroleum Subtotal	755.5	770.0	778.7	790.1	797.1	806.3	820.0	836.2	839.6	846.7	855.3	866.5	1.5%
Natural Gas	1837.6	1844.6	1873.2	1905.3	1939.6	1969.1	1992.7	2002.3	2033.8	2063.8	2090.2	2118.0	1.1%
Steam Coal	231.5	231.3	231.5	231.7	231.8	231.9	231.9	231.8	231.8	231.9	231.8	231.9	0.0%
Purchased Electricity	531.3	537.1	545.2	554.1	560.8	567.3	573.2	577.2	581.9	587.4	591.8	597.5	1.4%
Total Heat and Power	3356.0	3383.1	3428.5	3481.3	3529.3	3574.5	3617.8	3647.4	3687.2	3729.8	3769.1	3813.9	1.1%
Feedstock													
Liquefied Petroleum Gas	1919.8	1939.7	1969.2	2003.5	2034.6	2063.8	2091.6	2111.1	2136.7	2164.3	2189.5	2218.2	1.4%
Petrochemical Feedstocks	1567.8	1584.3	1608.5	1634.2	1657.2	1678.8	1699.3	1714.3	1734.2	1755.1	1773.9	1795.6	1.3%
Natural Gas	594.1	601.8	610.7	619.2	627.9	638.2	645.7	656.4	664.5	673.7	683.6	691.3	0.8%
Total Feedstocks	4081.7	4125.8	4188.5	4256.9	4319.7	4380.8	4436.6	4481.8	4535.5	4593.2	4647.0	4705.2	1.2%
Total	7437.7	7508.8	7617.0	7738.1	7849.0	7955.3	8054.3	8129.2	8222.6	8323.0	8416.1	8519.1	1.2%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Heat and Power													
Residual Oil	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%
Distillate 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	1.0%
Liquefied Petroleum Gas	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	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.1%
Other Petroleum	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	-0.1%
Petroleum Subtotal	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	-0.1%
Natural Gas	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	-0.5%
Steam Coal	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	-1.6%
Purchased Electricity	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	-0.2%
Total Heat and Power	14.4	14.4	14.3	14.2	14.2	14.2	14.1	14.1	14.1	14.1	14.0	14.0	-0.4%
Feedstock													
Liquefied Petroleum Gas	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	-0.2%
Petrochemical Feedstocks	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.6	6.6	6.6	6.6	6.6	-0.3%
Natural Gas	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	-0.8%
Total Feedstocks	17.6	17.5	17.5	17.4	17.4	17.4	17.3	17.3	17.3	17.3	17.3	17.3	-0.3%
Total	32.0	31.9	31.8	31.7	31.6	31.5	31.5	31.5	31.4	31.4	31.4	31.3	-0.4%
Carbon Dioxide Emissions 3/ (million metric tons)	333.6	336.5	341.1	346.2	350.4	354.9	359.1	362.5	366.7	371.6	375.4	380.0	1.1%
Combined Heat and Power 4/ 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	0.3%
Natural Gas	8.85	8.98	9.14	9.29	9.48	9.67	9.87	10.05	10.24	10.43	10.65	10.86	1.8%
Coal	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	N/A
Other 5/	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	N/A
Total	9.63	9.77	9.92	10.08	10.27	10.46	10.66	10.83	11.02	11.22	11.43	11.64	1.6%
Net Generation (billion kilowatthours)													

Table 27. Bulk Chemical Industry Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	0.3%
Natural Gas	53.53	54.51	55.64	56.78	58.17	59.56	61.02	62.32	63.72	65.13	66.69	68.26	2.2%
Coal	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	N/A
Other 5/	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	N/A
Total	63.03	64.01	65.15	66.29	67.67	69.06	70.53	71.82	73.22	74.64	76.19	77.76	1.8%
Disposition													
Sales to the Grid	15.51	16.10	16.78	17.46	18.29	19.13	20.01	20.78	21.62	22.47	23.40	24.35	4.7%
Generation for Own Use	47.52	47.92	48.37	48.83	49.38	49.94	50.52	51.04	51.60	52.16	52.79	53.42	1.0%
Thermal Output (trillion Btu)	295.9	298.4	301.3	304.2	307.6	310.9	314.4	317.5	320.7	323.9	327.4	330.8	1.0%
Energy Input (trillion Btu)													
Petroleum	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.3%
Natural Gas	650.1	658.4	667.9	677.4	688.9	700.4	712.5	723.1	734.5	745.9	758.4	771.0	1.5%
Coal	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	N/A
Other 5/	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	N/A
Total	868.5	876.7	886.2	895.8	907.3	918.8	930.8	941.4	952.8	964.3	976.8	989.3	1.1%
Efficiency 6/	0.588	0.590	0.591	0.592	0.593	0.595	0.596	0.598	0.599	0.600	0.601	0.603	0.2%
Power-to-Heat Ratio 7/	0.727	0.732	0.738	0.744	0.751	0.758	0.765	0.772	0.779	0.786	0.794	0.802	0.8%

Table 27. Bulk Chemical 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 28. Glass Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Value of Shipments (billion 1996 dollars)	24.53	25.34	25.52	26.50	27.73	28.64	29.75	30.45	31.43	32.83	34.06	35.11	36.29
Energy Consumption (trillion Btu)													
Residual Oil	2.5	1.6	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3
Distillate 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 Gas	0.0	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	2.5	1.6	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3
Natural Gas	144.1	149.0	146.7	150.7	154.7	157.3	160.4	161.6	164.2	168.3	171.5	173.8	176.5
Steam Coal	10.2	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Purchased Electricity	40.2	40.9	41.8	42.6	44.0	45.1	46.5	47.4	48.4	50.2	51.7	53.0	54.6
Total	197.1	203.0	201.8	206.6	212.2	215.9	220.4	222.5	226.1	232.0	236.9	240.6	244.9
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.10	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06
Distillate 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 Gas	0.00	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	0.10	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06
Natural Gas	5.88	5.88	5.75	5.69	5.58	5.49	5.39	5.31	5.22	5.13	5.03	4.95	4.86
Steam Coal	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
Purchased Electricity	1.64	1.61	1.64	1.61	1.59	1.58	1.56	1.56	1.54	1.53	1.52	1.51	1.50
Total	8.04	8.01	7.91	7.80	7.65	7.54	7.41	7.31	7.19	7.07	6.95	6.85	6.75
Carbon Dioxide Emissions 2/ (million metric tons)	16.5	16.8	16.9	17.0	17.6	17.9	18.4	18.6	18.9	19.4	19.9	20.2	20.6
Combined Heat and Power 4/ 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal	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
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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Coal	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
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	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Disposition													
Sales to the Grid	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
Generation for own use	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Thermal Output (trillion Btu)	6.0	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Energy Input (trillion Btu)													
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
Natural Gas	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
Coal	10.2	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Other 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	10.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Efficiency 6/	0.675	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696
Power-to-Heat Ratio 7/	0.191	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159

Table 28. Glass Industry Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	37.22	38.15	39.12	40.25	41.16	42.14	43.36	44.29	45.39	46.50	47.37	48.36	2.9%
Energy Consumption (trillion Btu)													
Residual Oil	2.4	2.5	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.9	2.9	2.9	2.6%
Distillate 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	N/A
Liquefied Petroleum Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	2.4	2.5	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.9	2.9	2.9	2.6%
Natural Gas	178.2	180.0	182.7	186.5	189.6	192.9	197.1	199.9	203.6	207.4	210.3	213.7	1.6%
Steam Coal	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	N/A
Purchased Electricity	55.7	56.8	57.8	59.1	60.1	61.2	62.6	63.7	65.0	66.2	67.1	68.2	2.3%
Total	247.7	250.7	254.6	259.7	263.8	268.2	273.8	277.9	282.9	288.0	291.9	296.4	1.7%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.2%
Distillate 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	N/A
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.2%
Natural Gas	4.79	4.72	4.67	4.63	4.61	4.58	4.54	4.51	4.49	4.46	4.44	4.42	-1.2%
Steam Coal	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	-2.8%
Purchased Electricity	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.44	1.43	1.42	1.42	1.41	-0.6%
Total	6.65	6.57	6.51	6.45	6.41	6.36	6.31	6.27	6.23	6.19	6.16	6.13	-1.2%
Carbon Dioxide Emissions 2/ (million metric tons)	20.9	21.1	21.5	21.9	22.2	22.6	23.1	23.5	24.0	24.5	24.8	25.3	1.8%
Combined Heat and Power 4/ 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	N/A
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Coal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
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	N/A
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
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	N/A
Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Coal	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	N/A
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	N/A
Total	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	N/A
Disposition													
Sales to the Grid	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Generation for own use	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	N/A
Thermal Output (trillion Btu)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	N/A
Energy Input (trillion Btu)													
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	N/A
Natural Gas	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	N/A
Coal	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	N/A
Other 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	N/A
Total	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	N/A
Efficiency 6/	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	N/A
Power-to-Heat Ratio 7/	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	N/A

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 29. Cement Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Value of Shipments (billion 1996 dollars)	6.13	6.07	6.08	6.23	6.50	6.60	6.72	6.78	6.91	7.13	7.31	7.46	7.65
Energy Consumption (trillion Btu)													
Residual Oil	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Distillate Oil	1.9	1.8	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.3
Petroleum Coke	31.6	31.0	30.8	31.0	31.8	32.0	32.2	32.2	32.4	33.0	33.4	33.7	34.2
Other Petroleum 2/	21.1	20.7	20.5	20.7	21.2	21.3	21.4	21.3	21.5	21.8	22.0	22.2	22.5
Petroleum Subtotal	56.7	56.0	55.7	56.1	57.5	57.7	58.0	58.0	58.4	59.3	60.0	60.6	61.4
Natural Gas	23.3	23.4	22.6	23.2	23.8	23.9	24.1	24.1	24.3	24.8	25.1	25.3	25.6
Steam Coal	219.1	215.7	214.6	217.1	223.0	224.3	226.2	226.3	228.6	233.0	236.4	239.1	242.6
Metallurgical Coal	7.6	7.5	7.4	7.5	7.6	7.7	7.7	7.7	7.7	7.8	7.9	8.0	8.0
Coal Subtotal	226.7	223.2	222.0	224.5	230.7	232.0	233.9	234.0	236.3	240.8	244.3	247.1	250.7
Purchased Electricity	37.9	37.0	37.2	37.6	38.7	39.0	39.4	39.5	39.9	40.8	41.5	42.1	42.9
Total	344.6	339.5	337.6	341.3	350.6	352.7	355.5	355.6	358.9	365.8	370.9	375.1	380.5
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.34	0.40	0.40	0.39	0.37	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.32
Distillate Oil	0.32	0.29	0.33	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30
Petroleum Coke	5.15	5.11	5.05	4.98	4.90	4.85	4.79	4.74	4.69	4.63	4.57	4.52	4.47
Other Petroleum 2/	3.45	3.42	3.38	3.33	3.27	3.22	3.18	3.15	3.10	3.06	3.02	2.98	2.94
Petroleum Subtotal	9.26	9.22	9.16	9.00	8.85	8.75	8.64	8.55	8.44	8.32	8.21	8.12	8.02
Natural Gas	3.81	3.85	3.72	3.72	3.66	3.63	3.59	3.55	3.52	3.48	3.43	3.39	3.35
Steam Coal	35.76	35.53	35.27	34.87	34.34	34.00	33.67	33.40	33.07	32.68	32.35	32.04	31.73
Metallurgical Coal	1.24	1.23	1.22	1.20	1.18	1.16	1.14	1.13	1.12	1.10	1.08	1.07	1.05
Coal Subtotal	37.00	36.76	36.49	36.07	35.51	35.16	34.81	34.53	34.18	33.78	33.43	33.11	32.78
Purchased Electricity	6.18	6.10	6.12	6.03	5.96	5.92	5.87	5.83	5.78	5.73	5.68	5.65	5.61
Total	56.25	55.93	55.48	54.83	53.99	53.45	52.91	52.47	51.93	51.31	50.76	50.27	49.76
Carbon Dioxide Emissions 3/ (million metric tons)	33.1	32.4	32.3	32.5	33.4	33.7	34.0	34.0	34.3	34.9	35.4	35.8	36.3
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Coal	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
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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Net Generation (billion kilowatthours)													
Petroleum	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
Natural Gas	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
Coal	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
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	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
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	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Thermal Output (trillion Btu)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Energy Input (trillion Btu)													
Petroleum	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Natural Gas	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Coal	5.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Other 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	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
Efficiency 6/	0.718	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713
Power-to-Heat Ratio 7/	0.121	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123

Table 29. Cement Industry Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	7.81	7.84	7.92	8.06	8.29	8.29	8.41	8.46	8.65	8.82	8.94	9.14	1.8%
Energy Consumption (trillion Btu)													
Residual Oil	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	N/A
Distillate Oil	2.3	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.5	1.5%
Petroleum Coke	34.6	34.5	34.6	34.9	35.6	35.5	35.7	35.8	36.5	37.0	37.4	38.0	0.9%
Other Petroleum 2/	22.7	22.5	22.5	22.6	23.0	22.9	23.1	23.1	23.4	23.7	23.9	24.2	0.7%
Petroleum Subtotal	62.0	61.8	61.9	62.3	63.3	63.1	63.6	63.7	64.7	65.6	66.2	67.2	0.8%
Natural Gas	25.9	25.8	26.0	26.4	27.0	27.1	27.4	27.5	28.1	28.6	28.9	29.5	1.0%
Steam Coal	245.7	245.2	245.9	248.3	252.7	251.7	253.4	253.4	257.1	260.0	261.9	265.5	0.9%
Metallurgical Coal	8.1	8.1	8.0	8.1	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.3	0.4%
Coal Subtotal	253.8	253.2	254.0	256.4	260.9	259.8	261.5	261.4	265.3	268.2	270.0	273.8	0.9%
Purchased Electricity	43.5	43.5	43.7	44.2	45.0	44.9	45.2	45.3	46.0	46.6	46.9	47.7	1.1%
Total	385.2	384.2	385.5	389.2	396.3	394.9	397.7	397.9	404.1	409.0	412.1	418.1	0.9%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.31	0.31	0.31	0.30	0.29	0.29	0.29	0.29	0.28	0.27	0.27	0.26	-1.8%
Distillate Oil	0.30	0.30	0.30	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	-0.3%
Petroleum Coke	4.42	4.40	4.37	4.33	4.29	4.27	4.25	4.24	4.22	4.20	4.18	4.16	-0.9%
Other Petroleum 2/	2.90	2.87	2.84	2.81	2.77	2.76	2.74	2.73	2.71	2.69	2.67	2.65	-1.1%
Petroleum Subtotal	7.93	7.88	7.81	7.73	7.64	7.61	7.56	7.53	7.48	7.44	7.40	7.35	-1.0%
Natural Gas	3.31	3.29	3.28	3.27	3.26	3.27	3.26	3.25	3.24	3.24	3.24	3.23	-0.8%
Steam Coal	31.45	31.26	31.05	30.79	30.50	30.35	30.13	29.96	29.71	29.48	29.29	29.06	-0.9%
Metallurgical Coal	1.04	1.03	1.02	1.00	0.99	0.98	0.96	0.95	0.94	0.93	0.92	0.90	-1.3%
Coal Subtotal	32.48	32.29	32.06	31.80	31.49	31.32	31.10	30.92	30.65	30.41	30.21	29.97	-0.9%
Purchased Electricity	5.57	5.55	5.51	5.48	5.43	5.41	5.38	5.35	5.31	5.28	5.25	5.22	-0.7%
Total	49.30	49.00	48.66	48.27	47.82	47.60	47.29	47.06	46.69	46.37	46.09	45.76	-0.9%
Carbon Dioxide Emissions 3/ (million metric tons)	36.8	36.6	36.8	37.1	37.8	37.6	37.9	37.9	38.6	39.1	39.4	40.0	0.9%
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	N/A
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	N/A
Coal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
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	N/A
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Net Generation (billion kilowatthours)													
Petroleum	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Natural Gas	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Coal	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	N/A
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	N/A
Total	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
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	N/A
Generation for Own Use	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Thermal Output (trillion Btu)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	N/A
Energy Input (trillion Btu)													
Petroleum	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	N/A
Natural Gas	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	N/A
Coal	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	N/A
Other 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	N/A
Total	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	N/A
Efficiency 6/	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	N/A
Power-to-Heat Ratio 7/	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	N/A

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 30. Iron and Steel Industries Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Value of Shipments (billion 1996 dollars)	67.40	72.90	72.71	75.48	78.18	78.94	80.25	81.81	82.74	83.82	85.03	85.78	86.11
Energy Consumption (trillion Btu)													
Distillate Oil	4.6	4.8	4.6	4.8	4.9	4.9	4.9	5.0	5.0	5.0	5.0	5.0	5.0
Residual Oil	34.1	20.6	27.0	24.8	24.3	23.0	22.6	22.5	21.3	20.6	20.8	21.1	21.4
Other Petroleum 2/ Petroleum Subtotal	7.9 46.5	7.7 33.1	7.6 39.2	7.5 37.1	7.3 36.5	7.2 35.2	7.1 34.6	7.0 34.5	6.9 33.2	6.8 32.4	6.7 32.5	6.6 32.6	6.4 32.8
Natural Gas	400.9	421.1	400.6	409.2	414.8	413.3	412.9	413.0	412.9	412.6	411.4	408.4	403.9
Metallurgical Coal	695.8	681.9	665.2	650.4	636.7	623.5	610.6	597.9	585.5	573.4	561.4	549.5	537.6
Net Coke Imports	24.4	27.0	21.3	20.3	19.6	17.4	16.1	15.3	13.9	12.8	12.1	10.4	8.2
Steam Coal	63.5	65.9	64.6	63.7	62.9	62.1	61.3	60.5	59.7	59.0	58.3	57.5	56.7
Coal Subtotal	783.7	774.9	751.1	734.4	719.3	702.9	687.9	673.7	659.1	645.2	631.8	617.4	602.5
Purchased Electricity	148.8	160.7	163.9	170.8	178.7	181.2	185.5	190.5	193.3	196.7	200.8	203.6	205.3
Total	1379.9	1389.7	1354.8	1351.5	1349.3	1332.6	1321.0	1311.7	1298.4	1286.8	1276.6	1262.0	1244.5
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Distillate Oil	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Residual Oil	0.51	0.28	0.37	0.33	0.31	0.29	0.28	0.28	0.26	0.25	0.24	0.25	0.25
Other Petroleum 2/ Petroleum Subtotal	0.12 0.69	0.11 0.45	0.10 0.54	0.10 0.49	0.09 0.47	0.09 0.45	0.09 0.43	0.09 0.42	0.08 0.40	0.08 0.39	0.08 0.38	0.08 0.38	0.07 0.38
Natural Gas	5.95	5.78	5.51	5.42	5.31	5.24	5.15	5.05	4.99	4.92	4.84	4.76	4.69
Metallurgical Coal	10.32	9.35	9.15	8.62	8.14	7.90	7.61	7.31	7.08	6.84	6.60	6.41	6.24
Net Coke Imports	0.36	0.37	0.29	0.27	0.25	0.22	0.20	0.19	0.17	0.15	0.14	0.12	0.10
Steam Coal	0.94	0.90	0.89	0.84	0.81	0.79	0.76	0.74	0.72	0.70	0.69	0.67	0.66
Coal Subtotal	11.63	10.63	10.33	9.73	9.20	8.90	8.57	8.23	7.97	7.70	7.43	7.20	7.00
Purchased Electricity	2.21	2.20	2.25	2.26	2.29	2.29	2.31	2.33	2.34	2.35	2.36	2.37	2.38
Total	20.47	19.06	18.63	17.91	17.26	16.88	16.46	16.03	15.69	15.35	15.01	14.71	14.45
Carbon Dioxide Emissions 3/ (million metric tons)	126.1	127.0	124.8	124.1	124.6	123.5	123.0	122.6	121.5	120.7	120.0	118.9	117.5
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
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	0.16	0.16	0.16	0.17	0.18	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24
Coal	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
Other 5/ Total	0.69 1.18	0.88 1.37	0.88 1.37	0.88 1.38	0.88 1.39	0.88 1.40	0.88 1.40	0.88 1.41	0.88 1.42	0.88 1.43	0.88 1.43	0.88 1.44	0.88 1.45
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
Natural Gas	0.81	0.75	0.76	0.80	0.86	0.92	0.98	1.03	1.09	1.16	1.21	1.27	1.31
Coal	1.42	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Other 5/ Total	3.53 5.78	4.75 7.11	4.75 7.12	4.75 7.16	4.75 7.22	4.75 7.28	4.75 7.34	4.75 7.39	4.75 7.45	4.75 7.52	4.75 7.57	4.75 7.63	4.75 7.67
Disposition													
Sales to the Grid	0.56	0.68	0.68	0.68	0.69	0.69	0.70	0.70	0.71	0.72	0.72	0.73	0.73
Generation for Own Use	5.22	6.43	6.44	6.48	6.53	6.59	6.64	6.68	6.74	6.80	6.85	6.90	6.94
Thermal Output (trillion Btu)	41.3	52.2	52.2	52.4	52.5	52.7	52.8	52.9	53.1	53.3	53.4	53.5	53.6
Energy Input (trillion Btu)													
Petroleum	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
Natural Gas	20.2	15.8	15.8	16.2	16.7	17.2	17.7	18.1	18.7	19.2	19.7	20.1	20.5

Table 30. Iron and Steel Industries Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Coal	18.8	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
Other 5/	74.1	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2
Total	113.3	148.8	148.9	149.3	149.8	150.3	150.8	151.2	151.8	152.3	152.8	153.2	153.6
Efficiency 6/	0.538	0.514	0.514	0.514	0.515	0.516	0.516	0.517	0.517	0.518	0.519	0.519	0.520
Power-to-Heat Ratio 7/	0.477	0.465	0.465	0.467	0.469	0.472	0.474	0.476	0.479	0.482	0.484	0.486	0.488

Table 30. Iron and Steel Industries Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	86.70	87.74	88.75	89.64	91.07	91.77	93.07	94.09	95.67	97.38	99.08	101.26	1.4%
Energy Consumption (trillion Btu)													
Distillate Oil	5.0	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.1	5.1	5.2	5.3	0.5%
Residual Oil	21.3	21.4	21.0	20.4	19.6	18.9	18.7	19.0	18.5	18.1	17.8	17.6	-0.7%
Other Petroleum 2/	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4	5.3	5.2	-1.7%
Petroleum Subtotal	32.6	32.6	32.0	31.4	30.5	29.7	29.4	29.6	29.1	28.6	28.3	28.0	-0.7%
Natural Gas	400.8	399.4	400.1	401.0	404.5	405.3	407.7	408.3	412.1	416.6	420.9	427.0	0.1%
Metallurgical Coal	525.8	514.2	502.7	491.6	480.6	470.0	459.6	449.2	439.1	429.2	419.5	410.1	-2.2%
Net Coke Imports	6.6	5.6	4.8	4.0	4.0	3.4	3.6	3.7	4.6	5.9	7.2	9.4	-4.5%
Steam Coal	55.9	55.2	54.5	53.8	53.2	52.5	52.0	51.4	50.9	50.5	50.1	49.7	-1.2%
Coal Subtotal	588.3	575.0	562.0	549.3	537.9	525.9	515.2	504.3	494.6	485.6	476.8	469.2	-2.2%
Purchased Electricity	207.6	211.2	214.4	217.4	221.7	224.1	228.2	231.8	236.7	241.9	247.0	253.5	2.0%
Total	1229.4	1218.2	1208.5	1199.1	1194.6	1185.0	1180.5	1174.0	1172.6	1172.7	1173.1	1177.7	-0.7%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Distillate Oil	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-1.0%
Residual Oil	0.25	0.24	0.24	0.23	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.17	-2.1%
Other Petroleum 2/	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	-3.1%
Petroleum Subtotal	0.38	0.37	0.36	0.35	0.34	0.32	0.32	0.31	0.30	0.29	0.29	0.28	-2.1%
Natural Gas	4.62	4.55	4.51	4.47	4.44	4.42	4.38	4.34	4.31	4.28	4.25	4.22	-1.4%
Metallurgical Coal	6.06	5.86	5.67	5.48	5.28	5.12	4.94	4.77	4.59	4.41	4.23	4.05	-3.6%
Net Coke Imports	0.08	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.09	-5.9%
Steam Coal	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.49	-2.6%
Coal Subtotal	6.79	6.55	6.33	6.13	5.91	5.73	5.54	5.36	5.17	4.99	4.81	4.63	-3.5%
Purchased Electricity	2.39	2.41	2.42	2.43	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.50	0.6%
Total	14.18	13.88	13.62	13.38	13.12	12.91	12.68	12.48	12.26	12.04	11.84	11.63	-2.1%
Carbon Dioxide Emissions 3/ (million metric tons)	116.3	115.5	114.9	114.2	113.9	113.3	113.1	112.9	113.3	114.0	114.4	115.3	-0.4%
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
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	N/A
Natural Gas	0.24	0.25	0.26	0.26	0.27	0.28	0.29	0.29	0.30	0.31	0.32	0.32	3.1%
Coal	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	N/A
Other 5/	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	N/A
Total	1.45	1.46	1.47	1.47	1.48	1.49	1.50	1.50	1.51	1.52	1.53	1.53	0.5%
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	N/A
Natural Gas	1.36	1.40	1.45	1.50	1.55	1.61	1.67	1.72	1.78	1.83	1.89	1.95	4.2%
Coal	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	N/A
Other 5/	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	N/A
Total	7.72	7.76	7.81	7.86	7.91	7.97	8.03	8.08	8.14	8.19	8.25	8.31	0.7%
Disposition													
Sales to the Grid	0.74	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.79	0.80	0.7%
Generation for Own Use	6.98	7.02	7.06	7.11	7.16	7.21	7.26	7.31	7.36	7.41	7.46	7.52	0.7%
Thermal Output (trillion Btu)	53.7	53.9	54.0	54.1	54.2	54.3	54.5	54.6	54.7	54.8	55.0	55.1	0.2%
Energy Input (trillion Btu)													
Petroleum	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A
Natural Gas	20.9	21.2	21.6	22.0	22.5	22.9	23.4	23.9	24.3	24.7	25.2	25.7	2.1%

Table 30. Iron and Steel Industries Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Coal	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	N/A
Other 5/	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	N/A
Total	153.9	154.3	154.7	155.1	155.6	156.0	156.5	156.9	157.4	157.8	158.3	158.8	0.3%
Efficiency 6/	0.520	0.521	0.521	0.521	0.522	0.523	0.523	0.524	0.524	0.525	0.525	0.526	0.1%
Power-to-Heat Ratio 7/	0.490	0.492	0.494	0.496	0.498	0.500	0.503	0.505	0.507	0.510	0.512	0.515	0.4%

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 31. Aluminum Industry Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Value of Shipments (billion 1996 dollars)	30.23	29.68	27.50	28.14	28.47	30.08	31.23	31.68	31.89	32.07	32.39	32.64	32.89	33.47	34.18
Energy Consumption (trillion Btu)															
Distillate Oil	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	0.4	0.4
Liquefied Petroleum Gas	0.0	0.0	0.0	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	5.3	5.2	5.2	5.1	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.4	4.4	4.3	4.2
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	0.0	0.0
Petroleum Subtotal	5.8	5.7	5.5	5.5	5.4	5.3	5.2	5.2	5.1	5.0	4.9	4.9	4.8	4.7	4.7
Natural Gas	156.4	152.4	142.2	142.3	141.4	144.6	146.2	145.3	143.7	142.1	140.8	139.2	137.5	136.6	136.1
Steam Coal	32.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
Purchased Electricity	218.4	215.0	208.5	206.6	204.2	203.9	202.8	200.7	198.1	195.6	193.4	191.1	188.8	186.8	185.0
Total	413.0	402.7	385.9	384.0	380.7	383.4	383.9	380.8	376.6	372.4	368.7	364.8	360.7	357.8	355.4
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)															
Distillate 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	0.01	0.01
Liquefied Petroleum Gas	0.00	0.00	0.00	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 Coke	0.18	0.18	0.19	0.18	0.18	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.12
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	0.00	0.00
Petroleum Subtotal	0.19	0.19	0.20	0.19	0.19	0.18	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14
Natural Gas	5.17	5.13	5.17	5.06	4.97	4.81	4.68	4.59	4.51	4.43	4.35	4.26	4.18	4.08	3.98
Steam Coal	1.07	1.00	1.08	1.05	1.04	0.99	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.87
Purchased Electricity	7.22	7.25	7.58	7.34	7.17	6.78	6.49	6.33	6.21	6.10	5.97	5.85	5.74	5.58	5.41
Total	13.67	13.57	14.03	13.64	13.37	12.75	12.29	12.02	11.81	11.61	11.38	11.18	10.97	10.69	10.40
Carbon Dioxide Emissions 2/ (million metric tons)	53.7	51.7	50.0	48.7	48.4	48.7	48.7	48.2	47.6	46.9	46.2	45.7	45.0	44.4	44.0
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	0.00	0.00
Natural Gas	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
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	0.39	0.39
Other 5/	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	0.53	0.53
Total	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
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	0.00	0.00
Natural Gas	0.20	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.29
Coal	2.79	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	2.56
Other 5/	1.14	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	1.72
Total	4.12	4.47	4.47	4.48	4.49	4.50	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.57	4.57
Disposition															
Sales to the Grid	1.14	1.72	1.72	1.72	1.72	1.73	1.73	1.73	1.73	1.74	1.74	1.74	1.75	1.75	1.75
Generation for Own Use	2.99	2.75	2.75	2.76	2.76	2.77	2.78	2.78	2.79	2.80	2.80	2.81	2.81	2.82	2.82
Thermal Output (trillion Btu)	3.7	3.5	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9
Energy Input (trillion Btu)															
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	0.0	0.0
Natural Gas	5.8	5.6	5.7	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6
Coal	32.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
Other 5/	11.5	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	17.4
Total	49.9	52.6	52.7	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.4	53.5	53.6	53.7
Efficiency 6/	0.356	0.356	0.356	0.357	0.357	0.358	0.359	0.359	0.360	0.361	0.361	0.362	0.362	0.363	0.363
Power-to-Heat Ratio 7/	3.850	4.360	4.352	4.328	4.294	4.261	4.232	4.206	4.172	4.137	4.110	4.085	4.065	4.045	4.027

Table 31. Aluminum Industry Energy Consum

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments (billion 1996 dollars)	34.82	35.47	36.03	36.29	36.57	36.88	37.27	37.72	38.19	38.73	1.2%
Energy Consumption (trillion Btu)											
Distillate Oil	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2%
Liquefied Petroleum Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Coke	4.2	4.1	4.1	4.0	3.9	3.9	3.9	3.8	3.8	3.7	-1.5%
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.2	4.1	-1.3%
Natural Gas	136.1	136.7	137.1	137.0	136.9	136.8	136.9	137.2	137.6	138.0	-0.4%
Steam Coal	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	N/A
Purchased Electricity	183.2	181.4	179.5	177.3	175.2	173.1	171.1	169.3	167.5	165.8	-1.1%
Total	353.5	352.2	350.8	348.4	346.1	343.9	342.0	340.4	338.8	337.6	-0.8%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)											
Distillate Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Coke	0.12	0.12	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	-2.6%
Other Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	-2.5%
Natural Gas	3.91	3.85	3.81	3.78	3.74	3.71	3.67	3.64	3.60	3.56	-1.6%
Steam Coal	0.85	0.84	0.82	0.82	0.81	0.80	0.80	0.79	0.78	0.77	-1.2%
Purchased Electricity	5.26	5.11	4.98	4.89	4.79	4.69	4.59	4.49	4.38	4.28	-2.3%
Total	10.15	9.93	9.74	9.60	9.46	9.32	9.18	9.02	8.87	8.72	-1.9%
Carbon Dioxide Emissions 2/ (million metric tons)	43.6	43.3	42.9	42.5	42.1	41.8	41.6	41.5	41.2	41.0	-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	N/A
Natural Gas	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	3.6%
Coal	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	N/A
Other 5/	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	N/A
Total	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.1%
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	N/A
Natural Gas	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.39	0.40	3.3%
Coal	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	N/A
Other 5/	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	N/A
Total	4.58	4.59	4.60	4.61	4.62	4.63	4.64	4.65	4.67	4.68	0.2%
Disposition											
Sales to the Grid	1.75	1.76	1.76	1.76	1.77	1.77	1.77	1.78	1.78	1.79	0.2%
Generation for Own Use	2.83	2.83	2.84	2.85	2.86	2.86	2.87	2.88	2.89	2.89	0.2%
Thermal Output (trillion Btu)	3.9	3.9	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.2	0.8%
Energy Input (trillion Btu)											
Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Natural Gas	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	1.3%
Coal	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	N/A
Other 5/	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	N/A
Total	53.7	53.8	53.9	54.0	54.1	54.2	54.3	54.4	54.5	54.6	0.2%
Efficiency 6/	0.364	0.364	0.365	0.365	0.366	0.367	0.367	0.368	0.368	0.369	0.2%
Power-to-Heat Ratio 7/	4.007	3.988	3.964	3.941	3.918	3.899	3.879	3.860	3.839	3.819	-0.6%1

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 32. Other Industrial Sector Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Agriculture</b>													
Distillate Oil	469.3	483.2	478.5	482.0	484.9	489.8	493.2	497.5	502.1	507.3	513.0	519.0	525.7
Liquefied Petroleum Gas	109.6	112.5	111.3	112.1	112.8	114.1	114.9	115.8	116.9	118.1	119.4	120.8	122.4
Motor Gasoline	93.9	96.4	95.4	96.1	96.8	97.8	98.5	99.3	100.3	101.3	102.4	103.6	105.0
Other Petroleum	21.7	22.3	22.1	22.2	22.4	22.6	22.8	23.0	23.2	23.4	23.7	24.0	24.3
Petroleum Subtotal	694.6	714.5	707.3	712.4	716.9	724.3	729.4	735.7	742.5	750.2	758.5	767.4	777.3
Natural Gas	226.2	233.3	231.2	232.9	234.3	236.6	238.3	240.5	242.8	245.4	248.2	251.1	254.4
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	25.5	26.6	26.5	26.8	27.1	27.4	27.7	28.1	28.5	28.9	29.4	29.8	30.4
Purchased Electricity	172.9	177.4	175.5	176.9	178.1	180.2	181.5	183.1	184.9	186.8	189.0	191.3	193.8
Total	1119.3	1151.8	1140.5	1148.9	1156.4	1168.5	1177.0	1187.4	1198.6	1211.3	1225.0	1239.6	1256.0
Value of Shipments (billion 1996 dollars)	281.99	290.21	287.39	290.51	293.44	297.84	300.95	304.55	308.40	312.65	317.23	322.09	327.43
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	3.97	3.97	3.97	3.95	3.94	3.92	3.91	3.90	3.89	3.87	3.86	3.85	3.84
Carbon Dioxide Emissions 1/ (million metric tons)	94.4	96.3	95.4	95.3	96.1	97.3	98.1	98.9	99.8	100.7	101.7	102.8	104.0
<b>Construction</b>													
Distillate Oil	229.7	205.9	196.6	202.1	215.1	219.6	223.3	229.0	236.1	242.5	247.8	251.9	259.6
Motor Gasoline	68.3	61.3	58.5	60.2	64.0	65.4	66.5	68.2	70.3	72.3	73.8	75.1	77.4
Asphalt and Road Oil	1246.6	1117.5	1067.4	1097.3	1167.6	1192.2	1212.4	1243.4	1282.0	1316.8	1345.7	1368.0	1409.5
Petroleum Subtotal	1544.6	1384.7	1322.6	1359.6	1446.7	1477.2	1502.3	1540.6	1588.4	1631.6	1667.4	1695.0	1746.5
Natural Gas	258.7	232.0	221.6	227.8	242.3	247.4	251.6	258.0	266.0	273.2	279.2	283.8	292.4
Purchased Electricity	106.2	95.2	91.0	93.6	99.6	101.8	103.6	106.3	109.6	112.7	115.2	117.2	120.8
Total	1909.5	1711.9	1635.1	1680.9	1788.7	1826.4	1857.5	1904.9	1964.1	2017.5	2061.8	2096.1	2159.8
Value of Shipments (billion 1996 dollars)	887.26	797.01	762.71	785.10	836.33	856.58	874.55	902.05	935.90	966.77	992.88	1013.74	1050.36
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.15	2.15	2.14	2.14	2.14	2.13	2.12	2.11	2.10	2.09	2.08	2.07	2.06
Carbon Dioxide Emissions 1/ (million metric tons)	55.6	49.4	47.3	48.2	51.3	52.5	53.5	54.9	56.5	58.0	59.2	60.1	61.9
<b>Mining</b>													
Residual Oil	52.5	50.5	49.8	50.5	51.5	52.0	52.8	53.1	53.2	53.4	53.6	53.8	54.0
Distillate Oil	198.3	186.6	181.6	185.8	191.0	194.4	197.1	198.9	200.7	202.2	204.0	205.7	207.5
Motor Gasoline	21.4	20.7	20.5	20.8	21.2	21.4	21.7	21.8	21.8	21.9	21.9	22.0	22.1
Other Petroleum	8.5	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.7	8.7	8.7	8.7	8.7
Petroleum Subtotal	280.8	266.2	260.4	265.6	272.2	276.4	280.2	282.7	284.4	286.1	288.2	290.2	292.2
Natural Gas	741.3	741.9	735.1	746.5	762.5	770.8	780.9	788.0	790.6	794.4	799.6	804.9	809.5
Lease and Plant Fuel	1118.17	1352.98	1027.37	1018.10	1083.57	1144.41	1210.57	1276.67	1332.69	1400.16	1419.43	1439.09	1453.44
Steam Coal	141.2	131.3	126.9	131.1	136.7	140.1	141.9	144.0	146.1	148.1	150.6	152.9	155.3
Renewables	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Purchased Electricity	215.0	205.6	201.6	205.7	211.2	214.3	217.3	219.3	220.6	222.0	223.7	225.4	227.2
Total	2497.6	2699.0	2352.5	2368.1	2467.2	2547.1	2632.0	2711.7	2775.5	2851.9	2882.6	2913.6	2938.7
Value of Shipments (billion 1996 dollars)	139.65	134.32	132.54	134.98	138.14	140.19	142.76	144.33	145.14	146.04	147.13	148.25	149.30
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	17.88	20.09	17.75	17.54	17.86	18.17	18.44	18.79	19.12	19.53	19.59	19.65	19.68
Carbon Dioxide Emissions 1/ (million metric tons)	114.3	109.7	107.8	109.1	112.1	114.0	115.7	116.7	117.3	118.0	118.8	119.6	120.4
<b>Metal-Based Durables Consumption</b>													

Table 32. Other Industrial Sector Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residual Oil	5.3	4.5	5.1	5.1	5.1	5.1	5.3	5.4	5.4	5.4	5.6	5.9	6.1
Distillate Oil	25.7	21.6	25.9	24.9	25.8	26.6	27.8	28.9	29.1	29.7	31.1	32.9	34.6
Liquefied Petroleum Gas	13.9	13.5	14.3	13.4	14.5	14.7	15.1	15.6	15.7	16.0	16.5	17.2	18.0
Petroleum Subtotal	44.9	39.6	45.3	43.3	45.4	46.4	48.1	49.8	50.1	51.1	53.3	56.0	58.7
Natural Gas	641.1	642.3	605.3	646.4	672.1	695.1	716.0	731.1	752.5	774.0	793.0	811.2	829.9
Steam Coal	55.9	55.8	55.6	55.8	55.8	55.9	55.9	56.0	56.0	56.1	56.1	56.2	56.2
Renewables	44.3	44.3	44.4	47.0	49.1	51.2	53.3	55.1	57.1	59.2	61.4	63.7	66.1
Purchased Electricity	661.2	648.9	647.0	673.1	697.3	721.8	746.6	766.5	788.0	811.9	837.3	863.6	890.6
Total	1447.4	1430.9	1397.7	1465.6	1519.6	1570.5	1620.0	1658.6	1703.7	1752.2	1801.2	1850.7	1901.5
Value of Shipments (billion 1996 dollars)	1791.04	1780.55	1781.08	1887.25	1972.86	2057.19	2141.31	2213.33	2292.26	2376.32	2464.58	2554.61	2650.15
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	0.81	0.80	0.78	0.78	0.77	0.76	0.76	0.75	0.74	0.74	0.73	0.72	0.72
Carbon Dioxide Emissions 1/ (million metric tons)	169.6	164.3	162.6	166.7	173.2	179.7	186.2	190.6	195.4	200.5	205.8	211.5	216.9
Other Manufacturing Consumption													
Residual Oil	49.7	33.3	40.5	39.8	39.6	39.2	39.8	40.6	39.9	39.8	41.2	42.9	44.5
Distillate Oil	59.1	47.4	57.6	53.9	55.0	55.5	56.7	58.0	57.5	57.9	59.8	62.0	64.3
Liquefied Petroleum Gas	29.7	30.0	35.1	29.6	31.9	31.4	31.8	32.6	31.8	31.7	32.6	34.1	35.5
Petroleum Subtotal	138.5	110.6	133.2	123.3	126.6	126.1	128.3	131.2	129.2	129.4	133.6	139.0	144.3
Natural Gas	1200.1	1202.1	1149.1	1205.3	1239.8	1264.9	1284.1	1298.3	1321.2	1345.8	1364.3	1379.6	1395.5
Steam Coal	229.1	224.9	224.3	225.2	225.9	226.1	226.3	226.3	226.4	226.6	226.9	227.1	227.5
Renewables	280.6	276.8	275.4	283.9	293.0	299.9	306.7	312.6	318.8	326.1	333.5	340.5	347.9
Purchased Electricity	861.4	839.7	842.6	858.1	878.3	893.9	909.1	921.6	933.1	948.8	965.6	981.5	998.3
Total	2709.6	2654.0	2624.6	2695.8	2763.6	2811.0	2854.4	2890.1	2928.6	2976.6	3023.9	3067.8	3113.4
Value of Shipments (billion 1996 dollars)	1182.88	1163.00	1159.21	1195.34	1233.72	1261.74	1288.10	1311.57	1335.77	1364.21	1393.20	1420.55	1449.63
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.29	2.28	2.26	2.26	2.24	2.23	2.22	2.20	2.19	2.18	2.17	2.16	2.15
Carbon Dioxide Emissions 1/ (million metric tons)	260.7	250.8	250.4	251.9	258.4	263.5	268.3	271.3	274.1	277.7	281.4	285.2	288.8
Agriculture, Mining, Construction, Metals Based Durables, and Other Manufacturing:													
Combined Heat and Power 2/ Generating Capacity (gigawatts)													
Petroleum	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
Natural Gas	0.36	0.36	0.38	0.44	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.16	1.24
Coal	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
Other 3/	0.39	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Total	1.38	1.40	1.44	1.50	1.57	1.65	1.73	1.81	1.92	2.02	2.12	2.21	2.30
Net Generation (billion kilowatthours)													
Petroleum	0.23	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Natural Gas	1.17	0.96	1.14	1.57	2.10	2.67	3.23	3.82	4.55	5.29	5.98	6.67	7.27
Coal	1.97	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
Other 3/	2.04	1.97	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Total	5.41	4.83	5.10	5.52	6.05	6.62	7.18	7.77	8.50	9.24	9.93	10.62	11.22
Disposition													
Sales to the Grid	1.57	1.41	1.54	1.76	2.02	2.31	2.59	2.88	3.25	3.62	3.96	4.31	4.61
Generation for Own Use	3.84	3.42	3.55	3.77	4.03	4.31	4.59	4.89	5.25	5.62	5.97	6.31	6.61

Table 32. Other Industrial Sector Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Thermal Output (trillion Btu)	53.3	50.7	52.1	53.7	55.8	57.9	60.0	62.2	64.9	67.5	69.9	72.3	74.3
Energy Input (trillion Btu)													
Petroleum	4.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Natural Gas	19.2	16.7	18.5	22.8	28.1	33.8	39.3	45.1	52.3	59.5	66.1	72.7	78.4
Coal	51.7	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
Other 3/	59.9	49.4	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
Total	135.7	119.2	123.0	127.4	132.7	138.3	143.9	149.7	156.9	164.1	170.7	177.3	182.9
Efficiency 4/	0.529	0.563	0.564	0.570	0.576	0.582	0.588	0.593	0.599	0.604	0.608	0.612	0.616
Power-to-Heat Ratio 5/	0.347	0.325	0.334	0.351	0.370	0.390	0.408	0.426	0.447	0.467	0.485	0.501	0.515

Table 32. Other Industrial Sector Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Agriculture</b>													
Distillate Oil	531.5	535.8	539.6	544.1	549.0	554.7	559.5	565.4	571.0	576.6	583.9	590.6	0.9%
Liquefied Petroleum Gas	123.7	124.7	125.6	126.7	127.9	129.3	130.5	131.9	133.3	134.7	136.4	138.1	0.9%
Motor Gasoline	106.1	107.0	107.7	108.6	109.6	110.8	111.8	113.1	114.3	115.5	117.0	118.4	0.9%
Other Petroleum	24.5	24.8	24.9	25.1	25.4	25.6	25.9	26.2	26.4	26.7	27.1	27.4	0.9%
Petroleum Subtotal	785.9	792.3	797.8	804.5	811.8	820.4	827.7	836.5	845.0	853.4	864.4	874.5	0.9%
Natural Gas	257.2	259.4	261.2	263.4	265.7	268.5	270.8	273.7	276.4	279.0	282.6	285.8	0.9%
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	N/A
Renewables	30.8	31.2	31.5	31.9	32.2	32.6	33.0	33.4	33.8	34.2	34.7	35.2	1.2%
Purchased Electricity	196.0	197.8	199.2	200.9	202.7	204.8	206.6	208.8	210.9	213.0	215.6	218.2	0.9%
Total	1270.0	1280.7	1289.6	1300.6	1312.4	1326.3	1338.1	1352.3	1366.0	1379.7	1397.3	1413.7	0.9%
Value of Shipments (billion 1996 dollars)	332.15	335.96	339.25	343.06	347.21	351.80	355.93	360.64	365.27	369.97	375.69	381.19	1.2%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	3.82	3.81	3.80	3.79	3.78	3.77	3.76	3.75	3.74	3.73	3.72	3.71	-0.3%
Carbon Dioxide Emissions 1/ (million metric tons)	105.0	105.8	106.5	107.4	108.3	109.4	110.4	111.7	113.0	114.4	115.9	117.4	0.9%
<b>Construction</b>													
Distillate Oil	265.4	268.9	272.1	275.8	281.8	283.3	288.8	291.9	298.0	304.0	307.9	312.7	1.8%
Motor Gasoline	79.1	80.2	81.1	82.1	83.9	84.3	86.0	86.9	88.7	90.5	91.6	93.1	1.8%
Asphalt and Road Oil	1441.1	1460.6	1477.1	1496.8	1529.3	1537.4	1567.0	1583.6	1616.2	1648.4	1669.2	1695.0	1.8%
Petroleum Subtotal	1785.6	1809.7	1830.2	1854.6	1895.0	1905.0	1941.8	1962.4	2002.8	2042.9	2068.7	2100.8	1.8%
Natural Gas	298.9	302.9	306.5	310.7	317.4	319.1	325.3	328.8	335.7	342.4	346.8	352.2	1.8%
Purchased Electricity	123.6	125.3	126.8	128.5	131.2	131.8	134.3	135.7	138.4	141.1	142.8	145.0	1.8%
Total	2208.2	2238.0	2263.5	2293.8	2343.7	2355.9	2401.4	2426.9	2476.9	2526.4	2558.4	2598.0	1.8%
Value of Shipments (billion 1996 dollars)	1078.91	1097.35	1113.30	1131.35	1159.60	1167.52	1193.52	1208.71	1237.19	1265.36	1284.03	1306.87	2.2%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.99	-0.3%
Carbon Dioxide Emissions 1/ (million metric tons)	63.2	64.0	64.7	65.6	66.9	67.3	68.6	69.4	70.9	72.5	73.5	74.7	1.8%
<b>Mining</b>													
Residual Oil	54.1	54.4	54.3	54.7	55.7	56.4	56.6	56.5	56.4	57.0	57.7	58.0	0.6%
Distillate Oil	209.4	211.6	213.4	216.1	219.8	222.8	225.1	227.0	229.5	233.3	236.6	239.5	1.1%
Motor Gasoline	22.1	22.2	22.1	22.2	22.7	23.0	23.0	22.9	22.8	23.1	23.3	23.4	0.5%
Other Petroleum	8.7	8.7	8.6	8.6	8.8	8.9	8.9	8.7	8.6	8.7	8.8	8.7	0.2%
Petroleum Subtotal	294.3	296.8	298.4	301.6	307.0	311.1	313.6	315.1	317.4	322.0	326.4	329.7	0.9%
Natural Gas	813.8	819.4	821.0	827.8	844.0	854.4	858.1	857.0	856.8	864.9	875.2	880.5	0.7%
Lease and Plant Fuel	1464.04	1478.11	1480.90	1505.05	1569.44	1629.85	1648.52	1641.81	1638.44	1654.18	1681.31	1691.50	1.0%
Steam Coal	158.1	160.6	163.1	166.1	169.1	171.5	174.0	176.2	178.9	181.8	184.5	187.5	1.6%
Renewables	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.2%
Purchased Electricity	229.0	231.0	232.1	234.4	238.7	241.6	243.2	243.8	244.8	247.8	250.9	253.0	0.9%
Total	2960.2	2987.1	2996.7	3036.0	3129.4	3209.6	3238.4	3235.0	3237.5	3271.8	3319.4	3343.2	0.9%
Value of Shipments (billion 1996 dollars)	150.26	151.62	152.00	153.42	156.85	159.21	160.15	160.26	160.72	162.98	165.39	166.64	0.9%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	19.70	19.70	19.72	19.79	19.95	20.16	20.22	20.19	20.14	20.07	20.07	20.06	0.0%
Carbon Dioxide Emissions 1/ (million metric tons)	121.2	122.2	122.8	124.0	126.2	127.9	128.8	129.2	130.1	132.0	133.7	135.1	0.9%
<b>Metal-Based Durables Consumption</b>													

Table 32. Other Industrial Sector Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residual Oil	6.3	6.5	6.7	6.8	6.9	7.0	7.2	7.5	7.6	7.8	8.0	8.2	2.6%
Distillate Oil	36.2	38.0	38.9	39.9	40.4	41.2	42.6	44.9	45.9	47.2	49.0	50.8	3.8%
Liquefied Petroleum Gas	18.6	19.3	19.8	20.4	20.9	21.3	21.9	22.8	23.4	23.9	24.7	25.5	2.8%
Petroleum Subtotal	61.1	63.8	65.4	67.1	68.3	69.6	71.8	75.2	76.9	79.0	81.6	84.5	3.3%
Natural Gas	850.3	872.2	900.6	933.2	965.9	992.8	1020.9	1044.7	1079.5	1115.3	1151.7	1192.9	2.7%
Steam Coal	56.3	56.4	56.5	56.6	56.6	56.7	56.8	56.8	56.9	57.0	57.1	57.2	0.1%
Renewables	68.6	71.3	74.3	77.5	80.6	83.2	86.2	89.1	92.6	96.2	99.9	104.1	3.8%
Purchased Electricity	917.9	947.1	979.1	1014.5	1048.0	1076.1	1107.6	1138.5	1175.6	1214.0	1253.9	1298.6	3.1%
Total	1954.2	2010.8	2075.7	2148.9	2219.5	2278.4	2343.2	2404.4	2481.5	2561.4	2644.3	2737.3	2.9%
Value of Shipments (billion 1996 dollars)	2750.84	2857.72	2974.32	3102.70	3225.46	3329.91	3446.48	3561.06	3697.87	3838.87	3987.53	4153.34	3.8%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	0.71	0.70	0.70	0.69	0.69	0.68	0.68	0.68	0.67	0.67	0.66	0.66	-0.9%
Carbon Dioxide Emissions 1/ (million metric tons)	222.5	228.7	236.1	244.3	251.6	258.4	265.9	273.6	283.5	294.2	304.0	315.4	2.9%
Other Manufacturing Consumption													
Residual Oil	45.7	47.2	47.8	48.4	48.7	49.0	49.9	51.6	51.8	52.2	53.0	53.9	2.1%
Distillate Oil	66.1	68.0	68.6	69.3	69.3	69.6	70.9	73.4	74.0	74.8	76.2	77.7	2.2%
Liquefied Petroleum Gas	36.6	37.6	37.8	38.4	39.2	39.4	40.2	41.7	41.7	42.0	42.9	43.7	1.7%
Petroleum Subtotal	148.3	152.8	154.1	156.2	157.2	158.0	161.0	166.7	167.5	169.0	172.1	175.3	2.0%
Natural Gas	1413.1	1432.3	1462.6	1499.2	1539.2	1571.3	1604.5	1626.7	1662.6	1701.2	1740.0	1786.6	1.7%
Steam Coal	227.8	228.2	228.7	229.4	230.2	230.6	231.1	231.4	232.0	232.7	233.4	234.4	0.2%
Renewables	355.3	363.3	372.2	382.3	392.5	400.7	409.9	417.3	426.5	436.6	446.9	459.2	2.2%
Purchased Electricity	1014.0	1031.0	1049.7	1071.1	1092.1	1108.1	1126.4	1141.2	1159.2	1179.3	1199.5	1224.2	1.7%
Total	3158.5	3207.6	3267.4	3338.2	3411.2	3468.7	3532.9	3583.4	3647.8	3718.8	3791.9	3879.6	1.7%
Value of Shipments (billion 1996 dollars)	1478.62	1509.38	1544.08	1582.93	1622.35	1653.36	1688.16	1715.79	1750.03	1787.46	1826.21	1872.52	2.1%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.14	2.13	2.12	2.11	2.10	2.10	2.09	2.09	2.08	2.08	2.08	2.07	-0.4%
Carbon Dioxide Emissions 1/ (million metric tons)	292.2	296.1	301.2	307.1	312.6	317.4	322.9	327.7	334.2	341.6	348.0	356.0	1.5%
Agriculture, Mining, Construction, Metals Based Durables, and Other Manufacturing:													
Combined Heat and Power 2/													
Generating Capacity (gigawatts)													
Petroleum	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	N/A
Natural Gas	1.33	1.42	1.53	1.65	1.79	1.94	2.11	2.27	2.45	2.63	2.83	3.06	9.8%
Coal	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	N/A
Other 3/	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.2%
Total	2.39	2.48	2.59	2.71	2.85	3.00	3.17	3.33	3.50	3.68	3.89	4.12	4.8%
Net Generation (billion kilowatthours)													
Petroleum	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	N/A
Natural Gas	7.90	8.56	9.34	10.18	11.18	12.26	13.45	14.59	15.82	17.10	18.55	20.15	14.1%
Coal	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	N/A
Other 3/	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	0.2%
Total	11.85	12.51	13.29	14.13	15.13	16.21	17.40	18.54	19.77	21.05	22.51	24.11	7.2%
Disposition													
Sales to the Grid	4.92	5.25	5.64	6.06	6.56	7.10	7.70	8.27	8.88	9.51	10.24	11.04	9.4%
Generation for Own Use	6.93	7.26	7.65	8.07	8.57	9.11	9.71	10.28	10.89	11.53	12.26	13.06	6.0%



Table 32. Other Industrial Sector Energy Consumption

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Thermal Output (trillion Btu)	76.4	78.6	81.1	83.8	86.9	90.1	93.7	97.0	100.4	104.0	107.9	112.1	3.5%
Energy Input (trillion Btu)													
Petroleum	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	N/A
Natural Gas	84.3	90.4	97.7	105.3	114.4	124.1	134.8	144.9	155.6	166.7	179.2	192.8	11.2%
Coal	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	N/A
Other 3/	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	0.2%
Total	188.8	195.0	202.2	209.9	219.0	228.7	239.3	249.4	260.1	271.2	283.7	297.3	4.1%
Efficiency 4/	0.619	0.622	0.626	0.629	0.633	0.636	0.639	0.642	0.645	0.648	0.651	0.654	0.6%
Power-to-Heat Ratio 5/	0.529	0.543	0.559	0.575	0.594	0.614	0.634	0.652	0.671	0.691	0.712	0.734	3.6%

Table 32. Other Industrial Sector Energy Consumption

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.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 data based on: EIA, Manufacturing Energy Consumption Survey 1998. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 33. Transportation Sector Energy Use by Mode and Type  
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Energy Use by Mode</b>													
<b>Highway</b>													
Light-Duty Vehicles	15161.1	15575.7	15906.8	16472.8	16956.1	17383.6	17761.0	18145.3	18523.6	18909.9	19286.4	19680.7	20088.4
Automobiles	8876.0	8832.9	8766.0	8824.8	8847.8	8851.9	8868.7	8891.4	8906.8	8939.0	8971.8	9011.9	9058.7
Light Trucks	6259.5	6717.3	7115.4	7622.5	8082.6	8506.0	8866.5	9228.1	9591.0	9945.0	10288.6	10642.6	11003.3
Motorcycles	25.6	25.5	25.4	25.6	25.7	25.7	25.8	25.8	25.9	26.0	26.0	26.2	26.3
Commercial Light Trucks 1/ Buses	583.8	586.5	584.4	605.0	624.7	637.7	648.0	658.6	670.4	683.6	696.8	709.8	724.5
Transit	251.1	238.9	239.8	242.3	244.6	246.6	248.7	250.7	252.8	254.8	256.6	258.2	259.4
Intercity	98.9	94.1	94.5	95.5	96.4	97.2	98.0	98.8	99.6	100.4	101.1	101.7	102.2
School	36.6	34.7	34.8	35.2	35.5	35.8	36.1	36.4	36.7	37.0	37.3	37.5	37.7
Freight Trucks 2/ Medium (1000-26000 pounds)	115.7	110.1	110.5	111.7	112.7	113.6	114.6	115.5	116.5	117.4	118.2	119.0	119.5
Large (> 26000 pounds)	4223.6	4094.3	4105.2	4259.7	4417.7	4547.5	4666.3	4775.2	4893.0	5027.5	5158.6	5284.4	5413.5
	692.1	676.2	675.2	697.6	717.0	729.0	740.1	750.4	763.5	781.1	800.7	821.3	843.8
	3531.5	3418.1	3430.0	3562.1	3700.7	3818.5	3926.2	4024.8	4129.6	4246.4	4358.0	4463.1	4569.7
<b>Non-Highway</b>													
Air 3/	2966.8	2843.5	2720.0	2786.3	2889.5	2993.7	3076.0	3171.1	3254.8	3350.2	3428.5	3522.1	3607.3
General Aviation	181.7	175.8	169.9	173.0	177.8	182.8	186.7	191.2	195.1	199.7	203.4	207.8	211.9
Domestic Air Carriers	1623.7	1559.7	1498.3	1517.1	1542.2	1571.7	1595.6	1635.0	1669.6	1718.5	1753.7	1802.7	1845.1
International Air Carriers	564.6	515.0	498.6	518.9	539.1	559.8	576.9	593.8	609.8	626.1	640.9	657.0	673.3
Freight Carriers	596.8	593.1	553.2	577.4	630.4	679.4	716.8	751.0	780.3	806.0	830.5	854.5	877.1
Water 4/	1414.1	1271.2	1336.8	1348.0	1359.7	1369.1	1378.1	1386.0	1393.0	1400.7	1408.7	1417.2	1426.0
Freight	1111.9	959.8	1022.5	1029.4	1038.4	1045.0	1051.5	1056.6	1060.6	1065.0	1069.9	1075.0	1080.2
Domestic Shipping	338.4	315.8	311.8	317.5	324.9	330.2	335.5	339.4	342.4	345.7	349.5	353.5	357.5
International Shipping	773.5	644.0	710.6	711.9	713.5	714.9	716.0	717.1	718.2	719.3	720.4	721.5	722.6
Recreational Boats	302.2	311.4	314.3	318.6	321.3	324.1	326.6	329.4	332.4	335.7	338.7	342.2	345.9
Rail	616.2	582.1	578.8	588.4	597.8	609.7	616.6	620.1	627.0	632.1	641.3	647.7	654.0
Freight	501.8	468.5	463.2	470.1	477.1	486.7	491.4	492.6	497.2	499.9	506.7	510.7	514.3
Passenger	114.3	113.7	115.7	118.3	120.7	123.0	125.2	127.5	129.8	132.2	134.6	137.1	139.6
Intercity	26.3	25.9	26.3	26.9	27.5	28.0	28.5	29.0	29.5	30.1	30.6	31.2	31.8
Transit	46.2	46.8	47.6	48.7	49.7	50.6	51.6	52.5	53.4	54.4	55.4	56.4	57.5
Commuter	41.8	41.0	41.7	42.7	43.5	44.4	45.2	46.0	46.8	47.7	48.5	49.4	50.4
Lubricants	194.0	200.0	199.0	200.4	200.1	202.8	205.5	208.2	210.4	212.7	215.4	218.4	222.2
Pipeline Fuel Natural Gas	640.8	648.9	677.2	666.2	665.9	663.9	666.5	672.6	676.3	690.0	699.5	710.4	715.6
Military Use	619.5	661.8	716.6	741.7	750.5	752.3	757.6	762.8	767.9	772.9	777.8	782.4	786.8
Aviation	501.7	538.9	583.5	603.9	611.1	612.5	616.8	621.1	625.2	629.3	633.3	637.1	640.7
Residual Fuel Use	18.3	19.5	21.2	21.9	22.2	22.2	22.4	22.5	22.7	22.8	23.0	23.1	23.2
Distillate Fuel Use	99.5	103.4	112.0	115.9	117.2	117.5	118.4	119.2	120.0	120.8	121.5	122.2	122.9
<b>Total</b>	<b>26670.9</b>	<b>26703.1</b>	<b>27064.7</b>	<b>27910.8</b>	<b>28706.5</b>	<b>29406.7</b>	<b>30024.1</b>	<b>30650.6</b>	<b>31269.2</b>	<b>31934.5</b>	<b>32569.6</b>	<b>33231.3</b>	<b>33897.8</b>

Table 33. Transportation Sector Energy Use by Mode and Type  
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Use by Type													
Motor Gasoline	16115.4	16526.4	16821.0	17370.2	17821.5	18219.8	18566.8	18919.9	19268.5	19623.0	19970.0	20334.2	20713.2
Distillate (diesel)	5316.0	5123.0	5165.9	5372.4	5582.8	5764.8	5930.0	6081.8	6245.1	6427.7	6609.4	6783.5	6961.5
Jet Fuel (kerosene & naphtha)	3426.0	3340.0	3261.1	3347.9	3458.3	3564.0	3650.6	3750.0	3837.9	3937.4	4019.6	4117.1	4205.9
Residual Oil	836.0	713.0	775.7	779.3	783.2	786.1	788.9	791.2	793.2	795.4	797.6	799.9	802.3
Aviation Gasoline	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1
Liquefied Petroleum Gas	15.3	19.0	22.6	25.2	37.7	41.6	45.3	49.0	52.6	55.7	58.2	60.8	63.3
Lubricants	194.0	200.0	199.0	200.4	200.1	202.8	205.5	208.2	210.4	212.7	215.4	218.4	222.2
Petroleum Subtotal	25945.2	25963.8	26287.7	27137.7	27925.9	28621.2	29229.2	29842.3	30449.9	31094.0	31712.4	32356.1	33010.4
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	0.5	0.7	0.9	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.0	2.1	2.3
Electricity	73.9	75.4	77.3	79.5	81.6	83.3	84.9	86.5	88.2	89.9	91.6	93.5	95.4
Compressed Natural Gas	10.5	14.2	21.6	26.5	32.1	37.0	42.2	47.7	53.1	58.6	63.8	68.9	73.8
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3
Pipeline Fuel Natural Gas	640.8	648.9	677.2	666.2	665.9	663.9	666.5	672.6	676.3	690.0	699.5	710.4	715.6
Total Consumption	26670.9	26703.1	27064.7	27910.8	28706.5	29406.7	30024.1	30650.6	31269.2	31934.5	32569.6	33231.3	33897.8

Table 33. Transportation Sector Energy Use by Mode and Type  
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Energy Use by Mode</b>													
<b>Highway</b>													
Light-Duty Vehicles	20429.4	20753.0	21066.4	21376.6	21694.4	22012.0	22337.8	22690.0	23049.4	23429.7	23835.5	24280.1	1.9%
Automobiles	9078.0	9091.9	9103.4	9113.1	9126.2	9138.5	9154.2	9205.4	9259.3	9320.3	9388.1	9467.1	0.3%
Light Trucks	11325.0	11634.7	11936.6	12237.1	12541.7	12847.0	13157.1	13457.8	13763.2	14082.4	14420.2	14785.6	3.5%
Motorcycles	26.3	26.4	26.4	26.4	26.5	26.5	26.5	26.7	26.8	27.0	27.2	27.4	0.3%
Commercial Light Trucks 1/	737.6	750.3	763.4	777.5	792.1	803.4	817.1	829.4	844.6	860.6	876.9	895.6	1.9%
Buses	260.0	260.1	260.1	259.8	259.5	259.3	259.3	259.5	259.9	260.5	261.3	262.4	0.4%
Transit	102.4	102.5	102.5	102.4	102.3	102.2	102.2	102.3	102.4	102.6	103.0	103.4	0.4%
Intercity	37.8	37.8	37.8	37.7	37.7	37.7	37.7	37.7	37.7	37.8	37.9	38.1	0.4%
School	119.8	119.9	119.8	119.7	119.6	119.5	119.5	119.6	119.8	120.0	120.4	120.9	0.4%
Freight Trucks 2/	5524.6	5623.1	5725.6	5838.2	5947.0	6038.8	6146.2	6246.8	6372.1	6508.5	6652.9	6819.4	2.2%
Medium (1000-26000 pounds)	865.2	886.9	911.0	937.3	963.7	988.0	1015.1	1041.3	1071.2	1102.3	1134.0	1168.5	2.4%
Large (> 26000 pounds)	4659.4	4736.2	4814.5	4900.9	4983.3	5050.8	5131.1	5205.5	5300.9	5406.3	5518.9	5650.9	2.2%
<b>Non-Highway</b>													
Air 3/	3697.9	3761.4	3819.6	3891.5	3963.3	4031.6	4086.4	4139.9	4188.9	4232.7	4273.3	4304.9	1.8%
General Aviation	216.2	219.2	222.0	225.4	228.8	232.1	234.7	237.2	239.5	241.6	243.6	245.1	1.5%
Domestic Air Carriers	1894.0	1923.4	1946.6	1974.6	1998.6	2021.9	2037.3	2053.1	2064.7	2070.6	2075.6	2073.2	1.2%
International Air Carriers	688.2	699.1	708.9	718.8	727.2	736.0	744.3	751.6	756.4	760.3	762.7	763.5	1.7%
Freight Carriers	899.5	919.7	942.2	972.7	1008.6	1041.6	1070.1	1097.9	1128.3	1160.2	1191.4	1223.2	3.2%
Water 4/	1433.6	1441.5	1448.2	1456.6	1468.0	1477.3	1485.2	1491.4	1499.0	1509.3	1520.1	1529.9	0.8%
Freight	1084.6	1089.3	1092.9	1098.3	1106.4	1112.5	1117.1	1120.1	1124.3	1130.9	1137.7	1143.4	0.8%
Domestic Shipping	360.9	364.5	367.1	371.2	378.2	383.1	386.6	388.4	391.5	397.0	402.6	407.1	1.1%
International Shipping	723.8	724.8	725.9	727.0	728.2	729.4	730.6	731.7	732.8	734.0	735.1	736.3	0.6%
Recreational Boats	349.0	352.1	355.3	358.4	361.6	364.8	368.1	371.3	374.7	378.4	382.3	386.6	0.9%
Rail	659.1	664.5	674.1	680.6	685.6	692.0	698.8	705.5	714.7	725.7	733.6	742.9	1.1%
Freight	517.0	520.0	527.1	531.2	533.7	537.6	541.8	545.8	552.4	560.6	565.8	572.1	0.9%
Passenger	142.1	144.5	147.0	149.4	151.9	154.5	157.0	159.6	162.3	165.0	167.9	170.8	1.8%
Intercity	32.3	32.9	33.4	34.0	34.6	35.1	35.7	36.3	36.9	37.6	38.2	38.9	1.8%
Transit	58.5	59.5	60.5	61.5	62.6	63.6	64.7	65.7	66.8	68.0	69.1	70.3	1.8%
Commuter	51.2	52.1	53.0	53.9	54.8	55.7	56.6	57.6	58.5	59.5	60.6	61.6	1.8%
Lubricants	226.1	229.9	234.0	238.8	243.8	248.6	253.8	258.3	263.1	268.0	273.1	279.0	1.5%
Pipeline Fuel Natural Gas	715.5	721.0	715.8	724.6	774.9	821.8	831.9	827.5	822.9	835.0	852.1	857.8	1.2%
<b>Military Use</b>													
Aviation	643.8	647.2	650.4	653.3	655.9	658.3	660.5	662.5	664.4	666.1	667.7	669.2	0.9%
Residual Fuel Use	23.3	23.5	23.6	23.7	23.8	23.9	24.0	24.0	24.1	24.2	24.2	24.3	0.9%
Distillate Fuel Use	123.5	124.2	124.8	125.3	125.9	126.3	126.7	127.1	127.5	127.8	128.1	128.4	0.9%
<b>Total</b>	<b>34474.6</b>	<b>34999.5</b>	<b>35505.8</b>	<b>36046.6</b>	<b>36634.2</b>	<b>37193.3</b>	<b>37727.7</b>	<b>38261.9</b>	<b>38830.6</b>	<b>39448.2</b>	<b>40098.9</b>	<b>40793.9</b>	<b>1.9%</b>

Table 33. Transportation Sector Energy Use by Mode and Type  
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Use by Type													
Motor Gasoline	21025.0	21319.4	21604.7	21885.4	22175.6	22462.5	22759.6	23082.5	23416.2	23771.9	24151.7	24571.8	1.7%
Distillate (diesel)	7117.8	7262.4	7413.7	7575.5	7731.1	7870.8	8026.5	8173.8	8348.7	8538.1	8734.2	8954.5	2.5%
Jet Fuel (kerosene & naphtha)	4299.6	4366.4	4427.9	4502.6	4577.1	4647.8	4704.9	4760.3	4811.2	4856.8	4899.0	4932.1	1.7%
Residual Oil	804.5	806.6	808.5	810.9	814.1	816.7	818.9	820.6	822.6	825.3	828.1	830.5	0.7%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Liquefied Petroleum Gas	65.7	67.3	68.9	70.8	73.4	75.4	76.8	78.1	79.6	81.2	83.2	84.9	6.7%
Lubricants	226.1	229.9	234.0	238.8	243.8	248.6	253.8	258.3	263.1	268.0	273.1	279.0	1.5%
Petroleum Subtotal	33580.8	34094.1	34599.8	35126.0	35657.3	36164.0	36682.6	37215.7	37783.4	38383.4	39011.4	39694.8	1.9%
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	-9.0%
Ethanol	2.4	2.6	2.7	2.8	3.0	3.0	3.1	3.3	3.4	3.5	3.6	3.8	7.6%
Electricity	97.2	99.1	101.0	102.9	105.0	107.2	109.4	111.6	113.8	116.0	118.4	120.8	2.1%
Compressed Natural Gas	78.2	82.2	85.9	89.4	92.8	95.9	98.9	101.7	104.5	107.3	110.2	113.3	9.5%
Liquid Hydrogen	0.4	0.5	0.7	0.9	1.2	1.6	1.9	2.2	2.6	2.9	3.2	3.5	N/A
Pipeline Fuel Natural Gas	715.5	721.0	715.8	724.6	774.9	821.8	831.9	827.5	822.9	835.0	852.1	857.8	1.2%
Total Consumption	34474.6	34999.5	35505.8	36046.6	36634.2	37193.3	37727.7	38261.9	38830.6	39448.2	40098.9	40793.9	1.9%

Table 33. 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: 2002 values derived using: Energy Information Administration (EIA), Fuel Oil and Kerosene Sales 2001, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/fuel\\_oil\\_and\\_kerosene\\_sales/historical/2001/foks\\_2001.html](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2001/foks_2001.html); EIA, State Energy Data Report 2000, DOE/EIA-0214(2000) (Washington, DC, August 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, and 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.  
Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode  
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Light-Duty Vehicle</b>													
Motor Gasoline	14990.86	15393.62	15696.02	16221.84	16654.35	17043.45	17384.78	17731.74	18071.67	18413.98	18748.00	19097.97	19459.94
Ethanol	0.52	0.69	0.88	0.89	1.06	1.20	1.36	1.53	1.71	1.89	2.03	2.15	2.30
Compressed Natural Gas	9.18	12.27	19.01	22.88	26.89	29.67	32.21	34.78	37.18	39.45	41.69	43.88	46.03
Liquefied Petroleum Gas	7.06	11.23	15.24	17.92	30.46	34.36	37.71	41.05	44.21	46.85	48.89	51.19	53.30
Electricity	1.43	2.07	2.66	3.22	3.70	3.96	4.08	4.22	4.39	4.57	4.76	5.02	5.27
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.24	0.32
Distillate (diesel)	152.05	155.84	172.96	206.09	239.66	270.93	300.85	331.98	364.42	403.06	440.94	480.20	521.19
Total	15161.10	15575.73	15906.79	16472.84	16956.13	17383.58	17761.00	18145.31	18523.64	18909.90	19286.44	19680.65	20088.36
<b>Commercial Light Trucks Gasoline 1/</b>													
	583.83	586.53	584.43	604.97	624.68	637.69	648.05	658.60	670.36	683.59	696.76	709.81	724.53
<b>Freight Trucks 2/</b>													
Motor Gasoline	229.16	225.38	216.68	215.14	211.52	204.74	197.49	190.16	183.99	179.58	176.34	173.97	172.48
Distillate (diesel)	3984.87	3859.24	3878.60	4033.67	4193.72	4328.05	4451.19	4564.19	4684.67	4819.94	4950.87	5075.74	5203.29
Compressed Natural Gas	1.35	1.89	2.55	3.63	5.21	7.37	9.99	12.90	15.97	19.10	22.15	25.04	27.76
Liquefied Petroleum Gas	8.24	7.82	7.37	7.25	7.22	7.29	7.59	7.98	8.41	8.86	9.27	9.64	9.96
Total	4223.62	4094.32	4105.21	4259.69	4417.67	4547.46	4666.26	4775.22	4893.03	5027.49	5158.64	5284.39	5413.49
<b>Freight Rail 3/</b>													
Distillate (diesel)	501.83	468.45	463.16	470.10	477.12	486.68	491.37	492.55	497.20	499.88	506.70	510.65	514.34
Total	501.83	468.45	463.16	470.10	477.12	486.68	491.37	492.55	497.20	499.88	506.70	510.65	514.34
<b>Domestic Shipping</b>													
Distillate (diesel)	241.92	223.99	221.16	225.20	230.44	234.15	237.91	240.72	242.81	245.18	247.90	250.69	253.55
Residual Oil	96.44	91.85	90.69	92.34	94.49	96.01	97.55	98.70	99.56	100.53	101.65	102.79	103.97
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
Total	338.36	315.84	311.85	317.54	324.93	330.16	335.46	339.42	342.37	345.71	349.55	353.48	357.52
<b>International Shipping</b>													
Distillate (diesel)	52.22	42.35	46.73	46.81	46.92	47.01	47.09	47.16	47.23	47.30	47.37	47.45	47.52
Residual Oil	721.27	601.61	663.88	665.06	666.56	667.85	668.93	669.99	670.98	672.00	673.02	674.05	675.12
Total	773.49	643.96	710.61	711.88	713.48	714.86	716.02	717.15	718.21	719.30	720.39	721.49	722.64
<b>Air Transportation</b>													
Jet Fuel	2924.33	2801.11	2677.66	2743.96	2847.23	2951.44	3033.77	3128.88	3212.69	3308.08	3386.33	3480.01	3565.20
Aviation Gasoline	42.48	42.41	42.35	42.30	42.26	42.23	42.20	42.18	42.16	42.14	42.13	42.12	42.11
Total	2966.81	2843.51	2720.00	2786.26	2889.49	2993.66	3075.97	3171.06	3254.85	3350.23	3428.46	3522.13	3607.31
<b>Miscellaneous Transportation</b>													
<b>Military Use</b>													
Jet Fuel	501.67	538.89	583.49	603.93	611.05	612.52	616.83	621.12	625.25	629.31	633.30	637.08	640.67
Residual Fuel	18.28	19.54	21.16	21.90	22.16	22.21	22.37	22.53	22.68	22.82	22.97	23.11	23.24
Distillate	99.50	103.40	111.96	115.88	117.25	117.53	118.36	119.18	119.97	120.75	121.52	122.24	122.93
Total	619.45	661.84	716.61	741.71	750.46	752.26	757.56	762.82	767.90	772.89	777.78	782.43	786.84



Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode  
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Bus Transportation</b>													
Transit Bus (motor gasoline)	4.32	4.38	4.40	4.44	4.48	4.52	4.56	4.60	4.64	4.67	4.70	4.73	4.76
Transit Bus (diesel)	94.58	89.76	90.11	91.04	91.88	92.66	93.43	94.20	94.98	95.75	96.41	96.99	97.47
Intercity Bus (diesel)	36.55	34.69	34.83	35.18	35.51	35.81	36.11	36.41	36.71	37.00	37.26	37.49	37.67
School Bus (motor gasoline)	5.05	5.12	5.14	5.20	5.24	5.29	5.33	5.38	5.42	5.46	5.50	5.54	5.56
School Bus (diesel)	110.60	104.96	105.37	106.46	107.44	108.36	109.25	110.16	111.06	111.96	112.74	113.42	113.98
Total	251.11	238.91	239.85	242.31	244.55	246.64	248.68	250.74	252.80	254.85	256.61	258.17	259.44
<b>Rail Transportation</b>													
Intercity Rail (electricity)	10.14	10.27	10.45	10.69	10.91	11.11	11.31	11.52	11.73	11.94	12.16	12.38	12.61
Intercity Rail (diesel)	16.20	15.60	15.87	16.23	16.56	16.87	17.18	17.49	17.81	18.13	18.46	18.81	19.16
Transit Rail (electricity)	46.23	46.81	47.62	48.70	49.71	50.65	51.57	52.50	53.45	54.43	55.42	56.44	57.50
Commuter Rail (electricity)	16.08	16.28	16.57	16.94	17.29	17.62	17.94	18.26	18.59	18.93	19.28	19.63	20.00
Commuter Rail (diesel)	25.68	24.73	25.16	25.73	26.26	26.75	27.24	27.73	28.23	28.75	29.27	29.81	30.37
Total	114.32	113.69	115.66	118.28	120.73	123.00	125.24	127.50	129.80	132.19	134.59	137.08	139.64
<b>Recreation Boats</b>													
Lubricants	194.00	200.00	198.97	200.45	200.13	202.79	205.48	208.18	210.38	212.74	215.42	218.43	222.20
Pipeline Fuel Natural Gas	640.78	648.93	677.18	666.18	665.88	663.88	666.47	672.64	676.30	690.04	699.54	710.37	715.64
Total Miscellaneous	2121.88	2174.73	2262.61	2287.56	2303.01	2312.63	2330.02	2351.31	2369.56	2398.36	2422.67	2448.71	2469.65
<b>Total Consumption</b>	<b>26670.92</b>	<b>26703.07</b>	<b>27064.66</b>	<b>27910.83</b>	<b>28706.52</b>	<b>29406.72</b>	<b>30024.13</b>	<b>30650.63</b>	<b>31269.23</b>	<b>31934.45</b>	<b>32569.61</b>	<b>33231.31</b>	<b>33897.84</b>

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode  
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Light-Duty Vehicle</b>													
Motor Gasoline	19756.87	20036.45	20305.84	20569.01	20841.26	21113.67	21393.36	21700.20	22014.09	22348.86	22706.84	23101.98	1.8%
Ethanol	2.43	2.57	2.71	2.84	2.97	2.96	3.14	3.25	3.38	3.50	3.64	3.77	7.6%
Compressed Natural Gas	48.03	49.91	51.71	53.45	55.17	56.83	58.45	59.96	61.42	62.85	64.31	65.83	7.6%
Liquefied Petroleum Gas	55.54	56.96	58.39	60.17	62.70	64.70	65.95	67.18	68.55	69.98	71.87	73.35	8.5%
Electricity	5.49	5.80	6.12	6.45	6.99	7.51	8.02	8.54	9.04	9.53	10.06	10.58	7.4%
Liquid Hydrogen	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A
Distillate (diesel)	560.61	600.74	640.90	683.77	724.10	764.72	807.00	848.59	890.32	932.10	975.56	1021.03	8.5%
Total	20429.37	20752.96	21066.38	21376.58	21694.41	22011.95	22337.82	22689.96	23049.36	23429.70	23835.48	24280.07	1.9%
<b>Commercial Light Trucks Gasoline 1/</b>													
	737.61	750.27	763.38	777.54	792.08	803.39	817.06	829.40	844.59	860.60	876.92	895.63	1.9%
<b>Freight Trucks 2/</b>													
Motor Gasoline	171.16	170.18	169.87	170.11	170.39	170.31	170.80	171.25	172.40	173.76	175.24	177.14	-1.0%
Distillate (diesel)	5313.11	5410.32	5511.05	5621.59	5728.30	5818.74	5924.10	6022.84	6145.59	6279.11	6420.44	6583.31	2.3%
Compressed Natural Gas	30.16	32.25	34.14	35.93	37.59	39.02	40.47	41.74	43.09	44.47	45.88	47.42	15.0%
Liquefied Petroleum Gas	10.20	10.37	10.50	10.59	10.68	10.75	10.87	10.95	11.06	11.20	11.35	11.53	1.7%
Total	5524.63	5623.12	5725.56	5838.22	5946.96	6038.82	6146.23	6246.79	6372.14	6508.53	6652.91	6819.40	2.2%
<b>Freight Rail 3/</b>													
Distillate (diesel)	517.00	519.96	527.11	531.18	533.70	537.57	541.80	545.84	552.40	560.65	565.76	572.14	0.9%
Total	517.00	519.96	527.11	531.18	533.70	537.57	541.80	545.84	552.40	560.65	565.76	572.14	0.9%
<b>Domestic Shipping</b>													
Distillate (diesel)	255.94	258.52	260.32	263.28	268.20	271.71	274.16	275.48	277.62	281.52	285.54	288.72	1.1%
Residual Oil	104.95	106.00	106.74	107.96	109.97	111.41	112.42	112.96	113.84	115.44	117.08	118.39	1.1%
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	N/A
Total	360.89	364.52	367.06	371.24	378.18	383.13	386.58	388.44	391.46	396.96	402.62	407.11	1.1%
<b>International Shipping</b>													
Distillate (diesel)	47.60	47.66	47.73	47.81	47.89	47.96	48.04	48.12	48.19	48.27	48.34	48.42	0.6%
Residual Oil	676.17	677.14	678.15	679.23	680.34	681.42	682.51	683.56	684.64	685.72	686.78	687.84	0.6%
Total	723.76	724.80	725.88	727.04	728.22	729.38	730.55	731.68	732.83	733.99	735.12	736.25	0.6%
<b>Air Transportation</b>													
Jet Fuel	3655.84	3719.27	3777.52	3849.38	3921.22	3989.54	4044.35	4097.78	4146.80	4190.66	4231.23	4262.87	1.8%
Aviation Gasoline	42.10	42.10	42.09	42.09	42.08	42.08	42.08	42.08	42.07	42.07	42.07	42.07	0.0%
Total	3697.94	3761.37	3819.61	3891.47	3963.31	4031.62	4086.42	4139.86	4188.88	4232.73	4273.31	4304.94	1.8%
<b>Miscellaneous Transportation</b>													
<b>Military Use</b>													
Jet Fuel	643.77	647.16	650.36	653.27	655.91	658.31	660.52	662.54	664.40	666.12	667.73	669.22	0.9%
Residual Fuel	23.35	23.47	23.59	23.69	23.79	23.88	23.96	24.03	24.10	24.16	24.22	24.27	0.9%
Distillate	123.52	124.17	124.79	125.35	125.85	126.32	126.74	127.13	127.48	127.81	128.12	128.41	0.9%
Total	790.64	794.80	798.73	802.31	805.55	808.50	811.21	813.69	815.98	818.10	820.06	821.90	0.9%

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode  
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
<b>Bus Transportation</b>													
Transit Bus (motor gasoline)	4.77	4.77	4.77	4.76	4.76	4.75	4.75	4.76	4.77	4.78	4.79	4.81	0.4%
Transit Bus (diesel)	97.68	97.73	97.71	97.62	97.50	97.43	97.43	97.50	97.65	97.87	98.18	98.57	0.4%
Intercity Bus (diesel)	37.75	37.77	37.76	37.73	37.68	37.65	37.65	37.68	37.74	37.82	37.94	38.09	0.4%
School Bus (motor gasoline)	5.57	5.58	5.58	5.57	5.56	5.56	5.56	5.56	5.57	5.59	5.60	5.62	0.4%
School Bus (diesel)	114.23	114.28	114.26	114.16	114.01	113.93	113.93	114.02	114.18	114.45	114.80	115.26	0.4%
Total	260.00	260.12	260.07	259.84	259.51	259.33	259.33	259.52	259.90	260.51	261.32	262.36	0.4%
<b>Rail Transportation</b>													
Intercity Rail (electricity)	12.84	13.06	13.28	13.50	13.73	13.95	14.19	14.42	14.66	14.91	15.17	15.43	1.8%
Intercity Rail (diesel)	19.49	19.82	20.16	20.50	20.84	21.19	21.54	21.90	22.27	22.64	23.03	23.43	1.8%
Transit Rail (electricity)	58.50	59.51	60.51	61.52	62.56	63.60	64.66	65.74	66.83	67.96	69.12	70.33	1.8%
Commuter Rail (electricity)	20.35	20.70	21.05	21.40	21.76	22.12	22.49	22.87	23.25	23.64	24.04	24.46	1.8%
Commuter Rail (diesel)	30.90	31.43	31.96	32.50	33.04	33.59	34.15	34.72	35.30	35.90	36.51	37.15	1.8%
Total	142.08	144.52	146.96	149.42	151.93	154.46	157.03	159.64	162.31	165.05	167.87	170.79	1.8%
<b>Recreation Boats</b>													
Lubricants	226.11	229.89	234.05	238.82	243.85	248.63	253.77	258.29	263.09	268.01	273.12	278.97	1.5%
Pipeline Fuel Natural Gas	715.54	721.01	715.76	724.64	774.93	821.77	831.85	827.47	822.90	835.05	852.12	857.79	1.2%
<b>Total Miscellaneous</b>													
	2483.35	2502.47	2510.86	2533.38	2597.37	2657.46	2681.28	2689.94	2698.92	2725.06	2756.80	2778.37	1.1%
<b>Total Consumption</b>													
	34474.56	34999.47	35505.84	36046.64	36634.23	37193.31	37727.74	38261.90	38830.58	39448.22	40098.91	40793.93	1.9%

Table 34. 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.

N/A = Not applicable.

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

Sources: 2002 compressed natural gas volumes: Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Other 2002 values derived using: EIA, Fuel Oil and Kerosene Sales 2001, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/fuel\\_oil\\_and\\_kerosene\\_sales/historical/2001/foks\\_2001.html](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2001/foks_2001.html); EIA, State Energy Data Report 2000, DOE/EIA-0214(2000) (Washington, DC, August 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, and 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type  
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	14851.50	15208.69	15471.03	15933.58	16289.40	16588.82	16811.15	17040.32	17260.68	17479.92	17690.22	17917.48	18157.59
TDI Diesel ICE	152.05	155.84	172.96	206.09	239.66	270.93	300.85	331.98	364.42	403.06	440.94	480.20	521.19
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.68	0.62	0.50	0.46	0.39	0.38	0.36	0.34	0.31	0.29	0.27	0.24	0.22
Methanol 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	150.05	214.90	276.30	341.51	405.94	463.08	543.58	623.67	701.42	781.57	860.27	937.53	1013.59
Ethanol ICE	0.21	0.25	0.28	0.32	0.36	0.39	0.43	0.46	0.50	0.54	0.58	0.63	0.67
Total Alcohol	150.95	215.77	277.09	342.29	406.68	463.85	544.36	624.47	702.23	782.40	861.11	938.40	1014.48
Natural Gas Technology													
CNG ICE	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26
CNG Bi-fuel	16.14	21.81	27.13	32.70	38.46	42.46	46.10	49.80	53.26	56.54	59.76	62.92	66.03
LPG ICE	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13
LPG Bi-fuel	30.20	46.84	62.40	79.14	121.32	136.16	149.14	162.20	174.01	184.78	194.91	204.90	214.80
Total Natural Gas Technology	46.64	68.96	89.85	112.17	160.13	178.97	195.60	212.37	227.65	241.70	255.05	268.21	281.22
Electric Technology													
Electric Vehicle	1.43	2.07	2.66	3.22	3.70	3.96	4.08	4.22	4.39	4.57	4.76	5.02	5.27
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.28	4.48	6.80
Electric-Gasoline Hybrid	0.96	1.83	3.60	24.93	56.29	89.27	122.45	157.27	196.83	236.80	280.03	323.92	368.98
Total Electricity	2.39	3.90	6.26	28.14	59.98	93.23	126.53	161.49	201.22	242.49	287.07	333.42	381.05
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	0.05	0.09	0.13	0.24	0.32
Total Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.24	0.32
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	14990.86	15393.62	15696.02	16221.84	16654.35	17043.45	17384.78	17731.74	18071.67	18413.98	18748.00	19097.97	19459.94
Distillate (diesel)	152.05	155.84	172.96	206.09	239.66	270.93	300.85	331.98	364.42	403.06	440.94	480.20	521.19
Methanol	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ethanol	0.52	0.69	0.88	0.89	1.06	1.20	1.36	1.53	1.71	1.89	2.03	2.15	2.30
Compressed Natural Gas	9.18	12.27	19.01	22.88	26.89	29.67	32.21	34.78	37.18	39.45	41.69	43.88	46.03
Liquefied Petroleum Gas	7.06	11.23	15.24	17.92	30.46	34.36	37.71	41.05	44.21	46.85	48.89	51.19	53.30
Electricity	1.43	2.07	2.66	3.22	3.70	3.96	4.08	4.22	4.39	4.57	4.76	5.02	5.27
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.24	0.32

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type  
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	18340.34	18510.93	18676.45	18841.31	19018.84	19201.16	19395.65	19620.32	19855.62	20113.34	20395.54	20714.43	1.4%
TDI Diesel ICE	560.61	600.74	640.90	683.77	724.10	764.72	807.00	848.59	890.32	932.10	975.56	1021.03	8.5%
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.19	0.17	0.15	0.13	0.11	0.09	0.10	0.08	0.07	0.06	0.05	0.04	-10.9%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	1084.13	1150.88	1214.47	1275.43	1334.69	1391.35	1445.91	1498.73	1549.66	1600.12	1650.58	1702.22	9.4%
Ethanol ICE	0.71	0.76	0.80	0.85	0.89	0.94	0.98	1.03	1.09	1.14	1.19	1.25	7.3%
Total Alcohol	1085.03	1151.80	1215.42	1276.41	1335.69	1392.38	1446.99	1499.85	1550.82	1601.32	1651.83	1703.51	9.4%
Natural Gas Technology													
CNG ICE	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	2.1%
CNG Bi-fuel	68.92	71.63	74.23	76.76	79.24	81.64	83.99	86.18	88.29	90.36	92.48	94.68	6.6%
LPG ICE	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.5%
LPG Bi-fuel	223.96	232.56	240.75	248.65	256.36	263.80	271.00	277.70	284.09	290.41	297.02	303.89	8.5%
Total Natural Gas Technology	293.27	304.58	315.37	325.80	335.99	345.83	355.37	364.27	372.77	381.17	389.90	398.97	7.9%
Electric Technology													
Electric Vehicle	5.49	5.80	6.12	6.45	6.99	7.51	8.02	8.54	9.04	9.53	10.06	10.58	7.4%
Electric-Diesel Hybrid	9.74	13.90	18.14	23.11	28.14	33.22	39.59	46.01	52.40	58.71	65.05	71.38	N/A
Electric-Gasoline Hybrid	413.01	456.18	498.28	538.75	578.19	616.05	651.54	685.98	718.87	750.69	781.58	812.09	30.3%
Total Electricity	428.23	475.87	522.54	568.31	613.32	656.77	699.16	740.53	780.31	818.93	856.69	894.06	26.7%
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	N/A
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	N/A
Fuel Cell Hydrogen	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A
Total Fuel Cell	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	19756.87	20036.45	20305.84	20569.01	20841.26	21113.67	21393.36	21700.20	22014.09	22348.86	22706.84	23101.98	1.8%
Distillate (diesel)	560.61	600.74	640.90	683.77	724.10	764.72	807.00	848.59	890.32	932.10	975.56	1021.03	8.5%
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	-9.0%
Ethanol	2.43	2.57	2.71	2.84	2.97	2.96	3.14	3.25	3.38	3.50	3.64	3.77	7.6%
Compressed Natural Gas	48.03	49.91	51.71	53.45	55.17	56.83	58.45	59.96	61.42	62.85	64.31	65.83	7.6%
Liquefied Petroleum Gas	55.54	56.96	58.39	60.17	62.70	64.70	65.95	67.18	68.55	69.98	71.87	73.35	8.5%
Electricity	5.49	5.80	6.12	6.45	6.99	7.51	8.02	8.54	9.04	9.53	10.06	10.58	7.4%
Liquid Hydrogen	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A

Table 35. 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.

N/A = Not applicable.

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 36. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	430.5	411.6	403.7	394.1	399.9	402.8	397.0	392.9	385.7	377.4	372.7	367.6	365.4
TDI Diesel ICE	0.4	0.3	0.4	0.8	0.8	0.8	1.0	1.0	1.0	1.2	1.2	1.2	1.2
Total Conventional	430.9	412.0	404.1	394.9	400.8	403.6	398.0	393.9	386.7	378.6	373.9	368.8	366.6
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	20.6	19.4	19.1	18.1	18.5	18.7	23.1	22.8	22.3	26.1	25.8	25.5	25.3
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	0.1	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-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.7	2.8
Electric-Gasoline Hybrid	0.7	1.1	2.2	12.5	13.2	13.8	14.4	15.0	18.8	18.5	21.9	21.6	22.1
CNG 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
CNG Bi-fuel	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
LPG 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
LPG Bi-fuel	2.4	2.3	2.2	2.1	2.2	2.1	2.1	2.0	1.9	1.9	1.9	1.9	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	0.1
Total Alternatives	24.6	23.5	24.2	33.4	34.7	35.4	40.4	40.6	43.8	48.6	51.8	52.4	52.9
Percent Alternative Car Sales	5.39	5.40	5.65	7.80	7.96	8.07	9.21	9.34	10.18	11.38	12.16	12.43	12.61
Total New Car Sales	455.5	435.5	428.3	428.3	435.4	439.0	438.4	434.5	430.5	427.1	425.6	421.2	419.5
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	368.6	378.7	363.8	369.2	371.6	381.0	371.7	373.0	374.6	374.7	379.1	383.0	388.6
TDI Diesel ICE	17.6	17.3	19.8	30.8	30.4	29.3	28.8	29.6	29.9	34.6	35.0	34.7	36.0
Total Conventional	386.2	395.9	383.6	400.0	402.0	410.3	400.5	402.6	404.4	409.3	414.2	417.6	424.6
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	17.9	18.5	18.1	19.3	20.9	21.4	36.4	36.5	36.7	36.7	37.3	37.8	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	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5
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	0.0	0.0	0.0	9.1	17.1	18.0	17.9	18.5	19.0	19.5	20.3	21.0	21.8
CNG 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
CNG Bi-fuel	1.6	1.7	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9
LPG 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
LPG Bi-fuel	5.4	5.5	5.4	5.7	5.9	6.0	6.1	6.1	6.1	6.2	6.3	6.4	6.5
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	0.1	0.1	0.1	0.3	0.1
Total Alternatives	25.1	25.9	25.3	36.0	45.9	47.6	62.5	63.2	64.2	64.9	66.3	68.0	69.4
Percent Alternative Light Truck Sales	6.11	6.15	6.18	8.25	10.24	10.39	13.49	13.58	13.70	13.69	13.80	14.00	14.05
Total New Truck Sales	411.4	421.9	408.9	436.0	447.9	457.9	463.0	465.9	468.7	474.1	480.5	485.6	494.0



Table 36. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.73	5.77	5.91	8.03	9.12	9.26	11.41	11.53	12.01	12.59	13.03	13.27	13.39
EPACT Legislative Alternative Sales	13.99	14.01	13.55	14.14	14.41	14.61	14.65	14.61	14.57	14.61	14.76	14.85	15.05
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	12.85	19.36	19.50	19.55	27.42	27.58	26.85	36.93	33.30
Total Vehicles Sales	866.8	857.3	837.2	864.3	883.3	896.9	901.3	900.4	899.1	901.3	906.1	906.8	913.5

Table 36. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	361.3	357.7	358.0	360.1	361.7	362.0	361.7	357.3	355.7	355.3	355.6	356.0	-0.6%
TDI Diesel ICE	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	7.4%
Total Conventional	362.5	358.9	359.3	361.4	363.1	363.4	363.1	358.8	357.2	356.9	357.2	357.7	-0.6%
<b>Alternative-Fuel Vehicles</b>													
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	-1.1%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	25.1	24.8	24.7	24.8	24.9	24.9	24.8	24.4	24.2	24.1	24.1	24.1	0.9%
Ethanol ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.8%
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	-0.3%
Electric-Diesel Hybrid	3.4	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	N/A
Electric-Gasoline Hybrid	22.2	22.6	22.6	22.8	23.0	23.0	23.0	22.7	22.6	22.5	22.5	22.5	14.1%
CNG 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	-1.1%
CNG Bi-fuel	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	-0.3%
LPG 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	N/A
LPG Bi-fuel	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	-1.0%
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	N/A
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	N/A
Fuel Cell Hydrogen	0.1	0.2	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	N/A
Total Alternatives	53.3	53.6	53.7	54.1	54.6	54.6	54.5	53.7	53.4	53.3	53.3	53.4	3.6%
Percent Alternative Car Sales	12.82	12.99	13.01	13.02	13.08	13.06	13.05	13.02	13.00	12.99	12.99	12.99	3.9%
Total New Car Sales	415.8	412.5	413.0	415.5	417.7	418.1	417.6	412.5	410.6	410.1	410.6	411.1	-0.3%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	391.3	393.0	399.1	407.0	414.7	421.0	426.5	427.5	432.1	439.1	446.9	456.1	0.8%
TDI Diesel ICE	36.1	36.7	37.6	38.7	39.7	40.8	41.7	42.0	42.4	42.8	43.9	45.2	4.3%
Total Conventional	427.4	429.7	436.7	445.7	454.4	461.8	468.2	469.5	474.5	481.9	490.8	501.3	1.0%
<b>Alternative-Fuel Vehicles</b>													
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	1.5%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	38.9	39.1	39.9	40.9	42.1	43.0	43.8	43.9	44.6	45.6	46.8	48.0	4.2%
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	N/A
Electric Vehicle	0.4	0.7	0.8	0.8	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.4	9.4%
Electric-Diesel Hybrid	0.0	1.2	1.2	1.8	1.9	1.9	3.3	3.3	3.4	3.4	3.5	3.6	N/A
Electric-Gasoline Hybrid	22.5	22.5	22.9	23.1	23.6	24.0	23.6	23.7	23.9	24.3	24.7	25.2	N/A
CNG 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	0.5%
CNG Bi-fuel	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	1.5%
LPG 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	0.7%
LPG Bi-fuel	6.5	6.6	6.7	6.8	7.0	7.1	7.2	7.2	7.3	7.4	7.6	7.7	1.5%
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	N/A
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	N/A
Fuel Cell Hydrogen	0.1	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	N/A
Total Alternatives	70.4	72.3	73.7	75.8	78.7	80.1	82.0	82.3	83.3	84.8	86.8	88.7	5.5%
Percent Alternative Light Truck Sales	14.14	14.41	14.45	14.54	14.77	14.78	14.90	14.91	14.93	14.96	15.02	15.04	4.0%
Total New Truck Sales	497.8	502.0	510.4	521.6	533.1	541.9	550.2	551.8	557.8	566.7	577.6	590.0	1.5%

Table 36. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.54	13.77	13.80	13.87	14.02	14.04	14.10	14.10	14.11	14.13	14.18	14.20	4.0%
EPACT Legislative Alternative Sales	15.12	15.20	15.41	15.70	16.00	16.22	16.42	16.43	16.56	16.78	17.05	17.36	0.9%
ZEVP Legislative Alternative Sales	30.40	45.83	48.52	49.95	71.20	69.97	69.69	70.20	70.14	69.28	73.65	73.64	N/A
Total Vehicles Sales	913.6	914.5	923.5	937.1	950.8	960.0	967.8	964.4	968.4	976.9	988.1	1001.1	0.7%

Table 36. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
New England

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 37. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1232.2	1161.4	1130.4	1099.0	1109.0	1112.8	1094.0	1080.8	1059.1	1034.6	1020.3	1004.8	997.2
TDI Diesel ICE	1.0	0.9	1.1	2.1	2.3	2.2	2.7	2.8	2.7	3.2	3.2	3.2	3.3
Total Conventional	1233.2	1162.3	1131.5	1101.1	1111.3	1115.0	1096.8	1083.6	1061.9	1037.8	1023.5	1008.0	1000.5
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
Methanol 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	58.9	54.8	53.4	50.4	51.3	51.6	63.5	62.9	61.4	71.5	70.6	69.7	69.2
Ethanol 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
Electric Vehicle	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.1	7.3	7.5
Electric-Gasoline Hybrid	2.0	3.0	6.0	34.2	36.1	37.9	39.5	40.8	51.1	50.2	59.4	58.6	59.8
CNG 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
CNG Bi-fuel	1.8	1.7	1.6	1.6	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5
LPG 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
LPG Bi-fuel	7.0	6.4	6.2	6.0	6.0	5.9	5.7	5.5	5.3	5.2	5.1	5.1	5.0
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	0.2
Total Alternatives	70.2	66.3	67.6	92.6	95.7	97.5	110.8	111.3	119.8	132.7	141.1	142.5	143.7
Percent Alternative Car Sales	5.39	5.40	5.64	7.76	7.93	8.04	9.18	9.31	10.14	11.34	12.12	12.39	12.56
Total New Car Sales	1303.4	1228.6	1199.0	1193.7	1207.0	1212.5	1207.6	1194.9	1181.7	1170.6	1164.7	1150.5	1144.2
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1060.2	1072.7	1024.3	1036.2	1032.8	1053.8	1025.1	1027.3	1030.0	1028.6	1039.3	1047.9	1061.5
TDI Diesel ICE	44.5	44.0	49.2	78.6	81.9	79.8	78.4	80.1	80.8	93.5	94.4	93.9	97.2
Total Conventional	1104.8	1116.7	1073.4	1114.8	1114.7	1133.5	1103.5	1107.5	1110.8	1122.1	1133.8	1141.7	1158.7
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
Methanol 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	51.8	52.6	51.2	54.0	58.0	59.2	100.3	100.6	100.8	100.8	102.2	103.4	105.1
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	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	1.2	1.1
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	0.0	0.0	0.0	25.0	47.0	49.4	48.9	50.4	51.8	53.2	55.2	56.9	59.2
CNG 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
CNG Bi-fuel	4.6	4.7	4.5	4.8	4.9	5.0	5.0	5.1	5.1	5.1	5.2	5.2	5.3
LPG 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
LPG Bi-fuel	15.4	15.6	15.0	15.9	16.3	16.6	16.7	16.8	16.9	17.0	17.2	17.4	17.7
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	0.3	0.3	0.3	0.6	0.3
Total Alternatives	72.4	73.5	71.2	100.3	126.8	131.0	171.8	173.6	175.8	177.3	181.0	184.8	188.6
Percent Alternative Light Truck Sales	6.15	6.17	6.22	8.25	10.21	10.36	13.47	13.55	13.66	13.65	13.76	13.93	14.00
Total New Truck Sales	1177.1	1190.1	1144.6	1215.1	1241.5	1264.5	1275.3	1281.1	1286.6	1299.4	1314.7	1326.5	1347.3

Table 37. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Middle Atlantic

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.75	5.78	5.92	8.01	9.09	9.23	11.38	11.51	11.97	12.55	12.99	13.22	13.34
EPACT Legislative Alternative Sales	40.05	39.51	37.93	39.41	39.95	40.34	40.35	40.18	40.01	40.04	40.38	40.57	41.04
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	23.35	35.16	35.42	35.50	49.78	50.05	48.71	66.99	60.38
Total Vehicles Sales	2480.5	2418.8	2343.7	2408.8	2448.4	2477.1	2482.9	2476.0	2468.3	2469.9	2479.4	2477.1	2491.6

Table 37. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	984.6	973.4	972.5	976.3	978.7	977.5	974.4	960.6	954.1	951.0	949.7	948.8	-0.9%
TDI Diesel ICE	3.3	3.3	3.4	3.5	3.6	3.8	3.9	3.9	4.0	4.2	4.3	4.6	7.5%
Total Conventional	987.9	976.7	975.9	979.8	982.4	981.3	978.3	964.5	958.1	955.1	954.1	953.3	-0.9%
<b>Alternative-Fuel Vehicles</b>													
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	-1.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	68.3	67.3	67.2	67.3	67.4	67.1	66.7	65.4	64.8	64.5	64.4	64.2	0.7%
Ethanol ICE	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.1%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.0%
Electric-Diesel Hybrid	9.3	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.3	9.3	9.3	N/A
Electric-Gasoline Hybrid	60.0	60.9	61.0	61.5	61.8	61.8	61.6	60.5	60.1	59.8	59.7	59.5	13.9%
CNG 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	-0.9%
CNG Bi-fuel	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	-0.7%
LPG 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	N/A
LPG Bi-fuel	5.0	4.9	4.9	5.0	5.0	5.0	5.0	4.9	4.9	4.8	4.8	4.8	-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	N/A
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	N/A
Fuel Cell Hydrogen	0.2	0.4	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.3	N/A
Total Alternatives	144.6	145.0	145.1	145.8	146.7	146.3	145.7	143.3	142.0	141.4	141.3	141.1	3.3%
Percent Alternative Car Sales	12.77	12.93	12.94	12.95	12.99	12.98	12.96	12.93	12.91	12.90	12.90	12.89	3.9%
Total New Car Sales	1132.5	1121.7	1121.0	1125.6	1129.0	1127.6	1124.0	1107.8	1100.2	1096.5	1095.4	1094.4	-0.5%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1067.2	1070.6	1085.5	1104.9	1124.1	1138.7	1150.9	1151.1	1160.7	1176.8	1195.0	1216.9	0.5%
TDI Diesel ICE	97.3	98.6	100.8	103.5	106.0	108.6	111.0	111.6	112.4	113.4	116.1	119.3	4.4%
Total Conventional	1164.6	1169.3	1186.3	1208.4	1230.1	1247.3	1261.9	1262.6	1273.1	1290.2	1311.1	1336.2	0.8%
<b>Alternative-Fuel Vehicles</b>													
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	1.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	105.9	106.4	108.4	111.1	114.0	116.2	118.0	118.1	119.7	122.1	124.9	127.9	3.9%
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	N/A
Electric Vehicle	1.0	1.5	1.6	1.6	2.7	2.7	2.6	2.6	2.6	2.6	2.8	2.8	7.7%
Electric-Diesel Hybrid	0.0	3.2	3.3	4.8	5.0	5.1	8.8	8.8	8.9	9.0	9.2	9.4	N/A
Electric-Gasoline Hybrid	60.9	60.7	61.7	62.2	63.5	64.4	63.3	63.3	63.8	64.7	65.7	66.8	N/A
CNG 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	1.0%
CNG Bi-fuel	5.3	5.4	5.5	5.6	5.7	5.8	5.8	5.8	5.9	6.0	6.1	6.2	1.2%
LPG 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	1.4%
LPG Bi-fuel	17.8	17.9	18.2	18.5	18.9	19.2	19.4	19.4	19.6	19.9	20.2	20.6	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	N/A
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	N/A
Fuel Cell Hydrogen	0.2	0.5	0.5	0.6	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	N/A
Total Alternatives	191.2	195.7	199.2	204.4	210.9	214.3	219.0	219.2	221.5	225.1	229.8	234.6	5.2%
Percent Alternative Light Truck Sales	14.10	14.34	14.37	14.47	14.64	14.66	14.79	14.79	14.82	14.86	14.91	14.93	3.9%
Total New Truck Sales	1355.8	1364.9	1385.5	1412.8	1441.0	1461.7	1480.9	1481.8	1494.6	1515.3	1540.9	1570.7	1.2%

Table 37. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Percent Total Alternative Sales	13.50	13.70	13.73	13.80	13.91	13.93	14.00	14.00	14.01	14.03	14.08	14.09	4.0%
EPACT Legislative Alternative Sales	41.17	41.32	41.82	42.53	43.25	43.75	44.20	44.11	44.37	44.86	45.48	46.21	0.7%
ZEVP Legislative Alternative Sales	55.10	83.05	87.91	90.47	128.94	126.68	126.14	127.04	126.90	125.30	133.16	133.12	N/A
Total Vehicles Sales	2488.2	2486.7	2506.5	2538.4	2570.1	2589.3	2604.9	2589.7	2594.7	2611.8	2636.3	2665.1	0.4%



Table 37. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
Middle Atlantic

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 38. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1319.5	1239.2	1203.0	1168.5	1183.2	1189.0	1170.1	1157.3	1134.9	1109.4	1095.7	1079.6	1072.6
TDI Diesel ICE	1.2	1.0	1.2	2.4	2.4	2.4	3.0	3.0	3.0	3.5	3.5	3.5	3.6
Total Conventional	1320.7	1240.2	1204.3	1170.9	1185.7	1191.4	1173.0	1160.4	1137.9	1112.9	1099.2	1083.1	1076.1
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
Methanol 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	63.1	58.4	56.9	53.6	54.8	55.1	67.9	67.3	65.7	76.6	75.8	74.9	74.4
Ethanol 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
Electric Vehicle	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.4	7.9	8.2
Electric-Gasoline Hybrid	2.2	3.2	6.4	36.4	38.2	40.2	42.0	43.4	54.5	53.6	63.4	62.7	64.0
CNG 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
CNG Bi-fuel	2.0	1.8	1.7	1.7	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6
LPG 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
LPG Bi-fuel	7.5	6.9	6.5	6.4	6.4	6.3	6.1	5.9	5.7	5.5	5.5	5.4	5.4
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	75.3	70.8	71.9	98.5	101.8	104.0	118.3	118.9	128.1	142.1	151.2	152.9	154.0
Percent Alternative Car Sales	5.39	5.40	5.64	7.76	7.91	8.03	9.16	9.29	10.12	11.32	12.09	12.37	12.52
Total New Car Sales	1395.9	1311.0	1276.2	1269.3	1287.4	1295.4	1291.4	1279.3	1266.0	1255.0	1250.4	1236.0	1230.2
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1125.7	1141.4	1086.2	1096.9	1101.3	1125.6	1094.8	1098.3	1101.4	1102.3	1116.2	1125.6	1140.7
TDI Diesel ICE	58.2	50.4	56.6	88.8	88.4	86.0	86.0	88.1	89.9	101.8	102.0	102.5	106.2
Total Conventional	1183.9	1191.8	1142.8	1185.8	1189.6	1211.6	1180.7	1186.4	1191.3	1204.0	1218.2	1228.2	1246.9
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
Methanol 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	54.7	55.9	54.2	57.2	61.8	63.2	107.1	107.5	107.8	107.9	109.7	111.0	112.9
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	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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	0.0	0.0	0.0	26.5	49.6	52.5	52.0	53.6	55.2	56.8	58.9	60.9	63.4
CNG 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
CNG Bi-fuel	5.0	5.0	4.8	5.1	5.2	5.3	5.4	5.4	5.4	5.5	5.6	5.6	5.7
LPG 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
LPG Bi-fuel	16.5	16.7	16.0	16.9	17.4	17.7	17.9	18.0	18.1	18.3	18.5	18.7	19.0
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	76.8	78.1	75.5	106.3	134.6	139.4	183.0	185.1	187.0	189.0	193.3	196.8	201.6
Percent Alternative Light Truck Sales	6.09	6.15	6.20	8.23	10.17	10.32	13.42	13.50	13.57	13.57	13.70	13.81	13.92
Total New Truck Sales	1260.7	1269.9	1218.3	1292.1	1324.3	1350.9	1363.7	1371.5	1378.3	1393.1	1411.5	1425.0	1448.5

Table 38. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.72	5.77	5.91	7.99	9.05	9.20	11.35	11.47	11.92	12.51	12.94	13.14	13.28
EPACT Legislative Alternative Sales	42.89	42.16	40.37	41.91	42.61	43.10	43.15	43.02	42.86	42.92	43.35	43.58	44.12
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	2656.7	2580.9	2494.5	2561.4	2611.7	2646.3	2655.1	2650.8	2644.3	2648.1	2661.9	2661.0	2678.7

Table 38. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1060.0	1049.6	1050.1	1056.0	1060.9	1061.2	1059.4	1045.6	1039.6	1036.9	1036.6	1036.5	-0.8%
TDI Diesel ICE	3.6	3.6	3.8	3.9	4.0	4.2	4.3	4.5	4.6	4.8	5.0	5.3	7.6%
Total Conventional	1063.6	1053.3	1053.8	1059.9	1064.9	1065.4	1063.7	1050.1	1044.2	1041.7	1041.6	1041.7	-0.8%
<b>Alternative-Fuel Vehicles</b>													
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	-1.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	73.5	72.6	72.5	72.8	72.9	72.7	72.4	71.2	70.5	70.2	70.1	70.1	0.8%
Ethanol ICE	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.4%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.2%
Electric-Diesel Hybrid	10.1	10.3	10.4	10.5	10.6	10.7	10.7	10.6	10.6	10.5	10.6	10.6	N/A
Electric-Gasoline Hybrid	64.2	65.3	65.5	66.1	66.5	66.5	66.4	65.4	65.0	64.8	64.7	64.6	14.0%
CNG 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	-0.9%
CNG Bi-fuel	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.5%
LPG 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	N/A
LPG Bi-fuel	5.4	5.3	5.3	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	-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	N/A
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	N/A
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	N/A
Total Alternatives	155.2	155.6	155.8	156.8	157.5	157.4	157.0	154.6	153.4	152.9	152.8	152.7	3.4%
Percent Alternative Car Sales	12.74	12.87	12.88	12.88	12.88	12.87	12.86	12.83	12.81	12.80	12.79	12.78	3.8%
Total New Car Sales	1218.8	1208.9	1209.7	1216.7	1222.4	1222.8	1220.7	1204.7	1197.6	1194.6	1194.3	1194.4	-0.4%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1148.0	1154.0	1170.9	1194.3	1217.7	1234.5	1249.4	1250.0	1261.1	1278.1	1298.8	1323.1	0.6%
TDI Diesel ICE	106.4	108.0	111.4	114.1	118.3	122.1	125.0	127.1	128.8	131.3	135.1	139.2	4.5%
Total Conventional	1254.4	1262.0	1282.3	1308.4	1336.0	1356.7	1374.4	1377.0	1389.8	1409.4	1433.8	1462.4	0.9%
<b>Alternative-Fuel Vehicles</b>													
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	1.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	113.9	114.6	116.7	119.9	123.2	125.7	127.8	128.0	129.7	132.3	135.4	138.8	4.0%
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	N/A
Electric Vehicle	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3%
Electric-Diesel Hybrid	0.0	3.5	3.6	5.3	5.5	5.6	9.7	9.8	10.0	10.1	10.4	10.7	N/A
Electric-Gasoline Hybrid	65.3	65.2	66.3	66.9	68.3	69.3	68.2	68.3	69.0	70.0	71.1	72.4	N/A
CNG 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	0.3%
CNG Bi-fuel	5.8	5.8	5.9	6.0	6.2	6.3	6.3	6.4	6.4	6.5	6.6	6.8	1.3%
LPG 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	2.7%
LPG Bi-fuel	19.1	19.3	19.6	20.0	20.5	20.8	21.1	21.1	21.3	21.7	22.0	22.5	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	N/A
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	N/A
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	N/A
Total Alternatives	204.7	209.0	212.8	218.8	224.2	228.4	233.9	234.3	237.1	241.4	246.4	251.9	5.2%
Percent Alternative Light Truck Sales	14.03	14.21	14.23	14.32	14.37	14.41	14.54	14.54	14.58	14.62	14.66	14.69	3.9%
Total New Truck Sales	1459.1	1471.0	1495.0	1527.1	1560.2	1585.0	1608.2	1611.3	1627.0	1650.8	1680.2	1714.2	1.3%

Table 38. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.44	13.60	13.63	13.69	13.72	13.74	13.82	13.81	13.83	13.86	13.88	13.91	3.9%
EPACT Legislative Alternative Sales	44.31	44.53	45.13	45.97	46.82	47.44	48.00	47.96	48.30	48.87	49.59	50.43	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	N/A
Total Vehicles Sales	2677.9	2679.9	2704.7	2743.8	2782.6	2807.8	2828.9	2816.0	2824.6	2845.4	2874.5	2908.6	0.5%

Table 38. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
East North Central

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 39. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	537.0	510.3	499.1	487.3	493.9	496.9	489.6	485.2	476.7	466.7	461.8	455.7	453.5
TDI Diesel ICE	0.5	0.4	0.5	1.0	1.0	1.0	1.3	1.3	1.3	1.5	1.5	1.5	1.5
Total Conventional	537.4	510.7	499.6	488.2	494.9	497.8	490.8	486.4	477.9	468.2	463.3	457.2	455.0
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
Methanol 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	25.7	24.1	23.6	22.3	22.9	23.0	28.4	28.2	27.6	32.2	31.9	31.6	31.5
Ethanol ICE	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 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
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.9	3.3	3.5
Electric-Gasoline Hybrid	0.9	1.3	2.6	15.1	15.9	16.8	17.6	18.2	22.9	22.5	26.7	26.4	27.1
CNG 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
CNG Bi-fuel	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7
LPG 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
LPG Bi-fuel	3.0	2.8	2.7	2.7	2.7	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3
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	30.6	29.1	29.8	41.0	42.5	43.5	49.5	49.8	53.8	59.8	63.7	64.6	65.1
Percent Alternative Car Sales	5.39	5.40	5.63	7.74	7.90	8.03	9.16	9.29	10.12	11.32	12.09	12.38	12.53
Total New Car Sales	568.1	539.8	529.4	529.2	537.4	541.3	540.3	536.3	531.7	528.0	527.0	521.7	520.1
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	460.0	470.7	451.6	458.6	460.6	470.5	458.0	460.9	463.2	463.4	470.1	474.6	481.8
TDI Diesel ICE	21.6	19.9	22.4	35.8	36.0	35.8	36.0	36.4	37.1	43.2	43.4	43.9	45.5
Total Conventional	481.6	490.6	474.0	494.4	496.6	506.3	494.1	497.3	500.3	506.6	513.5	518.5	527.3
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
Methanol 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	22.4	23.1	22.5	23.9	25.9	26.4	44.8	45.1	45.3	45.4	46.2	46.8	47.7
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
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	0.0	0.0	0.0	11.0	20.7	21.9	21.8	22.5	23.2	23.9	24.8	25.7	26.8
CNG 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
CNG Bi-fuel	2.0	2.1	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.4
LPG 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
LPG Bi-fuel	6.7	6.9	6.6	7.1	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.9	8.0
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	31.4	32.2	31.4	44.3	56.2	58.2	76.6	77.6	78.6	79.5	81.4	83.0	85.2
Percent Alternative Light Truck Sales	6.12	6.16	6.21	8.23	10.17	10.32	13.42	13.50	13.58	13.56	13.69	13.80	13.91
Total New Truck Sales	513.0	522.9	505.4	538.7	552.8	564.5	570.6	574.9	578.9	586.1	594.9	601.5	612.5

Table 39. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.74	5.77	5.91	7.99	9.05	9.20	11.35	11.47	11.92	12.50	12.94	13.14	13.27
EPACT Legislative Alternative Sales	17.45	17.36	16.75	17.47	17.79	18.01	18.05	18.03	18.00	18.06	18.27	18.40	18.66
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	1081.1	1062.7	1034.8	1067.9	1090.2	1105.8	1110.9	1111.2	1110.7	1114.1	1121.9	1123.3	1132.6



Table 39. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	448.9	445.4	446.7	450.0	452.9	453.9	453.9	448.9	447.3	447.2	447.9	448.8	-0.6%
TDI Diesel ICE	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.2	7.8%
Total Conventional	450.5	447.0	448.3	451.7	454.6	455.6	455.7	450.8	449.2	449.2	450.0	451.0	-0.5%
<b>Alternative-Fuel Vehicles</b>													
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	-1.0%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	31.1	30.8	30.8	31.0	31.1	31.1	31.0	30.5	30.3	30.3	30.3	30.3	1.0%
Ethanol 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	3.6%
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	-1.0%
Electric-Diesel Hybrid	4.3	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.5	4.5	N/A
Electric-Gasoline Hybrid	27.2	27.7	27.8	28.1	28.4	28.5	28.5	28.1	28.0	27.9	28.0	28.0	14.3%
CNG 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	-0.8%
CNG Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.3%
LPG 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	N/A
LPG Bi-fuel	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	-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	N/A
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	N/A
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	N/A
Total Alternatives	65.8	66.0	66.2	66.8	67.2	67.3	67.2	66.3	65.9	65.8	65.9	66.0	3.6%
Percent Alternative Car Sales	12.74	12.87	12.88	12.88	12.88	12.87	12.86	12.82	12.80	12.78	12.77	12.76	3.8%
Total New Car Sales	516.2	513.0	514.5	518.5	521.8	522.9	523.0	517.1	515.1	515.0	515.9	517.0	-0.2%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	485.7	489.4	498.2	509.0	520.3	528.7	536.0	537.8	543.9	553.0	562.8	574.7	0.9%
TDI Diesel ICE	45.6	46.2	47.2	48.6	50.0	51.4	52.7	53.2	53.8	54.5	56.4	58.0	4.8%
Total Conventional	531.3	535.6	545.4	557.5	570.3	580.1	588.7	591.0	597.7	607.5	619.2	632.8	1.1%
<b>Alternative-Fuel Vehicles</b>													
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	1.5%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	48.2	48.6	49.7	51.1	52.6	53.8	54.8	55.1	55.9	57.3	58.7	60.3	4.3%
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	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.5%
Electric-Diesel Hybrid	0.0	1.5	1.5	2.2	2.3	2.4	4.1	4.2	4.2	4.3	4.4	4.5	N/A
Electric-Gasoline Hybrid	27.6	27.6	28.2	28.5	29.2	29.7	29.3	29.4	29.7	30.2	30.8	31.4	N/A
CNG 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	0.1%
CNG Bi-fuel	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.9	2.9	1.5%
LPG 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	2.6%
LPG Bi-fuel	8.1	8.2	8.3	8.5	8.7	8.9	9.0	9.1	9.2	9.3	9.5	9.7	1.5%
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	N/A
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	N/A
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	N/A
Total Alternatives	86.6	88.6	90.5	93.2	95.8	97.7	100.3	100.7	102.1	104.2	106.5	109.2	5.4%
Percent Alternative Light Truck Sales	14.02	14.20	14.23	14.32	14.38	14.42	14.55	14.56	14.59	14.64	14.68	14.71	3.9%
Total New Truck Sales	618.0	624.2	635.9	650.8	666.0	677.9	689.0	691.7	699.8	711.7	725.7	741.9	1.5%

Table 39. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.44	13.60	13.62	13.68	13.72	13.74	13.82	13.82	13.83	13.86	13.89	13.91	3.9%
EPACT Legislative Alternative Sales	18.77	18.90	19.20	19.59	19.99	20.29	20.56	20.59	20.77	21.07	21.42	21.83	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	N/A
Total Vehicles Sales	1134.2	1137.2	1150.4	1169.2	1187.9	1200.8	1211.9	1208.8	1214.9	1226.7	1241.6	1258.9	0.7%

Table 39. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
West North Central

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 40. Light-Duty Vehicle Sales by Technology Type

(Thousands)

South Atlantic

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1554.3	1463.2	1428.6	1398.5	1426.3	1444.9	1434.6	1432.7	1419.4	1402.1	1398.7	1392.0	1396.7
TDI Diesel ICE	1.2	1.1	1.4	2.7	2.8	2.7	3.5	3.6	3.6	4.3	4.3	4.3	4.5
Total Conventional	1555.5	1464.3	1430.1	1401.2	1429.1	1447.7	1438.1	1436.3	1423.0	1406.4	1403.0	1396.3	1401.2
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	74.3	69.0	67.5	64.1	66.1	67.0	83.3	83.3	82.2	96.8	96.8	96.5	96.9
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Electric Vehicle	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.4	9.8	10.3
Electric-Gasoline Hybrid	2.5	3.7	7.4	43.0	45.7	48.4	51.0	53.3	67.5	67.2	80.3	80.2	82.7
CNG 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
CNG Bi-fuel	2.3	2.1	2.0	2.0	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1
LPG 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
LPG Bi-fuel	8.8	8.1	7.8	7.6	7.7	7.7	7.5	7.3	7.2	7.0	7.0	7.0	7.1
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	88.5	83.5	85.3	117.3	122.3	126.0	144.7	146.8	159.6	178.9	192.1	196.2	199.7
Percent Alternative Car Sales	5.39	5.39	5.63	7.72	7.88	8.01	9.14	9.27	10.09	11.28	12.04	12.32	12.47
Total New Car Sales	1644.1	1547.8	1515.4	1518.5	1551.4	1573.7	1582.7	1583.0	1582.7	1585.3	1595.1	1592.5	1600.9
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1338.9	1350.1	1293.0	1316.9	1335.1	1373.4	1347.4	1366.0	1384.5	1398.3	1429.6	1456.0	1490.3
TDI Diesel ICE	54.5	56.8	63.7	101.8	98.5	98.5	99.7	101.9	104.5	122.5	124.4	126.4	132.3
Total Conventional	1393.4	1406.9	1356.7	1418.7	1433.5	1471.9	1447.1	1467.9	1489.0	1520.8	1554.0	1582.4	1622.7
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	65.4	66.2	64.6	68.6	74.9	77.2	131.8	133.7	135.4	136.9	140.5	143.6	147.5
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	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
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	0.0	0.0	0.0	31.3	59.4	63.3	63.4	65.9	68.5	71.2	74.7	78.0	82.0
CNG 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
CNG Bi-fuel	5.9	5.9	5.7	6.1	6.3	6.5	6.6	6.7	6.8	6.9	7.1	7.2	7.4
LPG 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
LPG Bi-fuel	19.5	19.7	19.0	20.3	20.9	21.5	21.9	22.3	22.6	23.1	23.6	24.1	24.7
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	91.4	92.4	89.9	127.0	162.2	169.2	224.4	229.3	234.1	238.9	246.7	253.6	262.4
Percent Alternative Light Truck Sales	6.15	6.17	6.21	8.22	10.17	10.31	13.43	13.51	13.59	13.57	13.70	13.81	13.92
Total New Truck Sales	1484.8	1499.3	1446.6	1545.7	1595.7	1641.1	1671.5	1697.2	1723.1	1759.7	1800.7	1836.1	1885.0

Table 40. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.75	5.77	5.91	7.97	9.04	9.18	11.34	11.46	11.91	12.49	12.92	13.12	13.25
EPACT Legislative Alternative Sales	50.51	49.78	47.93	50.13	51.35	52.35	52.88	53.23	53.59	54.22	55.30	56.15	57.42
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	3128.8	3047.1	2961.9	3064.3	3147.1	3214.8	3254.2	3280.2	3305.8	3345.0	3395.8	3428.6	3485.9

Table 40. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1394.0	1393.9	1408.3	1429.5	1449.3	1463.2	1474.2	1468.6	1473.4	1483.4	1496.3	1509.4	0.1%
TDI Diesel ICE	4.5	4.7	4.8	5.0	5.2	5.4	5.7	5.9	6.1	6.3	6.7	7.1	8.4%
Total Conventional	1398.6	1398.6	1413.2	1434.5	1454.6	1468.7	1479.9	1474.4	1479.5	1489.6	1502.9	1516.5	0.2%
<b>Alternative-Fuel Vehicles</b>													
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	-0.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	96.7	96.4	97.2	98.5	99.7	100.3	100.8	99.9	100.0	100.5	101.3	102.1	1.7%
Ethanol ICE	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	4.2%
Electric Vehicle	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%
Electric-Diesel Hybrid	12.9	13.3	13.4	13.7	13.9	14.0	14.2	14.1	14.1	14.1	14.3	14.4	N/A
Electric-Gasoline Hybrid	83.8	86.1	87.3	88.8	90.3	91.3	91.9	91.4	91.6	92.1	92.8	93.5	15.1%
CNG 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	-0.2%
CNG Bi-fuel	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	0.3%
LPG 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	N/A
LPG Bi-fuel	7.1	7.1	7.1	7.3	7.4	7.4	7.5	7.5	7.5	7.5	7.6	7.7	-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	N/A
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	N/A
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	N/A
Total Alternatives	203.1	205.6	207.8	211.1	214.0	215.9	217.3	215.8	216.1	217.2	218.9	220.7	4.3%
Percent Alternative Car Sales	12.68	12.82	12.82	12.83	12.83	12.81	12.80	12.77	12.74	12.73	12.71	12.70	3.8%
Total New Car Sales	1601.7	1604.2	1621.0	1645.6	1668.6	1684.5	1697.2	1690.2	1695.6	1706.9	1721.8	1737.1	0.5%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1514.5	1538.0	1577.2	1623.2	1671.8	1711.5	1748.2	1766.5	1799.1	1841.8	1889.0	1941.8	1.6%
TDI Diesel ICE	133.9	136.7	140.9	146.2	151.5	157.0	162.3	165.0	168.1	171.4	177.4	184.3	5.3%
Total Conventional	1648.5	1674.7	1718.1	1769.5	1823.3	1868.5	1910.5	1931.5	1967.2	2013.2	2066.4	2126.1	1.8%
<b>Alternative-Fuel Vehicles</b>													
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	2.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	150.2	152.7	157.2	162.9	169.1	174.2	178.8	180.8	185.0	190.7	196.9	203.6	5.0%
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	N/A
Electric Vehicle	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	2.2%
Electric-Diesel Hybrid	0.0	4.5	4.6	6.8	7.1	7.3	12.9	13.1	13.3	13.6	14.0	14.5	N/A
Electric-Gasoline Hybrid	85.3	86.0	88.4	90.1	93.0	95.3	94.8	95.8	97.6	100.0	102.6	105.3	N/A
CNG 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	1.3%
CNG Bi-fuel	7.6	7.7	7.9	8.1	8.4	8.6	8.8	8.9	9.1	9.3	9.6	9.8	2.2%
LPG 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	2.4%
LPG Bi-fuel	25.2	25.6	26.3	27.1	27.9	28.6	29.3	29.7	30.2	30.9	31.8	32.7	2.2%
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	N/A
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	N/A
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	N/A
Total Alternatives	269.0	277.3	285.3	296.0	306.4	315.0	325.5	329.3	336.3	345.5	355.9	367.0	6.2%
Percent Alternative Light Truck Sales	14.03	14.21	14.24	14.33	14.39	14.43	14.56	14.56	14.60	14.65	14.69	14.72	3.9%
Total New Truck Sales	1917.5	1952.0	2003.4	2065.4	2129.7	2183.5	2236.0	2260.8	2303.4	2358.7	2422.2	2493.2	2.2%

Table 40. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.42	13.58	13.61	13.66	13.70	13.73	13.80	13.80	13.81	13.84	13.87	13.89	3.9%
EPACT Legislative Alternative Sales	58.23	59.09	60.48	62.17	63.92	65.35	66.73	67.30	68.38	69.82	71.49	73.35	1.7%
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	N/A
Total Vehicles Sales	3519.2	3556.2	3624.4	3711.1	3798.3	3868.1	3933.2	3951.0	3999.0	4065.6	4144.0	4230.3	1.4%

Table 40. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
South Atlantic

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 41. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	451.8	429.0	419.8	410.1	416.3	419.1	413.3	409.9	403.2	395.4	391.7	387.1	385.7
TDI Diesel ICE	0.4	0.3	0.4	0.8	0.8	0.8	1.1	1.1	1.1	1.3	1.3	1.3	1.3
Total Conventional	452.1	429.4	420.3	410.9	417.1	420.0	414.4	411.0	404.3	396.7	393.0	388.3	387.0
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
Methanol 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	21.6	20.2	19.8	18.8	19.3	19.4	24.0	23.8	23.4	27.3	27.1	26.8	26.8
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	0.1
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
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.6	2.9	3.0
Electric-Gasoline Hybrid	0.7	1.1	2.2	12.7	13.4	14.1	14.8	15.3	19.3	19.0	22.6	22.4	22.9
CNG 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
CNG Bi-fuel	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
LPG 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
LPG Bi-fuel	2.6	2.4	2.3	2.2	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.0	1.9
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
Total Alternatives	25.7	24.5	25.1	34.5	35.8	36.6	41.8	42.1	45.5	50.6	54.0	54.8	55.3
Percent Alternative Car Sales	5.39	5.40	5.63	7.74	7.89	8.02	9.15	9.29	10.11	11.31	12.08	12.36	12.51
Total New Car Sales	477.9	453.9	445.4	445.4	452.9	456.6	456.1	453.1	449.8	447.3	447.0	443.1	442.3
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	387.6	394.9	378.7	384.5	387.8	396.5	386.3	389.0	391.4	392.2	398.4	402.8	409.4
TDI Diesel ICE	17.6	17.7	20.1	31.6	30.6	30.6	30.8	31.2	31.8	37.0	37.2	37.7	39.1
Total Conventional	405.1	412.6	398.8	416.1	418.5	427.1	417.1	420.2	423.2	429.3	435.6	440.5	448.5
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
Methanol 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	18.9	19.3	18.9	20.0	21.8	22.3	37.8	38.1	38.3	38.4	39.2	39.7	40.5
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	0.2	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-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	0.0	0.0	0.0	9.2	17.4	18.4	18.3	18.9	19.6	20.2	21.0	21.8	22.7
CNG 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
CNG Bi-fuel	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1
LPG 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
LPG Bi-fuel	5.7	5.8	5.6	5.9	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.8
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
Total Alternatives	26.4	27.0	26.3	37.2	47.3	49.1	64.6	65.5	66.4	67.2	69.0	70.4	72.3
Percent Alternative Light Truck Sales	6.13	6.15	6.19	8.21	10.16	10.30	13.40	13.49	13.56	13.54	13.67	13.78	13.89
Total New Truck Sales	431.6	439.6	425.1	453.4	465.8	476.1	481.7	485.7	489.7	496.5	504.6	510.9	520.8

Table 41. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.74	5.77	5.91	7.98	9.04	9.18	11.34	11.46	11.91	12.49	12.92	13.12	13.26
EPACT Legislative Alternative Sales	14.68	14.60	14.09	14.70	14.99	15.19	15.24	15.24	15.23	15.30	15.50	15.62	15.87
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	909.5	893.5	870.5	898.7	918.7	932.7	937.8	938.8	939.4	943.8	951.6	954.0	963.2

Table 41. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	382.3	379.7	381.2	384.6	387.5	388.8	389.3	385.5	384.5	384.8	385.8	387.0	-0.4%
TDI Diesel ICE	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.9	7.8%
Total Conventional	383.6	381.1	382.6	386.0	389.0	390.3	390.9	387.1	386.1	386.5	387.7	388.9	-0.4%
<b>Alternative-Fuel Vehicles</b>													
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	-0.9%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	26.5	26.3	26.3	26.5	26.6	26.7	26.6	26.2	26.1	26.1	26.1	26.2	1.1%
Ethanol 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	4.2%
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	-0.9%
Electric-Diesel Hybrid	3.7	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.9	N/A
Electric-Gasoline Hybrid	23.1	23.5	23.7	24.0	24.2	24.3	24.3	24.0	24.0	24.0	24.0	24.0	14.4%
CNG 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	-0.5%
CNG Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-0.2%
LPG 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	N/A
LPG Bi-fuel	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.8%
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	N/A
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	N/A
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	N/A
Total Alternatives	55.9	56.2	56.5	57.0	57.5	57.6	57.6	56.9	56.6	56.6	56.7	56.8	3.7%
Percent Alternative Car Sales	12.73	12.86	12.86	12.87	12.87	12.86	12.85	12.81	12.79	12.77	12.76	12.74	3.8%
Total New Car Sales	439.6	437.3	439.1	443.0	446.4	447.9	448.5	444.0	442.8	443.1	444.3	445.7	-0.1%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	413.2	416.8	424.7	434.4	444.6	452.4	459.2	461.2	466.9	475.2	484.5	495.3	1.0%
TDI Diesel ICE	39.3	39.9	40.8	42.1	43.4	44.6	45.8	46.3	46.9	47.5	48.9	50.4	4.6%
Total Conventional	452.6	456.7	465.6	476.5	488.0	497.0	505.0	507.5	513.8	522.8	533.4	545.7	1.2%
<b>Alternative-Fuel Vehicles</b>													
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	1.6%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	41.0	41.4	42.4	43.6	45.0	46.0	47.0	47.2	48.0	49.2	50.5	52.0	4.4%
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	N/A
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	1.7%
Electric-Diesel Hybrid	0.0	1.3	1.3	1.9	2.0	2.1	3.6	3.6	3.6	3.7	3.8	3.9	N/A
Electric-Gasoline Hybrid	23.5	23.5	24.0	24.3	24.9	25.3	25.0	25.1	25.5	25.9	26.4	27.0	N/A
CNG 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	1.0%
CNG Bi-fuel	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.5	2.5	1.6%
LPG 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	2.3%
LPG Bi-fuel	6.9	7.0	7.1	7.3	7.5	7.6	7.8	7.8	7.9	8.0	8.2	8.4	1.6%
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	N/A
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	N/A
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	N/A
Total Alternatives	73.7	75.5	77.1	79.5	81.8	83.6	85.9	86.3	87.7	89.5	91.7	94.0	5.6%
Percent Alternative Light Truck Sales	14.00	14.18	14.21	14.30	14.36	14.40	14.53	14.54	14.57	14.62	14.66	14.70	3.9%
Total New Truck Sales	526.2	532.1	542.7	556.1	569.8	580.6	590.9	593.9	601.5	612.3	625.1	639.7	1.6%

Table 41. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.42	13.58	13.61	13.67	13.70	13.73	13.80	13.80	13.82	13.84	13.87	13.89	3.9%
EPACT Legislative Alternative Sales	15.98	16.11	16.38	16.74	17.10	17.38	17.63	17.68	17.86	18.13	18.45	18.82	1.1%
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	N/A
Total Vehicles Sales	965.8	969.5	981.8	999.1	1016.3	1028.6	1039.4	1037.9	1044.2	1055.4	1069.4	1085.4	0.8%

Table 41. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
East South Central

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 42. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	854.8	809.8	793.3	777.7	792.0	801.6	794.9	792.6	784.2	773.4	770.3	765.3	766.6
TDI Diesel ICE	0.7	0.6	0.8	1.5	1.6	1.6	2.1	2.1	2.1	2.5	2.5	2.6	2.6
Total Conventional	855.5	810.4	794.1	779.3	793.7	803.2	796.9	794.8	786.3	775.9	772.9	767.9	769.3
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	40.9	38.2	37.5	35.7	36.7	37.2	46.2	46.1	45.4	53.4	53.3	53.1	53.2
Ethanol 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
Electric Vehicle	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-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.2	5.7	6.0
Electric-Gasoline Hybrid	1.4	2.0	4.1	24.0	25.5	27.0	28.4	29.7	37.5	37.2	44.4	44.2	45.5
CNG 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
CNG Bi-fuel	1.3	1.2	1.1	1.1	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.2
LPG 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
LPG Bi-fuel	4.8	4.5	4.3	4.2	4.3	4.2	4.2	4.1	4.0	3.9	3.9	3.9	3.9
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
Total Alternatives	48.7	46.2	47.4	65.3	68.1	70.0	80.3	81.4	88.4	99.0	106.2	108.3	110.0
Percent Alternative Car Sales	5.39	5.39	5.63	7.73	7.90	8.02	9.15	9.29	10.11	11.31	12.08	12.36	12.51
Total New Car Sales	904.2	856.6	841.5	844.6	861.8	873.2	877.2	876.1	874.7	874.9	879.0	876.2	879.3
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	735.4	746.4	717.0	731.2	736.6	757.6	742.4	751.4	760.5	766.3	782.2	795.7	812.8
TDI Diesel ICE	31.0	32.2	36.4	57.9	59.8	59.3	59.9	61.3	62.7	73.4	74.6	75.4	78.8
Total Conventional	766.4	778.7	753.4	789.1	796.4	816.9	802.3	812.7	823.2	839.7	856.8	871.1	891.6
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	35.9	36.6	35.8	38.1	41.3	42.6	72.6	73.6	74.4	75.0	76.9	78.5	80.5
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	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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	0.0	0.0	0.0	17.5	33.1	35.3	35.2	36.6	38.0	39.4	41.3	43.0	45.1
CNG 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
CNG Bi-fuel	3.2	3.3	3.2	3.4	3.5	3.6	3.7	3.7	3.8	3.8	3.9	4.0	4.1
LPG 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
LPG Bi-fuel	10.7	10.9	10.5	11.3	11.6	11.9	12.2	12.3	12.5	12.7	13.0	13.3	13.6
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	50.2	51.1	49.8	70.6	90.0	93.8	124.1	126.6	129.1	131.4	135.5	139.1	143.7
Percent Alternative Light Truck Sales	6.15	6.16	6.20	8.21	10.15	10.30	13.39	13.48	13.56	13.53	13.66	13.77	13.88
Total New Truck Sales	816.6	829.8	803.3	859.7	886.4	910.7	926.4	939.3	952.3	971.1	992.3	1010.2	1035.3

Table 42. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.75	5.77	5.91	7.97	9.04	9.18	11.33	11.46	11.90	12.48	12.92	13.12	13.25
EPACT Legislative Alternative Sales	27.78	27.55	26.62	27.88	28.52	29.05	29.31	29.46	29.62	29.92	30.47	30.90	31.54
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	1720.8	1686.4	1644.8	1704.3	1748.2	1783.9	1803.6	1815.4	1827.0	1846.0	1871.3	1886.4	1914.6

Table 42. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	763.6	762.0	768.1	777.9	786.8	792.4	796.4	791.6	792.4	796.0	801.2	806.6	0.0%
TDI Diesel ICE	2.7	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.6	3.8	4.0	8.4%
Total Conventional	766.3	764.7	771.0	780.8	789.8	795.6	799.7	795.0	795.9	799.6	805.0	810.6	0.0%
<b>Alternative-Fuel Vehicles</b>													
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	-0.5%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	53.0	52.7	53.0	53.6	54.1	54.3	54.4	53.9	53.8	53.9	54.2	54.5	1.6%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	4.7%
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.5%
Electric-Diesel Hybrid	7.4	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.0	8.0	8.1	8.1	N/A
Electric-Gasoline Hybrid	46.0	47.2	47.7	48.4	49.1	49.5	49.8	49.3	49.3	49.5	49.8	50.0	14.9%
CNG 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	-0.1%
CNG Bi-fuel	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.2%
LPG 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	N/A
LPG Bi-fuel	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.1	-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	N/A
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	N/A
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	N/A
Total Alternatives	111.7	112.9	113.8	115.4	116.7	117.4	117.9	116.8	116.7	117.1	117.7	118.4	4.2%
Percent Alternative Car Sales	12.73	12.86	12.87	12.87	12.87	12.86	12.85	12.81	12.79	12.77	12.76	12.75	3.8%
Total New Car Sales	878.0	877.5	884.8	896.2	906.5	913.0	917.6	911.8	912.6	916.7	922.8	929.1	0.4%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	824.5	835.3	854.7	877.6	901.6	920.8	938.1	945.9	961.2	981.9	1004.9	1031.1	1.4%
TDI Diesel ICE	79.6	81.2	83.6	86.5	89.4	92.4	95.2	96.6	98.1	99.8	103.0	106.5	5.3%
Total Conventional	904.1	916.5	938.3	964.1	991.0	1013.2	1033.4	1042.4	1059.3	1081.7	1107.9	1137.6	1.7%
<b>Alternative-Fuel Vehicles</b>													
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	2.1%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	81.8	83.0	85.2	88.1	91.2	93.7	95.9	96.9	98.9	101.7	104.8	108.2	4.8%
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	N/A
Electric Vehicle	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	2.1%
Electric-Diesel Hybrid	0.0	2.6	2.7	4.0	4.1	4.2	7.3	7.4	7.6	7.7	7.9	8.2	N/A
Electric-Gasoline Hybrid	46.8	47.1	48.2	49.0	50.4	51.6	51.1	51.5	52.4	53.5	54.8	56.2	N/A
CNG 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	0.9%
CNG Bi-fuel	4.1	4.2	4.3	4.4	4.6	4.7	4.8	4.8	4.9	5.0	5.1	5.3	2.1%
LPG 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	3.5%
LPG Bi-fuel	13.8	14.0	14.3	14.8	15.2	15.5	15.9	16.0	16.3	16.6	17.0	17.5	2.1%
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	N/A
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	N/A
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	N/A
Total Alternatives	147.0	151.3	155.3	160.8	166.0	170.3	175.5	177.2	180.5	185.1	190.2	195.8	6.0%
Percent Alternative Light Truck Sales	13.99	14.17	14.20	14.29	14.35	14.39	14.52	14.53	14.56	14.61	14.65	14.68	3.8%
Total New Truck Sales	1051.1	1067.8	1093.5	1124.8	1157.0	1183.4	1208.9	1219.6	1239.8	1266.8	1298.1	1333.4	2.1%



Table 42. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.41	13.58	13.60	13.66	13.70	13.72	13.80	13.79	13.81	13.84	13.87	13.89	3.9%
EPACT Legislative Alternative Sales	31.92	32.33	33.01	33.86	34.72	35.42	36.08	36.30	36.81	37.50	38.31	39.23	1.5%
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	N/A
Total Vehicles Sales	1929.2	1945.4	1978.3	2021.0	2063.5	2096.4	2126.5	2131.4	2152.5	2183.5	2220.9	2262.5	1.3%

Table 42. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
West South Central

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 43. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	467.9	452.8	450.6	447.1	458.6	468.1	468.4	471.7	470.9	468.4	470.7	471.7	476.6
TDI Diesel ICE	0.4	0.4	0.5	0.9	1.0	1.0	1.3	1.3	1.3	1.6	1.6	1.6	1.7
Total Conventional	468.3	453.2	451.1	448.1	459.7	469.1	469.7	473.0	472.3	470.0	472.3	473.4	478.3
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	22.4	21.4	21.3	20.5	21.2	21.7	27.2	27.4	27.3	32.3	32.6	32.7	33.1
Ethanol ICE	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
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
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	3.7	3.9
Electric-Gasoline Hybrid	0.8	1.2	2.4	14.1	15.2	16.3	17.3	18.2	23.2	23.1	27.9	28.0	29.0
CNG 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
CNG Bi-fuel	0.7	0.7	0.6	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
LPG 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
LPG Bi-fuel	2.7	2.5	2.5	2.4	2.5	2.5	2.5	2.4	2.4	2.3	2.4	2.4	2.4
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	26.7	25.9	27.0	37.8	39.9	41.4	47.8	48.9	53.7	60.7	65.7	67.7	69.3
Percent Alternative Car Sales	5.39	5.40	5.64	7.78	7.99	8.11	9.24	9.37	10.22	11.43	12.22	12.50	12.65
Total New Car Sales	495.0	479.1	478.1	485.9	499.6	510.5	517.6	522.0	526.0	530.7	538.1	541.0	547.6
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	399.8	416.3	405.8	418.4	423.8	439.8	435.2	445.0	454.6	461.6	476.2	488.5	503.5
TDI Diesel ICE	20.0	19.3	22.4	35.5	37.4	37.3	38.0	38.9	40.2	47.5	48.0	49.1	51.5
Total Conventional	419.8	435.6	428.2	453.9	461.3	477.2	473.1	483.9	494.8	509.1	524.2	537.5	555.0
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	19.5	20.4	20.2	21.8	23.8	24.7	42.6	43.6	44.5	45.2	46.8	48.2	49.8
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
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	0.0	0.0	0.0	10.2	19.8	21.2	21.3	22.3	23.4	24.4	25.8	27.1	28.7
CNG 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
CNG Bi-fuel	1.8	1.8	1.8	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.4	2.5	2.5
LPG 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
LPG Bi-fuel	5.9	6.1	6.0	6.5	6.7	7.0	7.2	7.3	7.5	7.7	8.0	8.2	8.5
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	27.3	28.5	28.2	40.7	52.6	55.2	73.4	75.7	77.9	80.0	83.3	86.2	89.8
Percent Alternative Light Truck Sales	6.10	6.14	6.18	8.23	10.23	10.37	13.44	13.53	13.60	13.58	13.71	13.82	13.93
Total New Truck Sales	447.1	464.1	456.4	494.6	513.8	532.4	546.6	559.6	572.7	589.1	607.4	623.8	644.8

Table 43. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.73	5.77	5.91	8.01	9.12	9.26	11.40	11.52	11.98	12.56	13.01	13.21	13.34
EPACT Legislative Alternative Sales	15.21	15.41	15.12	16.04	16.53	16.98	17.29	17.55	17.81	18.15	18.65	19.08	19.64
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	942.1	943.2	934.4	980.5	1013.4	1042.9	1064.2	1081.6	1098.7	1119.8	1145.5	1164.8	1192.5

Table 43. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	479.0	482.3	490.3	501.1	511.5	519.8	526.8	527.9	532.3	538.9	545.7	553.0	0.9%
TDI Diesel ICE	1.7	1.8	1.9	2.0	2.0	2.1	2.3	2.3	2.5	2.6	2.8	3.1	9.6%
Total Conventional	480.8	484.1	492.2	503.0	513.6	521.9	529.1	530.2	534.8	541.5	548.5	556.1	0.9%
<b>Alternative-Fuel Vehicles</b>													
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	0.4%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	33.2	33.4	33.8	34.5	35.2	35.6	36.0	35.9	36.1	36.5	36.9	37.4	2.5%
Ethanol 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	5.2%
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	0.4%
Electric-Diesel Hybrid	4.8	5.0	5.2	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.9	6.1	N/A
Electric-Gasoline Hybrid	29.6	30.6	31.2	31.9	32.6	33.2	33.7	33.6	33.9	34.3	34.8	35.2	16.0%
CNG 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	0.9%
CNG Bi-fuel	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.2%
LPG 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	N/A
LPG Bi-fuel	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.8	2.8	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	N/A
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	N/A
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	N/A
Total Alternatives	71.0	72.3	73.6	75.2	76.8	77.9	78.9	78.9	79.5	80.4	81.5	82.6	5.2%
Percent Alternative Car Sales	12.87	13.00	13.01	13.01	13.00	12.99	12.98	12.95	12.94	12.92	12.94	12.93	3.9%
Total New Car Sales	551.8	556.5	565.8	578.3	590.3	599.9	608.0	609.1	614.3	621.9	630.0	638.7	1.3%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	515.6	527.3	543.6	563.7	584.8	602.6	618.9	628.8	642.6	661.6	678.8	700.7	2.3%
TDI Diesel ICE	52.2	53.5	56.1	58.0	60.1	62.6	65.4	67.2	70.0	71.8	77.4	81.2	6.4%
Total Conventional	567.8	580.8	599.7	621.7	644.9	665.3	684.3	696.0	712.6	733.4	756.2	781.8	2.6%
<b>Alternative-Fuel Vehicles</b>													
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	3.0%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	51.2	52.4	54.2	56.6	59.2	61.3	63.3	64.4	66.1	68.5	70.8	73.5	5.7%
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	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	3.0%
Electric-Diesel Hybrid	0.0	1.7	1.8	2.7	2.8	2.9	5.1	5.2	5.4	5.5	5.9	6.1	N/A
Electric-Gasoline Hybrid	30.0	30.4	31.4	32.2	33.4	34.5	34.4	35.0	35.8	36.8	37.9	39.1	N/A
CNG 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	-0.4%
CNG Bi-fuel	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.6	3.0%
LPG 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	7.2%
LPG Bi-fuel	8.7	8.9	9.2	9.5	9.9	10.2	10.5	10.7	10.9	11.3	11.6	12.0	3.0%
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	N/A
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	N/A
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	N/A
Total Alternatives	92.7	96.3	99.7	104.1	108.5	112.3	116.8	118.8	121.9	125.9	130.1	134.8	7.0%
Percent Alternative Light Truck Sales	14.04	14.23	14.25	14.35	14.40	14.44	14.58	14.58	14.61	14.66	14.68	14.71	3.9%
Total New Truck Sales	660.5	677.1	699.3	725.8	753.5	777.6	801.1	814.8	834.5	859.4	886.3	916.7	3.0%

Table 43. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.51	13.67	13.70	13.76	13.79	13.81	13.89	13.88	13.90	13.93	13.96	13.98	3.9%
EPACT Legislative Alternative Sales	20.06	20.50	21.11	21.85	22.61	23.27	23.91	24.25	24.77	25.44	26.16	26.97	2.5%
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	N/A
Total Vehicles Sales	1212.3	1233.6	1265.2	1304.1	1343.8	1377.4	1409.1	1423.9	1448.8	1481.2	1516.3	1555.4	2.2%

Table 43. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
Mountain

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 44. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1314.3	1249.4	1225.4	1200.9	1217.9	1229.4	1217.6	1211.8	1191.9	1171.5	1164.8	1155.5	1155.8
TDI Diesel ICE	1.3	1.0	1.3	2.5	2.8	2.9	3.7	3.8	4.0	4.6	4.4	4.4	4.5
Total Conventional	1315.6	1250.4	1226.7	1203.3	1220.8	1232.3	1221.3	1215.6	1195.9	1176.0	1169.2	1159.9	1160.3
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	62.9	58.9	57.9	55.1	56.4	57.0	70.7	70.5	69.0	80.9	80.6	80.1	80.2
Ethanol ICE	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 Vehicle	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
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5	9.7	10.0
Electric-Gasoline Hybrid	2.2	3.2	6.6	38.0	40.7	42.9	45.0	46.9	59.6	58.4	69.7	69.0	70.9
CNG 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
CNG Bi-fuel	2.0	1.8	1.8	1.7	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9
LPG 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
LPG Bi-fuel	7.5	6.9	6.7	6.5	6.6	6.5	6.4	6.2	6.0	5.9	5.9	5.8	5.9
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	0.6
Total Alternatives	75.1	71.4	73.5	101.8	106.3	109.1	124.6	126.2	137.1	153.1	164.1	167.2	170.0
Percent Alternative Car Sales	5.40	5.40	5.65	7.80	8.01	8.13	9.26	9.40	10.28	11.52	12.31	12.60	12.78
Total New Car Sales	1390.7	1321.8	1300.2	1305.1	1327.1	1341.4	1345.9	1341.7	1333.0	1329.1	1333.3	1327.1	1330.3
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1116.3	1150.1	1105.6	1126.2	1119.5	1144.8	1121.3	1129.7	1128.5	1136.5	1164.2	1181.8	1210.2
TDI Diesel ICE	63.5	51.5	58.7	92.6	105.8	109.1	109.5	114.9	125.4	138.4	134.1	134.8	137.0
Total Conventional	1179.8	1201.6	1164.3	1218.8	1225.3	1254.0	1230.7	1244.5	1253.9	1274.9	1298.3	1316.7	1347.2
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	54.2	56.3	55.1	58.7	62.8	64.3	109.9	110.8	110.7	111.6	114.7	117.0	120.1
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	0.5	0.5	0.5	0.6	0.8	1.1	1.1	1.1	1.4	1.4	1.4	2.0	1.8
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	0.0	0.0	0.0	27.7	52.7	55.7	55.4	57.5	59.7	61.6	64.4	66.9	70.0
CNG 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
CNG Bi-fuel	5.0	5.1	4.9	5.3	5.4	5.5	5.6	5.7	5.7	5.8	6.0	6.0	6.2
LPG 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
LPG Bi-fuel	16.5	16.8	16.3	17.4	17.9	18.3	18.6	18.9	19.0	19.4	19.7	20.1	20.5
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	0.6	0.6	0.6	1.4	0.6
Total Alternatives	76.1	78.8	76.9	109.7	139.7	145.0	190.6	193.9	197.3	200.5	206.8	213.4	219.2
Percent Alternative Light Truck Sales	6.06	6.15	6.19	8.26	10.24	10.36	13.41	13.48	13.60	13.59	13.74	13.95	13.99
Total New Truck Sales	1255.9	1280.4	1241.2	1328.5	1365.0	1398.9	1421.4	1438.5	1451.2	1475.4	1505.1	1530.1	1566.4



Table 44. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
Pacific

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.71	5.77	5.91	8.03	9.14	9.27	11.39	11.51	12.01	12.61	13.06	13.32	13.44
EPACT Legislative Alternative Sales	42.73	42.51	41.13	43.09	43.92	44.63	44.97	45.12	45.13	45.46	46.22	46.80	47.71
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	53.36	80.39	81.01	81.24	113.97	114.67	111.66	153.68	138.62
Total Vehicles Sales	2646.6	2602.2	2541.4	2633.6	2692.1	2740.4	2767.3	2780.2	2784.2	2804.5	2838.3	2857.1	2896.7

Table 44. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1150.6	1147.0	1155.2	1168.9	1181.6	1189.7	1195.5	1187.2	1186.1	1190.2	1194.6	1200.5	-0.2%
TDI Diesel ICE	4.5	4.6	4.8	5.0	5.1	5.3	5.5	5.7	6.0	6.3	6.8	7.2	9.0%
Total Conventional	1155.1	1151.6	1160.0	1173.8	1186.6	1195.1	1201.0	1192.9	1192.2	1196.4	1201.4	1207.7	-0.2%
<b>Alternative-Fuel Vehicles</b>													
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	-0.6%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	79.8	79.4	79.8	80.6	81.4	81.7	81.8	80.9	80.6	80.8	81.0	81.4	1.4%
Ethanol 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	4.2%
Electric Vehicle	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	1.2%
Electric-Diesel Hybrid	12.4	12.7	12.9	13.2	13.1	13.3	13.3	13.3	13.5	13.5	13.9	14.0	N/A
Electric-Gasoline Hybrid	71.5	73.1	73.8	74.9	75.9	76.4	76.7	76.0	75.9	76.1	76.4	76.7	14.7%
CNG 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	-0.5%
CNG Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.0	0.4%
LPG 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	N/A
LPG Bi-fuel	5.9	5.8	5.9	6.0	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	-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	N/A
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	N/A
Fuel Cell Hydrogen	0.4	1.0	1.1	1.1	2.3	2.2	2.2	2.3	2.3	2.4	2.8	2.9	N/A
Total Alternatives	172.4	174.5	176.1	178.3	181.2	182.3	182.9	181.3	181.2	181.6	182.9	183.8	4.2%
Percent Alternative Car Sales	12.99	13.16	13.18	13.19	13.25	13.23	13.22	13.19	13.19	13.18	13.21	13.21	4.0%
Total New Car Sales	1327.5	1326.1	1336.1	1352.2	1367.9	1377.3	1383.9	1374.1	1373.3	1378.0	1384.3	1391.5	0.2%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	1227.5	1242.0	1268.4	1300.2	1336.2	1363.5	1389.2	1399.5	1415.0	1444.2	1469.6	1503.9	1.2%
TDI Diesel ICE	137.8	139.4	144.8	150.6	151.4	157.7	162.1	164.3	172.4	175.6	185.9	193.9	5.9%
Total Conventional	1365.3	1381.4	1413.2	1450.9	1487.6	1521.2	1551.3	1563.8	1587.4	1619.8	1655.4	1697.8	1.5%
<b>Alternative-Fuel Vehicles</b>													
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	2.0%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	122.0	123.7	126.9	131.0	136.0	139.6	142.8	144.1	146.3	150.3	154.0	158.6	4.6%
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	N/A
Electric Vehicle	1.6	2.7	3.0	3.1	5.6	5.4	5.3	5.3	5.3	5.2	5.7	5.6	10.7%
Electric-Diesel Hybrid	0.0	4.4	4.5	6.7	6.8	7.1	12.2	12.4	12.9	13.1	13.7	14.2	N/A
Electric-Gasoline Hybrid	72.5	72.6	74.2	75.2	77.4	79.1	78.1	78.7	79.7	81.3	83.0	84.8	N/A
CNG 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	0.6%
CNG Bi-fuel	6.3	6.4	6.5	6.7	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.9	1.9%
LPG 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	2.9%
LPG Bi-fuel	20.8	21.2	21.7	22.3	22.9	23.4	23.9	24.1	24.5	25.0	25.5	26.2	2.0%
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	N/A
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	N/A
Fuel Cell Hydrogen	0.5	1.2	1.2	1.3	2.6	2.5	2.4	2.4	2.3	2.1	2.2	2.1	N/A
Total Alternatives	223.8	232.1	238.1	246.3	258.3	264.1	272.0	274.2	278.3	284.5	291.9	299.4	6.0%
Percent Alternative Light Truck Sales	14.08	14.39	14.42	14.51	14.79	14.79	14.92	14.92	14.92	14.94	14.99	14.99	3.9%
Total New Truck Sales	1589.2	1613.6	1651.3	1697.2	1745.8	1785.3	1823.3	1838.1	1865.7	1904.3	1947.3	1997.2	2.0%

Table 44. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
Pacific

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.58	13.83	13.87	13.93	14.12	14.11	14.18	14.18	14.19	14.20	14.25	14.26	4.0%
EPACT Legislative Alternative Sales	48.26	48.85	49.85	51.09	52.40	53.43	54.41	54.71	55.39	56.37	57.48	58.75	1.4%
Z EVP Legislative Alternative Sales	126.58	190.90	202.18	208.19	296.88	291.85	290.75	293.00	292.83	289.32	307.66	307.78	N/A
Total Vehicles Sales	2916.6	2939.6	2987.4	3049.4	3113.7	3162.6	3207.1	3212.2	3239.0	3282.3	3331.6	3388.7	1.2%

Table 44. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
Pacific

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 45. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	8162.3	7726.8	7554.0	7383.1	7497.3	7564.6	7479.5	7435.0	7326.0	7198.9	7146.6	7079.3	7070.1
TDI Diesel ICE	7.0	6.0	7.7	14.8	15.7	15.4	19.6	20.0	20.2	23.7	23.6	23.6	24.3
Total Conventional	8169.3	7732.8	7561.7	7397.8	7512.9	7580.1	7499.1	7455.0	7346.2	7222.6	7170.2	7102.9	7094.4
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	390.4	364.4	357.0	338.6	347.1	350.8	434.3	432.4	424.3	497.2	494.4	490.9	490.4
Ethanol ICE	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9
Electric Vehicle	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	29.5	52.9	55.1
Electric-Gasoline Hybrid	13.4	19.7	40.0	229.9	244.0	257.5	270.0	280.9	354.4	349.7	416.2	413.1	424.1
CNG 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
CNG Bi-fuel	12.1	11.2	10.8	10.5	12.3	12.3	11.9	11.6	11.2	11.0	10.9	10.8	10.8
LPG 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
LPG Bi-fuel	46.3	42.9	41.1	40.2	40.6	40.1	39.2	38.1	37.0	35.9	36.0	35.7	35.8
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	0.9
Total Alternatives	465.4	441.2	451.8	622.1	646.9	663.6	758.2	765.9	829.8	925.4	989.9	1006.4	1020.1
Percent Alternative Car Sales	5.39	5.40	5.64	7.76	7.93	8.05	9.18	9.32	10.15	11.36	12.13	12.41	12.57
Total New Car Sales	8634.7	8174.1	8013.5	8019.9	8159.9	8243.7	8257.3	8220.9	8175.9	8148.0	8160.1	8109.3	8114.5
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	6992.4	7121.2	6825.9	6938.2	6969.0	7143.0	6982.1	7040.6	7088.7	7123.8	7255.3	7355.9	7498.8
TDI Diesel ICE	328.6	309.1	349.3	553.4	568.9	565.7	567.1	582.4	602.2	692.0	693.1	698.4	723.8
Total Conventional	7321.0	7430.3	7175.2	7491.5	7537.9	7708.7	7549.2	7623.0	7690.9	7815.8	7948.4	8054.2	8222.6
<b>Alternative-Fuel Vehicles</b>													
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
Methanol 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	340.7	349.1	340.6	361.8	391.2	401.3	683.3	689.4	693.9	697.9	713.4	726.0	742.5
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	3.3	3.4	3.3	3.5	4.0	4.5	4.5	4.5	5.1	5.2	5.2	6.3	5.9
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	0.0	0.0	0.0	167.5	316.8	335.8	334.2	346.2	358.4	370.1	386.4	401.2	419.6
CNG 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
CNG Bi-fuel	30.8	31.2	30.2	32.2	33.1	33.9	34.4	34.8	35.1	35.7	36.3	36.9	37.7
LPG ICE	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
LPG Bi-fuel	102.3	103.9	100.3	107.1	110.1	112.8	114.4	115.6	116.8	118.6	120.8	122.6	125.3
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	1.0	1.0	1.0	2.4	1.0
Total Alternatives	477.1	487.6	474.4	672.1	855.3	888.4	1170.9	1190.6	1210.5	1228.7	1263.2	1295.5	1332.2
Percent Alternative Light Truck Sales	6.12	6.16	6.20	8.23	10.19	10.33	13.43	13.51	13.60	13.59	13.71	13.86	13.94
Total New Truck Sales	7798.2	7917.9	7649.7	8163.6	8393.3	8597.1	8720.1	8813.6	8901.4	9044.5	9211.7	9349.7	9554.7

Table 45. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.74	5.77	5.91	8.00	9.08	9.22	11.36	11.49	11.95	12.53	12.97	13.18	13.31
EPACT Legislative Alternative Sales	265.29	262.88	253.49	264.77	270.07	274.25	275.90	276.46	276.82	278.69	282.89	285.95	291.04
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	89.57	134.91	135.93	136.30	191.17	192.29	187.22	257.60	232.30
Total Vehicles Sales	16432.9	16092.0	15663.2	16183.6	16553.1	16840.7	16977.4	17034.4	17077.4	17192.5	17371.8	17459.0	17669.3

Table 45. Light-Duty Vehicle Sales by Technology Type

(Thousands)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	7024.4	6991.0	7030.5	7104.4	7171.0	7208.5	7231.5	7173.2	7165.4	7183.5	7213.3	7246.4	-0.3%
TDI Diesel ICE	24.4	24.9	25.7	26.7	27.6	28.7	29.8	30.6	31.8	33.0	35.0	37.1	8.2%
Total Conventional	7048.8	7015.9	7056.2	7131.1	7198.6	7237.3	7261.4	7203.8	7197.2	7216.5	7248.3	7283.6	-0.3%
<b>Alternative-Fuel Vehicles</b>													
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	-0.7%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	487.2	483.6	485.5	489.8	493.3	494.4	494.5	488.4	486.4	486.9	488.4	490.3	1.3%
Ethanol ICE	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	3.9%
Electric Vehicle	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	-0.3%
Electric-Diesel Hybrid	68.4	70.3	71.1	71.9	72.4	73.1	73.5	73.2	73.2	73.0	73.8	74.4	N/A
Electric-Gasoline Hybrid	427.5	436.9	440.6	446.5	451.7	454.5	455.9	451.2	450.3	451.1	452.6	454.0	14.6%
CNG 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	-0.5%
CNG Bi-fuel	10.7	10.7	10.7	10.9	11.0	11.1	11.1	11.0	11.0	11.1	11.1	11.2	0.0%
LPG 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	N/A
LPG Bi-fuel	35.6	35.5	35.7	36.1	36.5	36.7	36.8	36.5	36.4	36.5	36.7	36.9	-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	N/A
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	N/A
Fuel Cell Hydrogen	0.7	1.6	1.9	1.9	3.8	3.7	3.7	3.9	3.9	4.1	4.7	4.8	N/A
Total Alternatives	1033.1	1041.8	1048.8	1060.5	1072.1	1076.8	1079.0	1067.6	1064.8	1066.3	1071.0	1075.5	3.9%
Percent Alternative Car Sales	12.78	12.93	12.94	12.95	12.96	12.95	12.94	12.91	12.89	12.87	12.87	12.87	3.8%
Total New Car Sales	8081.9	8057.7	8105.0	8191.6	8270.7	8314.1	8340.4	8271.4	8262.0	8282.8	8319.3	8359.0	0.1%
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	7587.6	7666.4	7822.2	8014.4	8215.8	8373.9	8516.4	8568.2	8682.5	8851.7	9030.2	9243.7	1.1%
TDI Diesel ICE	728.3	740.3	763.3	788.2	809.8	837.2	861.3	873.3	892.8	908.2	944.0	977.9	5.1%
Total Conventional	8316.0	8406.7	8585.5	8802.6	9025.6	9211.1	9377.7	9441.5	9575.3	9759.9	9974.2	10221.7	1.4%
<b>Alternative-Fuel Vehicles</b>													
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	1.8%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	753.1	761.8	780.6	805.2	832.5	853.6	872.2	878.5	894.3	917.7	942.7	970.8	4.5%
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	N/A
Electric Vehicle	5.7	7.6	8.1	8.3	12.6	12.3	12.2	12.4	12.3	12.2	13.1	13.1	6.1%
Electric-Diesel Hybrid	0.0	23.8	24.6	36.3	37.4	38.6	67.0	67.8	69.2	70.4	72.8	74.9	N/A
Electric-Gasoline Hybrid	434.4	435.5	445.2	451.5	463.6	473.2	467.7	470.8	477.5	486.8	497.1	508.2	N/A
CNG 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	0.7%
CNG Bi-fuel	38.2	38.7	39.5	40.6	41.6	42.5	43.4	43.6	44.3	45.2	46.2	47.3	1.8%
LPG 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	3.0%
LPG Bi-fuel	126.9	128.6	131.4	134.9	138.5	141.4	144.1	145.1	147.2	150.1	153.5	157.4	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	N/A
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	N/A
Fuel Cell Hydrogen	0.8	2.0	2.1	2.2	4.4	4.2	4.0	4.0	3.8	3.5	3.7	3.4	N/A
Total Alternatives	1359.2	1398.1	1431.6	1479.0	1530.7	1565.8	1610.7	1622.3	1648.7	1686.1	1729.2	1775.3	5.8%
Percent Alternative Light Truck Sales	14.05	14.26	14.29	14.38	14.50	14.53	14.66	14.66	14.69	14.73	14.78	14.80	3.9%
Total New Truck Sales	9675.2	9804.8	10017.1	10281.6	10556.3	10776.9	10988.4	11063.8	11224.0	11446.0	11703.4	11997.0	1.8%

Table 45. Light-Duty Vehicle Sales by Technology Type  
(Thousands)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Percent Total Alternative Sales	13.47	13.66	13.69	13.75	13.83	13.84	13.92	13.91	13.93	13.95	13.99	14.00	3.9%
EPACT Legislative Alternative Sales	293.79	296.82	302.38	309.49	316.81	322.55	327.94	329.33	333.22	338.83	345.43	352.94	1.3%
ZEVP Legislative Alternative Sales	212.08	319.78	338.61	348.61	497.03	488.51	486.58	490.24	489.87	483.90	514.47	514.54	N/A
Total Vehicles Sales	17757.1	17862.5	18122.2	18473.2	18827.0	19091.0	19328.8	19335.2	19486.0	19728.7	20022.8	20356.0	1.0%



Table 45. Light-Duty Vehicle Sales by Technology Type  
(Thousands)  
United States

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.

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 46. Light-Duty Vehicle Stock by Technology Type  
(Millions)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Car Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	127.31	127.67	127.61	127.21	126.76	126.34	125.78	125.16	124.43	123.61	122.78	121.93	121.11
TDI Diesel ICE	0.52	0.46	0.41	0.37	0.34	0.32	0.31	0.30	0.29	0.29	0.29	0.30	0.30
Total Conventional	127.83	128.13	128.02	127.58	127.11	126.66	126.08	125.45	124.72	123.90	123.08	122.23	121.41
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol 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	0.94	1.30	1.65	1.97	2.28	2.60	2.98	3.35	3.70	4.10	4.48	4.83	5.17
Ethanol ICE	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
Natural Gas Technology													
CNG 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
CNG Bi-fuel	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.13
LPG 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
LPG Bi-fuel	0.06	0.10	0.14	0.18	0.21	0.25	0.28	0.31	0.34	0.37	0.39	0.41	0.43
Electric Technology													
Electric Vehicle	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
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.11	0.17
Electric-Gasoline Hybrid	0.02	0.04	0.08	0.31	0.55	0.81	1.08	1.36	1.71	2.05	2.45	2.83	3.21
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	0.00
Total Alternatives	1.06	1.50	1.93	2.53	3.14	3.76	4.46	5.15	5.89	6.69	7.53	8.35	9.15
Total Car Stock	128.89	129.62	129.96	130.11	130.25	130.43	130.55	130.61	130.61	130.59	130.60	130.58	130.55

Table 46. Light-Duty Vehicle Stock by Technology Type  
(Millions)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Truck Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	65.68	70.03	73.92	77.77	81.50	85.23	88.60	91.84	94.92	97.84	100.69	103.43	106.10
TDI Diesel ICE	1.59	1.83	2.11	2.59	3.08	3.57	4.05	4.53	5.02	5.58	6.13	6.65	7.18
Total Conventional	67.27	71.85	76.02	80.35	84.58	88.79	92.64	96.37	99.94	103.42	106.81	110.08	113.29
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
Methanol 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	0.80	1.14	1.47	1.82	2.19	2.56	3.21	3.84	4.47	5.08	5.69	6.29	6.88
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													
CNG 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
CNG Bi-fuel	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.40	0.43
LPG 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
LPG Bi-fuel	0.19	0.29	0.38	0.49	0.59	0.70	0.80	0.90	1.00	1.10	1.19	1.28	1.37
Electric Technology													
Electric Vehicle	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06
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	0.17	0.48	0.82	1.15	1.50	1.85	2.21	2.57	2.94	3.31
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	1.08	1.56	2.02	2.67	3.49	4.34	5.46	6.57	7.68	8.78	9.88	10.97	12.05
Total Truck Stock	68.35	73.41	78.04	83.02	88.07	93.13	98.10	102.94	107.62	112.21	116.70	121.05	125.33
Total Vehicle Stock	197.24	203.03	208.00	213.13	218.32	223.56	228.65	233.55	238.23	242.80	247.30	251.63	255.89

Table 46. Light-Duty Vehicle Stock by Technology Type  
(Millions)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Light-Duty Car Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	120.28	119.47	118.75	118.16	117.68	117.29	116.98	116.65	116.35	116.12	115.96	115.86	-0.4%
TDI Diesel ICE	0.31	0.32	0.32	0.33	0.35	0.36	0.37	0.38	0.39	0.41	0.42	0.44	-0.2%
Total Conventional	120.59	119.79	119.08	118.49	118.03	117.65	117.35	117.03	116.75	116.53	116.38	116.30	-0.4%
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	-10.8%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	5.48	5.76	6.02	6.26	6.48	6.68	6.86	7.01	7.14	7.26	7.36	7.44	7.9%
Ethanol ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	7.3%
Natural Gas Technology													
CNG 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	1.5%
CNG Bi-fuel	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	7.0%
LPG 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	N/A
LPG Bi-fuel	0.45	0.46	0.48	0.49	0.50	0.51	0.51	0.52	0.53	0.53	0.53	0.54	7.6%
Electric Technology													
Electric Vehicle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	5.6%
Electric-Diesel Hybrid	0.23	0.30	0.38	0.45	0.51	0.58	0.64	0.71	0.76	0.81	0.86	0.91	N/A
Electric-Gasoline Hybrid	3.58	3.94	4.29	4.62	4.94	5.23	5.50	5.75	5.97	6.16	6.34	6.50	24.7%
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	N/A
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	N/A
Fuel Cell Hydrogen	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	N/A
Total Alternatives	9.92	10.65	11.35	12.01	12.64	13.21	13.74	14.21	14.63	15.00	15.34	15.64	10.7%
Total Car Stock	130.51	130.44	130.43	130.51	130.66	130.86	131.09	131.24	131.38	131.53	131.72	131.93	0.1%

Table 46. Light-Duty Vehicle Stock by Technology Type  
(Millions)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Light-Duty Truck Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	108.67	111.12	113.54	115.96	118.41	120.85	123.27	125.58	127.86	130.17	132.51	134.93	2.9%
TDI Diesel ICE	7.70	8.19	8.68	9.16	9.64	10.11	10.58	11.03	11.46	11.88	12.31	12.75	8.8%
Total Conventional	116.36	119.31	122.21	125.13	128.05	130.96	133.85	136.61	139.32	142.05	144.82	147.68	3.2%
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	-7.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	7.45	8.00	8.53	9.06	9.58	10.09	10.58	11.04	11.49	11.93	12.36	12.79	11.1%
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	N/A
Natural Gas Technology													
CNG 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	3.5%
CNG Bi-fuel	0.45	0.47	0.49	0.52	0.54	0.56	0.57	0.59	0.61	0.63	0.64	0.66	7.9%
LPG 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	-0.7%
LPG Bi-fuel	1.45	1.53	1.61	1.68	1.75	1.82	1.89	1.95	2.01	2.06	2.12	2.18	9.2%
Electric Technology													
Electric Vehicle	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.15	12.9%
Electric-Diesel Hybrid	0.00	0.02	0.05	0.08	0.12	0.16	0.23	0.29	0.36	0.43	0.49	0.56	N/A
Electric-Gasoline Hybrid	3.68	4.04	4.39	4.72	5.05	5.37	5.66	5.93	6.19	6.43	6.67	6.89	N/A
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	N/A
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	N/A
Fuel Cell Hydrogen	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	N/A
Total Alternatives	13.10	14.14	15.15	16.15	17.15	18.11	19.06	19.95	20.81	21.65	22.47	23.27	12.5%
Total Truck Stock	129.46	133.44	137.37	141.28	145.20	149.07	152.91	156.56	160.14	163.70	167.29	170.95	3.7%
Total Vehicle Stock	259.97	263.88	267.80	271.79	275.86	279.94	284.00	287.80	291.51	295.23	299.01	302.89	1.8%

Table 46. Light-Duty Vehicle Stock by Technology Type  
(Millions)

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2002 derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, Transportation Energy Data Book: 22 and Annual (Oak Ridge, TN, September 2002); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type  
(Miles per Gallon Gasoline Equivalent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	28.05	28.03	28.30	28.04	28.04	28.22	28.16	27.95	28.16	28.44	28.56	28.86	29.08
TDI Diesel ICE	40.73	40.51	40.56	37.58	37.45	37.17	36.06	35.69	35.78	36.61	36.63	36.76	36.88
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	27.25	27.25	27.32	27.28	27.17	27.42	27.34	27.14	27.31	27.60	27.72	27.99	28.16
Methanol 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	28.11	28.08	28.30	28.13	28.12	28.37	27.46	27.22	27.40	28.17	28.27	28.53	28.73
Ethanol ICE	27.78	27.77	27.84	27.79	27.67	27.92	27.82	27.61	27.79	28.09	28.20	28.47	28.65
Natural Gas Technology													
CNG ICE	27.66	27.62	27.74	27.51	27.42	27.39	27.25	27.01	27.17	27.41	27.51	27.74	27.93
CNG Bi-fuel	30.25	30.22	30.31	30.32	27.12	27.01	26.87	26.65	26.83	27.09	27.25	27.56	27.75
LPG 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
LPG Bi-fuel	0.00	0.00	0.00	0.00	26.87	26.71	26.55	26.37	26.55	26.86	27.01	27.31	27.50
Electric Technology													
Electric Vehicle	34.45	34.82	35.59	39.18	43.11	48.01	54.23	53.45	53.37	53.37	53.33	53.17	53.18
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.24	48.06	45.83	45.65
Electric-Gasoline Hybrid	43.49	43.34	43.49	39.69	39.57	39.24	38.90	38.52	38.02	37.87	38.67	38.72	38.73
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.46	38.43	38.42	38.40	38.39	38.37
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	62.21	61.41	60.58	59.72	59.70	59.73	59.70	59.71	50.18
Average New Car MPG	28.23	28.21	28.51	28.44	28.30	28.48	28.39	28.19	28.45	28.78	28.98	29.30	29.53

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type  
(Miles per Gallon Gasoline Equivalent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	20.45	20.46	20.54	20.43	20.55	21.56	22.28	22.04	22.10	22.20	22.28	22.48	22.62
TDI Diesel ICE	24.64	24.55	24.59	25.88	25.88	26.75	27.71	27.37	27.34	28.00	28.01	28.07	28.10
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
Methanol 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	19.90	19.88	20.06	19.87	19.85	20.51	22.13	21.96	22.06	22.21	22.33	22.57	22.76
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													
CNG ICE	19.69	19.67	19.68	19.64	19.74	20.34	20.93	20.70	20.73	20.85	20.91	21.05	21.15
CNG Bi-fuel	18.60	18.57	18.60	18.54	18.65	19.22	19.70	19.49	19.52	19.63	19.69	19.83	19.90
LPG ICE	18.96	18.94	18.96	18.93	19.06	19.70	20.38	20.18	20.23	20.41	20.50	20.70	20.82
LPG Bi-fuel	18.60	18.58	18.61	18.56	18.67	19.30	19.91	19.70	19.75	19.90	19.98	20.17	20.27
Electric Technology													
Electric Vehicle	21.87	22.08	22.55	24.81	27.94	31.56	36.03	35.50	35.91	35.81	35.66	36.25	35.89
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	30.58	30.49	31.13	31.80	31.38	31.30	31.21	31.15	31.13	31.11
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	38.10	38.06
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	45.16	46.00	46.07	45.40	45.31	45.22	45.13	45.04	44.95
Average New Truck MPG	20.54	20.53	20.64	20.81	21.03	22.01	22.77	22.55	22.62	22.79	22.87	23.07	23.21
Fleet Average Stock Car MPG 2/	21.80	21.81	21.85	21.88	21.90	21.94	21.99	22.02	22.07	22.14	22.23	22.34	22.46
Fleet Average Stock Truck MPG 2/	16.88	16.81	16.76	16.73	16.73	16.81	16.95	17.07	17.19	17.30	17.42	17.54	17.66
Fleet Average Stock Vehicle MPG 2/	19.80	19.69	19.61	19.54	19.47	19.47	19.50	19.53	19.56	19.61	19.67	19.74	19.82



Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type  
(Miles per Gallon Gasoline Equivalent)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	29.26	29.39	29.53	29.65	29.74	29.83	29.91	30.01	30.09	30.16	30.23	30.28	0.3%
TDI Diesel ICE	37.03	37.15	37.27	37.38	37.48	37.60	37.70	37.83	37.97	38.10	38.24	38.38	-0.2%
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	28.36	28.50	28.64	28.77	28.87	28.98	29.05	29.14	29.21	29.28	29.34	29.39	0.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	28.93	29.10	29.27	29.43	29.57	29.70	29.81	29.93	30.03	30.11	30.19	30.25	0.3%
Ethanol ICE	28.84	29.00	29.14	29.27	29.37	29.47	29.56	29.66	29.73	29.81	29.87	29.93	0.3%
Natural Gas Technology													
CNG ICE	28.14	28.25	28.38	28.48	28.56	28.64	28.71	28.80	28.87	28.93	28.96	28.99	0.2%
CNG Bi-fuel	27.90	28.04	28.18	28.29	28.37	28.44	28.52	28.59	28.64	28.69	28.72	28.74	-0.2%
LPG 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	N/A
LPG Bi-fuel	27.69	27.86	28.03	28.19	28.29	28.40	28.48	28.57	28.64	28.70	28.75	28.80	N/A
Electric Technology													
Electric Vehicle	53.18	52.74	52.59	52.50	52.51	52.39	52.29	52.28	52.26	52.24	52.29	52.29	1.8%
Electric-Diesel Hybrid	44.70	44.58	44.50	44.43	44.37	44.34	44.32	44.36	44.39	44.41	44.43	44.43	N/A
Electric-Gasoline Hybrid	38.81	38.84	38.87	38.90	38.93	38.96	38.98	39.03	39.06	39.09	39.11	39.11	-0.4%
Fuel Cell Technology													
Fuel Cell Gasoline	38.35	38.32	38.29	38.27	38.25	38.23	38.20	38.22	38.24	38.26	38.28	38.30	N/A
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	N/A
Fuel Cell Hydrogen	50.15	50.12	49.48	49.47	49.47	49.49	49.52	49.62	49.71	49.80	49.87	49.94	N/A
Average New Car MPG	29.73	29.87	30.01	30.13	30.23	30.32	30.40	30.50	30.58	30.65	30.72	30.77	0.4%

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type  
(Miles per Gallon Gasoline Equivalent)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	22.78	22.93	23.07	23.18	23.29	23.41	23.51	23.63	23.75	23.88	23.98	24.08	0.7%
TDI Diesel ICE	28.16	28.22	28.28	28.33	28.36	28.40	28.43	28.49	28.55	28.62	28.67	28.72	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	N/A
Methanol 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	N/A
Ethanol-Flex Fuel ICE	22.95	23.15	23.32	23.47	23.60	23.72	23.82	23.95	24.08	24.21	24.32	24.43	0.9%
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	N/A
Natural Gas Technology													
CNG ICE	21.24	21.35	21.47	21.56	21.64	21.74	21.80	21.90	22.01	22.13	22.22	22.30	0.5%
CNG Bi-fuel	20.00	20.12	20.22	20.28	20.34	20.40	20.47	20.55	20.63	20.73	20.78	20.84	0.5%
LPG ICE	20.97	21.13	21.28	21.41	21.53	21.65	21.73	21.86	22.00	22.13	22.25	22.35	0.7%
LPG Bi-fuel	20.42	20.57	20.71	20.80	20.90	20.98	21.06	21.17	21.27	21.39	21.50	21.58	0.7%
Electric Technology													
Electric Vehicle	35.60	36.54	36.59	36.54	37.54	37.38	37.26	37.29	37.27	37.22	37.36	37.32	2.3%
Electric-Diesel Hybrid	0.00	40.29	40.15	37.10	36.99	36.92	38.05	38.03	38.03	38.04	38.07	38.11	N/A
Electric-Gasoline Hybrid	31.12	31.04	31.06	31.15	31.16	31.18	31.19	31.26	31.33	31.40	31.46	31.52	N/A
Fuel Cell Technology													
Fuel Cell Gasoline	38.33	38.26	38.19	38.11	38.03	37.95	37.87	37.87	37.88	37.90	37.91	37.92	N/A
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	N/A
Fuel Cell Hydrogen	44.77	44.69	44.61	44.53	44.45	44.38	44.32	44.35	44.39	44.44	44.47	44.51	N/A
Average New Truck MPG	23.36	23.54	23.68	23.79	23.91	24.02	24.13	24.26	24.37	24.50	24.60	24.70	0.8%
Fleet Average Stock Car MPG 2/	22.59	22.74	22.90	23.06	23.23	23.40	23.58	23.66	23.74	23.83	23.91	23.99	0.4%
Fleet Average Stock Truck MPG 2/	17.78	17.90	18.02	18.13	18.24	18.34	18.45	18.56	18.67	18.78	18.88	18.98	0.5%
Fleet Average Stock Vehicle MPG 2/	19.91	20.00	20.10	20.20	20.30	20.41	20.51	20.58	20.66	20.73	20.81	20.88	0.3%

Table 47. 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.

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type  
(Billion Miles, Unless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Conventional Vehicles 1/ Gasoline ICE Vehicles	2428.9	2433.8	2465.9	2528.7	2573.9	2617.5	2654.6	2691.8	2728.4	2767.0	2805.6	2849.1	2896.4
TDI Diesel ICE	25.5	27.1	29.6	35.3	41.0	46.7	52.3	58.2	64.2	71.4	78.5	85.7	93.1
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Methanol 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	22.8	32.0	41.1	50.6	59.9	68.5	80.9	93.2	105.2	118.0	130.6	143.3	155.9
Ethanol ICE	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
Natural Gas Technology													
CNG 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
CNG Bi-fuel	2.1	2.8	3.5	4.3	5.0	5.5	6.0	6.5	7.0	7.4	7.9	8.3	8.7
LPG 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
LPG Bi-fuel	4.8	7.6	10.2	13.0	15.7	17.6	19.3	21.0	22.5	24.1	25.6	27.0	28.5
Electric Technology													
Electric Vehicle	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.4	2.1
Electric-Gasoline Hybrid	0.3	0.5	1.0	5.7	12.5	19.6	26.9	34.5	43.1	51.8	61.4	71.1	81.1
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
VMT Equation Components													
Total VMT (billion miles)	2484.8	2504.3	2552.0	2638.3	2708.8	2776.2	2841.0	2906.2	2971.6	3041.3	3111.6	3187.3	3267.4
VMT/Driving Population (thousand miles)	11.2	11.4	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.7	12.9	13.0
Driving Population (million)	221.5	224.3	226.9	229.4	231.9	234.5	237.0	239.5	241.8	244.1	246.2	248.3	250.4
Price Effects													
Motor Gasoline Price (1987 dollars/million Btu)	8.41	7.82	8.79	8.01	8.14	8.21	8.25	8.28	8.33	8.32	8.34	8.31	8.31
Fleet Miles per Gallon	19.91	19.78	19.68	19.59	19.51	19.50	19.53	19.56	19.59	19.64	19.70	19.78	19.87
Real Cost of Driving per Mile (1987 cents)	6.809	6.373	7.200	6.591	6.728	6.789	6.809	6.826	6.851	6.833	6.821	6.775	6.747
Point Price Elasticity	-0.059	-0.054	-0.061	-0.055	-0.055	-0.055	-0.055	-0.054	-0.054	-0.053	-0.052	-0.051	-0.050
Income Effects													
Disposable Income (billion 1987 dollars)	5838.9	6084.6	6268.0	6538.9	6710.5	6894.6	7064.2	7257.5	7463.2	7695.3	7916.8	8174.7	8452.3
Point Income Elasticity	539.336	545.306	553.708	561.238	563.396	567.531	570.899	575.863	581.359	587.695	592.701	599.050	605.716
Demographic Driving Population Effect													
Percentage Female Driving Population	0.610	0.617	0.624	0.630	0.636	0.641	0.646	0.650	0.654	0.658	0.661	0.664	0.666
Point Demographic Elasticity	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type  
(Billion Miles, Unless Otherwise Noted)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Conventional Vehicles 1/ Gasoline ICE Vehicles	2936.4	2975.4	3014.4	3054.2	3096.7	3140.4	3186.3	3233.2	3282.1	3335.0	3392.1	3455.1	1.5%
TDI Diesel ICE	100.2	107.2	114.1	121.1	128.0	135.0	142.0	148.9	155.9	163.0	170.3	178.1	8.5%
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	-11.6%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	167.9	179.4	190.6	201.4	212.0	222.3	232.4	242.0	251.3	260.6	269.9	279.4	9.9%
Ethanol ICE	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.9%
Natural Gas Technology													
CNG 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	2.4%
CNG Bi-fuel	9.2	9.5	9.9	10.3	10.6	11.0	11.3	11.7	12.0	12.3	12.6	13.0	6.8%
LPG 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	-0.1%
LPG Bi-fuel	29.9	31.3	32.6	33.8	35.1	36.3	37.5	38.6	39.6	40.7	41.8	42.9	7.8%
Electric Technology													
Electric Vehicle	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.4	2.5	2.6	9.3%
Electric-Diesel Hybrid	2.9	4.1	5.4	6.8	8.1	9.6	11.3	13.0	14.8	16.5	18.2	19.9	N/A
Electric-Gasoline Hybrid	90.9	100.6	110.0	119.1	128.0	136.6	144.7	152.5	159.9	167.0	174.0	180.8	29.4%
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	N/A
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	N/A
Fuel Cell Hydrogen	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	N/A
VMT Equation Components													
Total VMT (billion miles)	3339.0	3409.2	3478.8	3548.7	3620.9	3693.7	3768.2	3842.8	3918.9	3998.5	4082.5	4173.0	2.2%
VMT/Driving Population (thousand miles)	13.2	13.4	13.6	13.7	13.9	14.1	14.3	14.4	14.6	14.8	15.0	15.2	1.2%
Driving Population (million)	252.5	254.5	256.5	258.4	260.4	262.3	264.3	266.2	268.2	270.2	272.2	274.3	0.9%
Price Effects													
Motor Gasoline Price (1987 dollars/million Btu)	8.31	8.32	8.34	8.34	8.33	8.34	8.34	8.36	8.38	8.40	8.44	8.45	0.3%
Fleet Miles per Gallon	19.96	20.06	20.16	20.27	20.38	20.49	20.59	20.67	20.75	20.83	20.91	20.98	0.3%
Real Cost of Driving per Mile (1987 cents)	6.713	6.685	6.669	6.635	6.593	6.563	6.532	6.516	6.511	6.497	6.505	6.496	0.1%
Point Price Elasticity	-0.050	-0.049	-0.048	-0.047	-0.046	-0.045	-0.045	-0.044	-0.043	-0.043	-0.042	-0.042	-1.1%
Income Effects													
Disposable Income (billion 1987 dollars)	8691.1	8938.0	9190.6	9441.0	9710.6	9979.1	10265.3	10550.3	10856.0	11187.8	11557.4	11963.4	3.0%
Point Income Elasticity	609.666	614.084	618.734	622.980	627.873	632.408	637.540	642.386	648.064	654.479	662.166	670.553	0.9%
Demographic Driving Population Effect													
Percentage Female Driving Population	0.668	0.670	0.672	0.674	0.675	0.676	0.677	0.677	0.677	0.677	0.677	0.677	0.4%
Point Demographic Elasticity	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	N/A

Table 48. 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.

N/A = Not applicable.

Sources: 2002 derived using: Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, Transportation Energy Data Book: 22 and Annual (Oak Ridge, TN, September 2002); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	24.545	24.954	25.107	25.178	25.198	25.921	25.911	25.777	26.068	26.545	26.710	26.988	27.153
Subcompact	31.031	30.992	31.040	30.951	30.800	30.864	30.726	30.483	30.665	30.998	31.155	31.508	31.769
Compact	30.254	30.241	30.307	30.294	30.155	30.416	30.333	30.106	30.300	30.624	30.781	31.124	31.379
Midsized	26.717	26.730	26.808	26.781	26.685	26.942	26.867	26.669	26.834	27.114	27.229	27.506	27.674
Large	25.226	25.231	25.240	25.163	25.019	25.056	24.941	24.754	24.922	25.219	25.348	25.611	25.825
Two Seater	24.927	25.082	25.109	25.112	25.005	25.120	25.058	24.896	25.105	25.424	25.591	25.895	26.109
Average New Car	28.005	27.985	28.300	27.994	28.027	28.202	28.154	27.942	28.159	28.426	28.546	28.845	29.066
Average New Car On-Road MPG	20.744	20.819	21.141	21.001	21.104	21.325	21.380	21.310	21.566	21.863	22.047	22.372	22.638
Conventional Light Trucks													
Small Pickup	22.290	22.329	22.394	22.393	22.528	23.986	24.986	24.696	24.724	24.802	24.868	25.057	25.226
Large Pickup	18.902	18.894	18.919	18.867	18.977	19.644	20.204	20.000	20.056	20.212	20.305	20.515	20.637
Small Van	23.198	23.186	23.219	23.138	23.195	24.431	25.091	24.795	24.809	24.873	24.916	25.060	25.172
Large Van	18.106	18.081	18.110	18.101	18.229	18.837	19.535	19.345	19.412	19.600	19.695	19.908	20.030
Small Utility	21.177	21.234	21.300	21.297	21.447	22.939	23.978	23.712	23.754	23.854	23.926	24.142	24.295
Large Utility	17.540	17.526	17.559	17.522	17.628	18.220	18.871	18.695	18.777	18.960	19.067	19.281	19.412
Average New Light Truck	20.564	20.575	20.658	20.552	20.674	21.716	22.443	22.210	22.264	22.361	22.438	22.638	22.776
Average New Light Truck On-Road MPG	16.536	16.531	16.582	16.482	16.558	17.378	17.945	17.746	17.775	17.838	17.886	18.032	18.128
Degradation Factors 1/													
Cars	0.741	0.744	0.747	0.750	0.753	0.756	0.759	0.763	0.766	0.769	0.772	0.776	0.779
Light Trucks	0.804	0.803	0.803	0.802	0.801	0.800	0.800	0.799	0.798	0.798	0.797	0.797	0.796
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	0.00	0.00	0.00	0.00	0.00	0.00	43.95	43.37	43.40	43.48	43.46	43.48	43.45
Subcompact	34.461	34.831	35.598	39.183	57.816	57.211	58.851	58.255	59.634	30.932	35.650	35.611	35.695
Compact	31.581	32.118	33.176	34.456	34.437	34.710	34.727	34.614	34.922	36.179	36.408	36.783	37.075
Midsized	26.985	26.992	27.067	31.756	31.678	31.795	31.687	31.480	31.650	31.902	32.035	32.634	32.835
Large	27.238	27.200	27.205	27.103	25.103	24.886	25.019	24.734	28.678	28.842	29.005	29.259	29.454
Two Seater	36.068	36.072	36.071	36.015	35.735	35.473	35.160	34.810	34.856	34.974	35.012	35.131	35.199
Average New Alternative Cars	28.552	28.735	29.626	32.512	32.516	32.682	31.376	31.188	31.802	32.179	32.913	33.311	33.531
Alternative-Fuel Light Trucks													
Small Pickup	22.510	22.548	22.610	22.602	22.736	24.210	25.277	24.986	25.017	25.100	25.166	25.363	25.542
Large Pickup	19.089	19.085	19.108	19.064	19.175	19.850	20.499	20.292	20.348	20.508	20.602	20.814	20.964
Small Van	23.429	23.414	23.446	23.360	27.855	28.959	29.629	29.305	29.310	29.490	29.507	29.587	29.644
Large Van	18.927	18.864	18.891	18.892	18.279	18.576	19.106	18.919	18.999	19.260	19.394	19.728	19.933
Small Utility	24.764	25.040	25.578	30.578	30.486	31.515	26.432	26.281	26.495	26.700	26.878	27.167	27.365
Large Utility	17.715	17.703	17.735	17.705	19.692	20.191	20.890	20.723	20.813	20.983	21.086	21.299	21.438
Average New Alternative Light Trucks	19.964	19.935	20.167	22.953	24.254	25.020	25.044	24.863	25.006	25.150	25.268	25.503	25.663
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	28.250	28.248	28.309	28.269	28.092	28.273	28.134	27.921	28.095	28.427	28.561	28.863	29.072
Light Trucks	19.495	19.485	19.519	19.480	19.564	20.340	21.007	20.790	20.846	20.996	21.083	21.283	21.408
Average On-Road MPG													
Cars	20.795	20.889	21.016	21.150	21.213	21.312	21.380	21.416	21.502	21.621	21.786	22.052	22.333
Light Trucks	15.696	15.690	15.661	15.624	15.613	15.736	15.965	16.151	16.347	16.555	16.669	16.716	16.796

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Vehicle Sales Shares (%)</b>													
<b>Conventional Cars</b>													
Minicompact	0.359	0.353	0.420	0.347	0.387	0.385	0.383	0.382	0.381	0.379	0.380	0.378	0.378
Subcompact	13.756	13.463	15.792	13.240	14.572	14.467	14.456	14.438	14.480	14.408	14.446	14.379	14.418
Compact	32.384	32.240	35.674	31.817	33.872	33.716	33.644	33.643	33.677	33.600	33.604	33.528	33.596
Midsize	35.755	35.866	32.806	36.196	34.481	34.612	34.679	34.677	34.629	34.696	34.686	34.751	34.694
Large	16.033	16.360	13.649	16.677	14.989	15.113	15.138	15.160	15.137	15.219	15.187	15.265	15.215
Two Seater	1.713	1.718	1.660	1.724	1.699	1.707	1.701	1.700	1.696	1.698	1.696	1.700	1.697
<b>Conventional Light Trucks</b>													
Small Pickup	13.009	13.036	11.495	13.200	12.311	11.739	12.116	12.362	12.432	12.471	12.456	12.474	12.451
Large Pickup	21.687	21.435	21.579	21.440	21.615	21.412	21.519	21.585	21.619	21.587	21.620	21.588	21.594
Small Van	17.025	16.933	19.276	16.696	17.996	17.263	17.631	17.757	17.865	17.801	17.808	17.754	17.792
Large Van	2.507	2.472	2.495	2.469	2.493	2.359	2.424	2.476	2.498	2.490	2.497	2.489	2.491
Small Utility	32.015	32.248	31.380	32.322	31.793	32.910	32.314	31.968	31.807	31.859	31.834	31.889	31.867
Large Utility	13.756	13.876	13.775	13.874	13.792	14.318	13.996	13.852	13.779	13.793	13.784	13.806	13.804
<b>New Vehicle Average Horsepower</b>													
<b>Conventional Cars</b>													
Minicompact	243.941	250.158	251.021	255.239	259.209	263.456	268.157	272.867	274.540	276.602	277.972	279.596	281.098
Subcompact	148.501	153.760	153.692	159.095	161.549	164.880	168.203	171.633	173.385	175.457	176.974	179.040	180.583
Compact	139.823	145.166	145.173	151.587	153.983	157.397	160.993	164.481	166.323	168.261	169.849	171.695	173.511
Midsize	180.224	186.795	187.094	194.499	197.983	202.930	207.121	211.493	213.934	216.548	218.489	220.963	223.265
Large	222.654	226.975	226.875	231.047	234.430	239.102	243.213	247.496	249.091	250.971	252.539	254.515	256.444
Two Seater	267.089	270.917	271.163	275.052	279.361	285.564	290.612	295.590	296.955	297.975	298.982	299.956	301.075
Average New Car	171.296	177.169	173.957	183.853	184.852	189.184	193.094	197.044	198.989	201.252	202.909	205.102	206.983
<b>Conventional Light Trucks</b>													
Small Pickup	164.704	170.524	170.976	177.850	180.569	191.105	199.520	202.606	203.308	204.061	204.790	205.814	206.643
Large Pickup	225.901	233.583	233.834	241.273	244.286	254.364	264.949	268.872	269.651	270.781	271.713	272.709	273.279
Small Van	183.884	190.197	190.297	196.898	199.067	208.601	214.090	217.615	218.707	219.916	221.031	222.563	223.862
Large Van	224.040	230.955	231.308	239.132	242.248	254.600	264.636	268.633	269.533	270.907	271.956	273.415	274.362
Small Utility	185.977	192.899	193.482	199.759	202.146	205.372	207.165	210.279	210.801	211.347	211.882	212.477	213.076
Large Utility	246.305	254.237	254.363	261.615	264.282	278.432	287.036	291.338	292.299	293.790	294.881	296.216	296.823
Average New Light Truck	200.765	207.697	208.319	214.844	217.613	226.366	232.466	235.953	236.701	237.648	238.504	239.517	240.282



Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>New Vehicle Average Weight</b>													
<b>Conventional Cars</b>													
Minicompact	3492.189	3477.978	3479.828	3480.816	3519.826	3534.436	3579.283	3627.400	3624.851	3617.867	3619.835	3617.866	3620.531
Subcompact	2779.715	2781.328	2784.274	2787.356	2820.173	2856.663	2896.154	2937.551	2938.724	2937.362	2938.881	2938.061	2938.392
Compact	2835.598	2837.338	2840.294	2844.626	2878.141	2906.666	2947.078	2989.144	2990.245	2988.548	2990.354	2989.570	2990.385
Midsize	3314.333	3315.769	3319.307	3323.354	3362.693	3398.000	3444.017	3492.055	3493.644	3492.711	3495.077	3494.795	3496.661
Large	3686.538	3690.390	3694.714	3698.725	3743.068	3792.917	3844.684	3897.817	3900.801	3902.128	3904.724	3905.646	3907.524
Two Seater	3011.307	3007.819	3010.400	3013.088	3048.591	3087.473	3128.818	3172.964	3173.590	3170.925	3173.158	3172.048	3174.008
Average New Car	3140.879	3146.143	3110.714	3157.871	3171.791	3208.936	3253.439	3299.406	3300.467	3300.615	3302.347	3303.047	3303.582
<b>Conventional Light Trucks</b>													
Small Pickup	3646.363	3651.545	3658.375	3665.031	3670.897	3685.966	3708.653	3763.689	3771.119	3778.620	3785.815	3793.271	3800.274
Large Pickup	4716.068	4724.008	4732.926	4741.381	4749.418	4807.652	4855.723	4925.689	4935.757	4946.622	4957.143	4968.431	4976.920
Small Van	4072.693	4078.939	4085.822	4092.344	4097.937	4103.817	4112.082	4172.240	4180.328	4188.432	4196.245	4204.204	4211.806
Large Van	4756.253	4763.736	4772.192	4779.353	4784.787	4863.248	4887.314	4957.745	4967.914	4979.146	4989.975	5001.670	5009.224
Small Utility	3868.292	3868.834	3874.984	3880.264	3884.594	3814.022	3807.967	3864.292	3871.939	3879.702	3887.288	3895.104	3902.578
Large Utility	5161.205	5169.214	5177.782	5184.972	5190.438	5276.397	5297.218	5373.041	5384.217	5396.709	5408.301	5418.885	5426.472
Average New Light Truck	4258.192	4261.955	4277.708	4275.093	4286.153	4295.902	4309.622	4371.702	4380.234	4388.985	4398.164	4406.909	4414.788
<b>Average Weight for the Stock</b>													
Conventional Cars	3130	3128	3127	3128	3130	3135	3142	3151	3161	3171	3182	3192	3203
Conventional Light Trucks	4064	4089	4112	4133	4154	4172	4189	4209	4227	4244	4261	4276	4290

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	27.296	27.412	27.515	27.611	27.674	27.737	27.789	27.868	27.944	28.023	28.091	28.150	0.5%
Subcompact	31.936	32.070	32.215	32.350	32.442	32.541	32.630	32.751	32.850	32.936	33.017	33.084	0.3%
Compact	31.518	31.634	31.757	31.875	31.950	32.029	32.100	32.209	32.293	32.361	32.427	32.479	0.3%
Midsized	27.872	28.005	28.136	28.262	28.360	28.449	28.510	28.594	28.662	28.727	28.784	28.831	0.3%
Large	26.026	26.169	26.318	26.456	26.567	26.667	26.761	26.874	26.957	27.037	27.097	27.158	0.3%
Two Seater	26.281	26.432	26.581	26.697	26.789	26.871	26.952	27.042	27.124	27.207	27.287	27.356	0.4%
Average New Car	29.246	29.378	29.515	29.639	29.731	29.822	29.896	30.000	30.082	30.152	30.219	30.269	0.3%
Average New Car On-Road MPG	22.873	23.072	23.274	23.468	23.637	23.806	23.961	24.045	24.111	24.166	24.219	24.258	0.7%
Conventional Light Trucks													
Small Pickup	25.441	25.650	25.820	25.945	26.075	26.226	26.363	26.516	26.640	26.770	26.870	26.965	0.8%
Large Pickup	20.796	20.963	21.113	21.235	21.344	21.459	21.537	21.653	21.775	21.892	21.994	22.068	0.7%
Small Van	25.297	25.417	25.526	25.599	25.683	25.783	25.873	25.991	26.113	26.232	26.325	26.431	0.6%
Large Van	20.192	20.366	20.530	20.656	20.773	20.870	20.984	21.129	21.268	21.417	21.548	21.656	0.8%
Small Utility	24.452	24.564	24.689	24.806	24.925	25.052	25.162	25.299	25.417	25.553	25.663	25.777	0.8%
Large Utility	19.577	19.747	19.871	19.976	20.085	20.176	20.281	20.384	20.493	20.613	20.689	20.779	0.7%
Average New Light Truck	22.937	23.089	23.227	23.343	23.454	23.572	23.674	23.800	23.921	24.048	24.150	24.247	0.7%
Average New Light Truck On-Road MPG	18.242	18.348	18.444	18.521	18.595	18.674	18.740	18.840	18.936	19.036	19.116	19.192	0.7%
Degradation Factors 1/													
Cars	0.782	0.785	0.789	0.792	0.795	0.798	0.801	0.801	0.801	0.801	0.801	0.801	0.3%
Light Trucks	0.795	0.795	0.794	0.793	0.793	0.792	0.792	0.792	0.792	0.792	0.792	0.792	-0.1%
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	43.42	43.40	43.37	43.35	43.31	43.28	43.25	43.28	43.31	43.35	43.37	43.39	N/A
Subcompact	35.866	36.089	36.301	36.531	36.787	37.014	37.228	37.419	37.597	37.728	37.846	37.937	0.4%
Compact	37.294	37.496	37.574	37.643	37.676	37.727	37.772	37.867	37.933	37.980	38.025	38.059	0.7%
Midsized	33.012	33.174	33.270	33.352	33.462	33.524	33.565	33.636	33.691	33.739	33.796	33.833	1.0%
Large	30.136	30.352	30.517	30.680	30.841	30.996	31.124	31.263	31.363	31.437	31.495	31.546	0.6%
Two Seater	35.273	35.333	35.378	35.416	35.445	35.468	35.491	35.542	35.589	35.635	35.670	35.703	0.0%
Average New Alternative Cars	33.812	34.012	34.140	34.256	34.377	34.481	34.561	34.663	34.744	34.803	34.870	34.910	0.8%
Alternative-Fuel Light Trucks													
Small Pickup	25.766	25.985	26.166	26.303	26.447	26.599	26.739	26.893	27.015	27.141	27.240	27.341	0.8%
Large Pickup	21.099	21.259	21.406	21.526	21.634	21.749	21.828	21.943	22.065	22.186	22.287	22.365	0.7%
Small Van	29.742	30.393	30.431	30.424	30.421	30.447	30.473	30.555	30.627	30.687	30.730	30.782	1.2%
Large Van	20.158	20.412	20.603	20.751	20.885	21.008	21.100	21.238	21.378	21.526	21.655	21.762	0.6%
Small Utility	27.594	27.895	28.090	28.259	28.495	28.604	29.011	29.145	29.265	29.383	29.504	29.614	0.7%
Large Utility	21.599	21.766	21.869	22.229	22.293	22.357	22.434	22.529	22.619	22.707	22.775	22.859	1.1%
Average New Alternative Light Trucks	25.839	26.179	26.313	26.457	26.587	26.666	26.878	26.992	27.094	27.186	27.277	27.361	1.4%
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	29.255	29.390	29.529	29.660	29.758	29.852	29.928	30.030	30.111	30.184	30.248	30.303	0.3%
Light Trucks	21.565	21.726	21.862	21.967	22.072	22.173	22.268	22.386	22.504	22.628	22.725	22.816	0.7%
Average On-Road MPG													
Cars	22.593	22.848	23.076	23.289	23.486	23.675	23.851	23.926	23.997	24.063	24.127	24.182	0.6%
Light Trucks	16.896	17.000	17.109	17.206	17.298	17.381	17.455	17.537	17.622	17.709	17.796	17.882	0.6%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Vehicle Sales Shares (%)</b>													
<b>Conventional Cars</b>													
Minicompact	0.379	0.379	0.380	0.379	0.378	0.379	0.379	0.379	0.380	0.379	0.380	0.379	0.3%
Subcompact	14.432	14.444	14.466	14.446	14.429	14.454	14.448	14.467	14.482	14.462	14.491	14.456	0.3%
Compact	33.590	33.602	33.631	33.583	33.564	33.593	33.587	33.599	33.632	33.608	33.667	33.620	0.2%
Midsize	34.705	34.700	34.674	34.715	34.734	34.708	34.717	34.704	34.674	34.695	34.640	34.682	-0.1%
Large	15.196	15.178	15.152	15.179	15.199	15.170	15.175	15.156	15.140	15.163	15.130	15.172	-0.3%
Two Seater	1.698	1.697	1.697	1.698	1.696	1.695	1.694	1.694	1.693	1.693	1.692	1.692	-0.1%
<b>Conventional Light Trucks</b>													
Small Pickup	12.454	12.458	12.459	12.480	12.493	12.488	12.495	12.478	12.454	12.465	12.439	12.463	-0.2%
Large Pickup	21.633	21.626	21.630	21.642	21.641	21.649	21.648	21.659	21.659	21.647	21.635	21.631	0.0%
Small Van	17.776	17.788	17.805	17.777	17.758	17.770	17.770	17.785	17.808	17.798	17.849	17.813	0.2%
Large Van	2.494	2.494	2.496	2.499	2.498	2.499	2.497	2.498	2.497	2.496	2.496	2.497	0.0%
Small Utility	31.850	31.845	31.825	31.825	31.831	31.819	31.817	31.808	31.806	31.815	31.801	31.814	-0.1%
Large Utility	13.792	13.789	13.785	13.777	13.779	13.775	13.774	13.772	13.776	13.778	13.780	13.782	0.0%
<b>New Vehicle Average Horsepower</b>													
<b>Conventional Cars</b>													
Minicompact	282.469	283.720	284.902	286.028	286.791	287.486	288.080	288.362	288.639	288.950	289.171	289.421	0.6%
Subcompact	181.821	182.939	184.017	184.997	185.930	186.784	187.589	188.164	188.569	188.923	189.285	189.519	0.9%
Compact	175.008	176.436	177.820	179.119	180.377	181.517	182.621	183.517	184.238	184.922	185.678	186.351	1.1%
Midsize	225.169	226.880	228.499	230.014	231.412	232.697	233.799	234.532	235.121	235.800	236.442	237.035	1.0%
Large	258.130	259.647	261.103	262.454	263.741	264.991	266.330	267.286	267.888	268.555	269.041	269.467	0.7%
Two Seater	302.029	302.962	303.834	304.624	305.374	305.947	306.493	306.702	306.779	306.905	307.077	307.177	0.5%
Average New Car	208.595	210.064	211.453	212.822	214.097	215.216	216.307	217.074	217.644	218.294	218.846	219.432	0.9%
<b>Conventional Light Trucks</b>													
Small Pickup	207.429	208.236	209.000	209.773	210.548	210.922	211.230	211.151	211.091	211.036	211.015	210.989	0.9%
Large Pickup	273.835	274.357	274.898	275.427	275.942	276.447	276.880	276.767	276.651	276.537	276.486	276.440	0.7%
Small Van	225.005	226.144	227.223	228.282	229.371	230.474	231.525	232.031	232.514	232.708	232.902	233.197	0.9%
Large Van	275.519	276.412	276.876	277.383	277.842	278.302	278.732	278.588	278.389	278.185	278.047	277.919	0.8%
Small Utility	213.633	214.164	214.709	215.283	215.851	216.420	216.864	216.863	216.809	216.689	216.567	216.440	0.5%
Large Utility	297.481	298.105	298.702	299.365	299.994	300.618	301.199	301.141	301.007	300.855	300.767	300.620	0.7%
Average New Light Truck	241.014	241.701	242.375	243.059	243.736	244.370	244.918	244.972	244.992	244.923	244.892	244.861	0.7%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>New Vehicle Average Weight</b>													
<b>Conventional Cars</b>													
Minicompact	3623.504	3625.121	3627.273	3629.286	3632.050	3634.747	3637.001	3634.589	3631.915	3629.136	3627.371	3625.559	0.2%
Subcompact	2939.312	2940.844	2942.151	2943.459	2945.268	2946.844	2948.689	2946.724	2944.665	2942.879	2941.329	2939.565	0.2%
Compact	2991.498	2992.968	2994.271	2995.536	2997.333	2998.910	3000.663	2998.635	2996.423	2994.462	2992.896	2991.126	0.2%
Midsized	3498.341	3500.559	3502.531	3504.405	3506.572	3508.847	3511.225	3508.975	3506.534	3504.444	3502.707	3500.778	0.2%
Large	3909.783	3912.719	3915.326	3917.770	3920.020	3922.123	3924.986	3922.705	3920.477	3918.868	3916.885	3914.656	0.3%
Two Seater	3175.815	3177.330	3178.949	3180.081	3182.071	3184.103	3186.147	3184.071	3181.825	3179.717	3178.092	3176.339	0.2%
Average New Car	3304.931	3306.703	3308.062	3310.188	3312.469	3313.980	3316.224	3313.843	3311.254	3309.653	3307.366	3306.080	0.2%
<b>Conventional Light Trucks</b>													
Small Pickup	3806.616	3812.618	3818.379	3824.039	3829.494	3834.946	3840.548	3839.108	3838.020	3837.027	3836.640	3836.158	0.2%
Large Pickup	4985.253	4992.950	5001.066	5009.979	5018.221	5026.311	5034.172	5032.130	5030.024	5027.944	5027.009	5026.182	0.3%
Small Van	4218.799	4225.603	4232.433	4238.828	4244.995	4251.079	4256.980	4254.370	4251.312	4247.795	4245.163	4242.582	0.2%
Large Van	5017.442	5025.665	5034.106	5043.329	5051.670	5060.033	5067.861	5065.237	5061.622	5057.901	5055.409	5053.080	0.3%
Small Utility	3909.482	3915.850	3922.380	3929.095	3935.396	3941.415	3947.202	3945.033	3942.464	3939.794	3937.579	3935.271	0.1%
Large Utility	5435.200	5443.276	5451.786	5461.114	5469.836	5478.316	5486.330	5483.048	5478.982	5474.815	5472.029	5468.723	0.2%
Average New Light Truck	4422.445	4429.316	4436.521	4443.889	4450.792	4457.673	4464.208	4462.093	4459.629	4456.770	4454.962	4452.888	0.2%
<b>Average Weight for the Stock</b>													
Conventional Cars	3214	3223	3232	3241	3250	3258	3265	3271	3277	3282	3286	3290	0.2%
Conventional Light Trucks	4304	4317	4330	4342	4353	4365	4375	4385	4393	4401	4407	4413	0.3%

Table 49. 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.

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Year Fuel Economy Reports from Auto Manufacturers, 1998; Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the U.S. Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology  
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	727.10	726.55	699.78	661.94	612.04	589.80	577.68	565.64	548.86	529.94	513.78	498.94	488.30
Distillate	0.00	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	0.60	0.45	0.26	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	13.58	21.92	29.40	36.30	37.70	37.27	36.60	36.04	35.26	34.19	33.20	32.15	31.31
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	2.35	3.34	4.25	5.09	5.83	6.16	6.10	6.08	6.02	5.87	5.70	5.54	5.40
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	0.00	0.00	0.00	0.00	23.95	24.90	24.27	23.74	23.13	22.42	21.78	21.15	20.62
Electric	0.58	0.73	0.87	0.97	0.99	0.86	0.77	0.69	0.63	0.59	0.56	0.55	0.54
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	744.20	753.00	734.56	704.44	680.51	659.00	645.42	632.19	613.90	593.00	575.02	558.33	546.17
Light Trucks 1/													
Conventional Gasoline	785.68	773.00	729.43	689.21	643.88	649.62	652.26	660.74	663.03	663.42	667.52	674.56	681.86
Distillate	0.00	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
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
Ethanol													
Flex	13.84	27.22	39.93	53.47	67.34	71.77	72.34	73.45	74.11	74.25	74.59	75.24	75.99
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	12.64	16.36	19.79	23.48	27.24	27.52	27.73	28.20	28.41	28.54	28.78	29.12	29.49
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	28.55	43.69	57.67	72.73	88.14	91.16	91.68	93.04	93.57	93.77	94.35	95.33	96.38
Electric	0.77	1.20	1.59	1.97	2.30	2.35	2.20	2.08	1.97	1.91	1.88	1.89	1.93
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	841.48	861.47	848.42	840.85	828.91	842.42	846.22	857.50	861.09	861.89	867.12	876.15	885.64
Total Fleet Vehicles	1585.68	1614.47	1582.98	1545.29	1509.42	1501.42	1491.64	1489.69	1474.99	1454.89	1442.13	1434.48	1431.81
Commercial Light Trucks 2/	583.83	586.53	584.43	604.97	624.68	637.69	648.05	658.60	670.36	683.59	696.76	709.81	724.53

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology  
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	481.35	474.22	469.27	466.01	464.69	464.48	464.16	463.56	461.80	459.85	458.20	458.17	-2.0%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	-28.9%
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	N/A
Ethanol													
Flex	30.76	30.29	29.93	29.67	29.51	29.42	29.34	29.28	29.15	29.02	28.90	28.85	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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	5.29	5.21	5.15	5.11	5.08	5.07	5.06	5.06	5.06	5.05	5.04	5.03	1.8%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	20.20	19.87	19.62	19.43	19.32	19.25	19.20	19.18	19.14	19.08	19.03	19.00	N/A
Electric	0.53	0.53	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.53	-1.4%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Cars	538.14	530.12	524.50	520.74	519.13	518.74	518.29	517.61	515.67	513.52	511.69	511.58	-1.7%
Light Trucks 1/													
Conventional Gasoline	688.84	695.31	702.24	711.36	721.78	733.76	747.02	757.67	766.69	774.86	783.55	793.52	0.1%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
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	N/A
Ethanol													
Flex	76.67	77.30	77.99	78.91	80.00	81.24	82.63	83.79	84.80	85.72	86.68	87.77	5.2%
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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	29.84	30.19	30.55	31.00	31.50	32.08	32.71	33.23	33.68	34.09	34.51	34.99	3.4%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	97.37	98.30	99.28	100.58	102.06	103.76	105.65	107.22	108.56	109.77	111.02	112.42	4.2%
Electric	1.97	2.00	2.04	2.08	2.13	2.18	2.23	2.28	2.32	2.36	2.40	2.44	3.1%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Light Trucks	894.68	903.10	912.11	923.93	937.47	953.00	970.25	984.18	996.05	1006.80	1018.16	1031.14	0.8%
Total Fleet Vehicles	1432.82	1433.22	1436.60	1444.68	1456.60	1471.74	1488.54	1501.79	1511.72	1520.32	1529.84	1542.72	-0.2%
Commercial Light Trucks 2/	737.61	750.27	763.38	777.54	792.08	803.39	817.06	829.40	844.59	860.60	876.92	895.63	1.9%

Table 50. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not Applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); 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); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 51. Transportation Fleet Car and Truck Sales by Type and Technology  
(Thousands)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	1475.03	1366.54	1310.48	1282.30	1274.93	1257.97	1229.95	1194.55	1158.22	1124.56	1126.23	1119.22	1119.94
Distillate	0.00	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
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
Ethanol													
Flex	82.76	76.67	73.52	71.94	71.53	70.58	69.01	67.02	64.98	63.09	63.19	62.79	62.83
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	12.00	11.12	10.66	10.43	10.37	10.23	10.01	9.72	9.42	9.15	9.16	9.10	9.11
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	46.28	42.87	41.12	40.23	40.00	39.47	38.59	37.48	36.34	35.28	35.33	35.11	35.14
Electric	2.45	2.27	2.18	2.13	2.12	2.09	2.05	1.99	1.93	1.87	1.87	1.86	1.86
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	1618.51	1499.47	1437.96	1407.04	1398.95	1380.34	1349.59	1310.75	1270.89	1233.95	1235.79	1228.10	1228.88
Light Trucks 1/													
Conventional Gasoline	794.11	806.30	778.99	831.33	854.71	875.47	887.99	897.51	906.46	921.03	938.05	952.10	972.99
Distillate	0.00	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
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
Ethanol													
Flex	83.52	84.80	81.93	87.43	89.89	92.08	93.39	94.39	95.34	96.87	98.66	100.14	102.33
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	30.71	31.18	30.13	32.15	33.05	33.86	34.34	34.71	35.06	35.62	36.28	36.82	37.63
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	102.28	103.85	100.33	107.07	110.09	112.76	114.37	115.60	116.75	118.63	120.82	122.63	125.32
Electric	3.32	3.37	3.26	3.47	3.57	3.66	3.71	3.75	3.79	3.85	3.92	3.98	4.07
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	1013.94	1029.51	994.63	1061.46	1091.32	1117.82	1133.81	1145.97	1157.39	1175.99	1197.73	1215.67	1242.33
Total Fleet Vehicles	2632.45	2528.98	2432.59	2468.50	2490.26	2498.16	2483.41	2456.72	2428.27	2409.94	2433.51	2443.77	2471.21
Commercial Light Trucks 2/	524.67	610.86	585.31	645.01	662.81	696.69	710.92	719.35	725.38	729.03	738.36	740.96	750.65

Table 51. Transportation Fleet Car and Truck Sales by Type and Technology  
(Thousands)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	1115.44	1112.10	1118.63	1130.58	1141.49	1147.48	1151.11	1141.59	1140.29	1143.16	1148.20	1153.68	-0.7%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	-0.7%
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	N/A
Ethanol													
Flex	62.58	62.39	62.76	63.43	64.04	64.38	64.58	64.05	63.98	64.14	64.42	64.73	-0.7%
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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	9.07	9.05	9.10	9.20	9.29	9.33	9.36	9.29	9.28	9.30	9.34	9.38	-0.7%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	35.00	34.89	35.10	35.47	35.81	36.00	36.11	35.82	35.78	35.87	36.02	36.20	-0.7%
Electric	1.86	1.85	1.86	1.88	1.90	1.91	1.91	1.90	1.90	1.90	1.91	1.92	-0.7%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Cars	1223.94	1220.28	1227.44	1240.56	1252.53	1259.10	1263.09	1252.64	1251.22	1254.36	1259.90	1265.91	-0.7%
Light Trucks 1/													
Conventional Gasoline	985.25	998.45	1020.07	1047.00	1074.97	1097.45	1118.98	1126.66	1142.97	1165.57	1191.79	1221.69	1.8%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	1.8%
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	N/A
Ethanol													
Flex	103.62	105.01	107.28	110.12	113.06	115.42	117.69	118.49	120.21	122.59	125.35	128.49	1.8%
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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	38.10	38.61	39.45	40.49	41.57	42.44	43.28	43.57	44.20	45.08	46.09	47.25	1.8%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	126.90	128.60	131.39	134.85	138.46	141.35	144.12	145.11	147.21	150.13	153.50	157.35	1.8%
Electric	4.12	4.17	4.26	4.38	4.49	4.59	4.68	4.71	4.78	4.87	4.98	5.11	1.8%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Light Trucks	1258.00	1274.85	1302.46	1336.84	1372.55	1401.25	1428.75	1438.55	1459.38	1488.24	1521.71	1559.88	1.8%
Total Fleet Vehicles	2481.94	2495.13	2529.90	2577.40	2625.09	2660.35	2691.84	2691.19	2710.60	2742.59	2781.61	2825.80	0.5%
Commercial Light Trucks 2/	753.95	758.64	769.60	784.50	799.57	810.72	820.87	821.10	827.54	837.82	850.33	864.47	1.5%

Table 51. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not Applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); 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); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology  
(Thousands)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	6200.84	6094.59	5885.35	5584.94	5177.93	5025.99	4945.03	4857.13	4742.73	4612.56	4512.15	4439.33	4402.07
Distillate	0.00	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	4.96	3.72	2.42	1.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	115.55	183.62	246.61	304.97	316.88	315.82	309.73	304.01	297.30	289.60	283.31	278.40	275.45
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	21.16	29.86	37.99	45.59	51.21	53.53	52.22	51.18	50.11	48.92	47.88	46.99	46.37
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	54.77	95.03	133.00	168.97	191.89	200.45	195.74	191.88	187.84	183.30	179.39	176.10	173.85
Electric	5.74	7.34	8.83	10.18	10.76	10.16	9.94	9.76	9.55	9.31	9.11	8.95	8.84
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	6403.02	6414.16	6314.19	6115.75	5748.75	5605.96	5512.67	5413.97	5287.53	5143.69	5031.84	4949.76	4906.58
Light Trucks 1/													
Conventional Gasoline	5071.29	4889.24	4593.58	4320.03	4030.31	4110.47	4193.03	4303.31	4380.59	4446.82	4509.82	4573.71	4648.46
Distillate	0.00	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	0.13	0.10	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	89.82	173.10	253.02	337.38	422.46	452.70	461.62	472.98	482.24	489.76	496.85	503.87	511.99
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	75.63	96.92	116.61	137.83	159.59	162.52	165.73	170.12	173.22	175.87	178.36	180.88	183.82
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	173.19	260.60	342.89	430.95	520.80	543.60	554.31	568.83	579.34	588.21	596.58	605.00	614.82
Electric	5.28	8.23	11.04	14.02	17.04	18.42	18.78	19.23	19.62	19.93	20.22	20.51	20.84
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	5415.34	5428.19	5317.20	5240.24	5150.20	5287.71	5393.47	5534.47	5635.02	5720.59	5801.84	5883.97	5979.94
Total Fleet Vehicles	11818.36	11842.35	11631.39	11355.99	10898.94	10893.67	10906.14	10948.44	10922.54	10864.28	10833.68	10833.73	10886.51
Commercial Light Trucks 2/	5678.86	5763.41	5918.31	6189.52	6507.67	6868.47	7238.13	7601.38	7948.22	8270.50	8570.32	8839.46	9086.22

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology  
(Thousands)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	4391.25	4377.60	4376.82	4387.89	4413.67	4447.76	4479.04	4489.45	4488.29	4484.35	4482.49	4494.13	-1.3%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	-28.4%
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	N/A
Ethanol													
Flex	274.06	273.17	273.00	273.60	274.97	276.81	278.69	279.54	279.73	279.67	279.65	280.14	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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	45.99	45.78	45.74	45.81	46.00	46.25	46.53	46.70	46.79	46.83	46.85	46.90	2.0%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	172.52	171.78	171.64	171.93	172.66	173.64	174.73	175.36	175.66	175.75	175.81	176.03	2.7%
Electric	8.78	8.75	8.74	8.76	8.80	8.85	8.91	8.94	8.95	8.96	8.96	8.97	0.9%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Cars	4892.60	4877.08	4875.95	4887.98	4916.09	4953.31	4987.91	5000.00	4999.43	4995.56	4993.75	5006.17	-1.1%
Light Trucks 1/													
Conventional Gasoline	4725.95	4802.46	4883.92	4977.69	5079.71	5190.60	5309.04	5413.98	5509.04	5599.50	5693.61	5796.66	0.7%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	-13.1%
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	N/A
Ethanol													
Flex	520.41	528.85	537.84	548.09	559.30	571.32	584.18	595.81	606.48	616.66	627.10	638.42	5.8%
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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	186.88	189.91	193.13	196.83	200.84	205.21	209.88	214.06	217.85	221.44	225.16	229.21	3.8%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	625.04	635.17	645.95	658.32	671.75	686.31	701.92	715.88	728.58	740.64	753.10	766.64	4.8%
Electric	21.18	21.52	21.89	22.30	22.76	23.24	23.76	24.24	24.68	25.09	25.52	25.98	5.1%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Light Trucks	6079.46	6177.91	6282.73	6403.24	6534.37	6676.68	6828.80	6963.96	7086.63	7203.34	7324.50	7456.91	1.4%
Total Fleet Vehicles	10972.06	11054.99	11158.68	11291.22	11450.47	11629.99	11816.70	11963.96	12086.06	12198.90	12318.25	12463.09	0.2%
Commercial Light Trucks 2/	9306.59	9504.02	9687.02	9861.93	10030.59	10190.66	10341.92	10476.30	10602.46	10726.03	10850.98	10980.17	2.8%

Table 52. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); 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); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology  
(Billion Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	125.22	123.60	119.76	114.00	105.91	102.56	100.83	98.94	96.44	93.65	91.50	89.95	89.14
Distillate	0.00	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	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	2.33	3.72	5.02	6.22	6.48	6.44	6.32	6.19	6.05	5.88	5.75	5.64	5.58
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	0.43	0.61	0.77	0.93	1.05	1.09	1.06	1.04	1.02	0.99	0.97	0.95	0.94
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	1.11	1.93	2.71	3.45	3.92	4.09	3.99	3.91	3.82	3.72	3.64	3.57	3.52
Electric	0.12	0.15	0.18	0.21	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.18
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	129.30	130.08	128.48	124.83	117.59	114.40	112.40	110.28	107.52	104.43	102.04	100.29	99.35
Light Trucks 1/													
Conventional Gasoline	102.41	99.15	93.47	88.18	82.44	83.88	85.49	87.66	89.08	90.28	91.45	92.67	94.13
Distillate	0.00	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
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
Ethanol													
Flex	1.81	3.51	5.15	6.89	8.64	9.24	9.41	9.63	9.81	9.94	10.08	10.21	10.37
Neat	1.81	3.51	5.15	6.89	8.64	9.24	9.41	9.63	9.81	9.94	10.08	10.21	10.37
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	1.53	1.97	2.37	2.81	3.26	3.32	3.38	3.47	3.52	3.57	3.62	3.66	3.72
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	3.50	5.29	6.98	8.80	10.65	11.09	11.30	11.59	11.78	11.94	12.10	12.26	12.45
Electric	0.11	0.17	0.22	0.29	0.35	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.42
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	111.17	113.59	113.34	113.85	113.99	117.14	119.38	122.37	124.39	126.09	127.73	129.43	131.46
Total Fleet Vehicles	240.47	243.67	241.83	238.68	231.57	231.54	231.78	232.65	231.91	230.52	229.77	229.71	230.81
Commercial Light Trucks 2/	64.07	64.74	64.79	67.23	69.56	71.48	73.32	75.11	77.00	79.04	81.08	83.15	85.45

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology  
(Billion Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Cars 1/													
Conventional Gasoline	88.88	88.55	88.49	88.68	89.16	89.82	90.42	90.58	90.49	90.35	90.26	90.46	-1.3%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	-28.5%
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	N/A
Ethanol													
Flex	5.55	5.53	5.52	5.53	5.55	5.59	5.63	5.64	5.64	5.63	5.63	5.64	1.8%
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	N/A
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	0.93	0.93	0.92	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.94	1.9%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	3.49	3.47	3.47	3.47	3.49	3.51	3.53	3.54	3.54	3.54	3.54	3.54	2.7%
Electric	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.8%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Cars	99.03	98.66	98.58	98.78	99.31	100.03	100.69	100.88	100.80	100.65	100.56	100.77	-1.1%
Light Trucks 1/													
Conventional Gasoline	95.66	97.15	98.75	100.60	102.62	104.83	107.18	109.23	111.07	112.82	114.65	116.68	0.7%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	-13.2%
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	N/A
Ethanol													
Flex	10.53	10.70	10.87	11.08	11.30	11.54	11.79	12.02	12.23	12.42	12.63	12.85	5.8%
Neat	10.53	10.70	10.87	11.08	11.30	11.54	11.79	12.02	12.23	12.42	12.63	12.85	5.8%
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-fuel	3.78	3.84	3.90	3.98	4.06	4.14	4.24	4.32	4.39	4.46	4.53	4.61	3.8%
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG Bi-fuel	12.65	12.85	13.06	13.30	13.57	13.86	14.17	14.44	14.69	14.92	15.17	15.43	4.8%
Electric	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.51	0.52	5.1%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Fleet Light Truck	133.59	135.67	137.90	140.48	143.30	146.38	149.65	152.52	155.10	157.56	160.12	162.95	1.6%
Total Fleet Vehicles	232.62	234.33	236.49	239.26	242.61	246.41	250.34	253.40	255.90	258.21	260.68	263.71	0.3%
Commercial Light Trucks 2/	87.61	89.73	91.92	94.27	96.69	98.72	101.04	103.20	105.71	108.33	110.99	113.96	2.5%



Table 53. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 54. Air Travel Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Fuel Cost (1987 dollars per million Btu)	4.4	4.2	4.7	4.4	4.2	4.1	4.0	4.0	4.0	4.0	4.1	4.1	4.1
Yield-domestic (ticket price) 1/	12.9	11.5	10.8	10.5	10.1	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8
Yield-international (1996 dollars) 1/	9.8	9.5	9.3	8.9	8.6	8.3	7.9	7.6	7.2	6.9	6.6	6.2	5.9
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	491.3	479.8	482.0	494.1	507.7	522.0	536.2	555.6	574.1	597.5	619.0	644.9	669.7
Load Factor, Domestic 2/	0.69	0.70	0.71	0.71	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73
Revenue Passenger Miles, International	185.0	171.4	171.3	180.2	189.4	198.5	206.9	215.2	223.6	232.4	241.2	250.6	260.6
Load Factor, International 2/	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78
Revenue Ton Miles, Freight (billion)	26.0	26.0	25.1	26.4	29.0	31.5	33.4	35.3	37.0	38.6	40.2	41.8	43.5
Seat Miles Demanded (billion)													
Narrow Body Aircraft	581.1	560.7	555.9	567.4	580.9	596.1	610.2	629.3	647.3	672.2	693.1	719.4	745.3
Wide Body Aircraft	303.7	277.9	276.8	284.9	293.2	301.5	307.9	315.8	323.5	331.8	339.0	348.3	357.5
Regional Jets	68.4	70.8	73.0	78.1	83.6	89.4	95.6	102.6	110.0	118.3	126.7	136.3	145.0
Aircraft Sales													
Narrow Body Aircraft	304.0	157.0	168.8	182.8	200.2	215.0	227.5	246.8	261.5	283.9	302.7	329.1	357.6
Wide Body Aircraft	60.0	38.0	52.7	57.1	62.5	67.1	71.0	77.0	81.6	88.6	94.5	102.7	111.6
Regional Jets	278.0	279.0	94.9	102.8	112.6	120.9	127.9	138.8	147.0	159.6	170.2	185.1	201.1
Total Aircraft Sales	642.0	474.0	316.4	342.7	375.2	402.9	426.4	462.6	490.2	532.1	567.3	616.9	670.3
Aircraft Stock													
Narrow Body Aircraft	5051.0	5002.0	5027.6	5067.5	5127.3	5204.3	5296.6	5410.5	5540.7	5694.2	5865.4	6061.2	6287.1
Wide Body Aircraft	1392.0	1373.0	1386.7	1401.8	1419.5	1439.3	1460.5	1485.5	1514.8	1551.5	1595.2	1647.4	1709.3
Regional Jets	1040.0	1290.0	1379.1	1475.4	1580.6	1693.2	1811.9	1940.3	2075.8	2222.5	2378.9	2548.8	2732.7
Total Aircraft Stock	7483.0	7665.0	7793.3	7944.7	8127.4	8336.8	8569.1	8836.4	9131.4	9468.3	9839.5	10257.4	10729.1
Aircraft Active Stock													
Narrow Body Aircraft	4198.0	3817.1	3346.4	3412.1	3490.3	3635.4	3716.7	3830.2	3936.2	4079.1	4202.6	4359.8	4514.4
Wide Body Aircraft	1139.0	767.4	723.9	746.0	781.4	809.6	840.8	884.4	932.7	987.3	1048.6	1116.8	1195.3
Regional Jets	971.0	1266.8	1351.2	1441.8	1540.4	1645.3	1755.4	1873.4	1998.1	2132.2	2273.5	2424.9	2587.8
Total Active Stock	6308.0	5851.3	5421.5	5599.9	5812.1	6090.3	6313.0	6588.0	6867.0	7198.6	7524.6	7901.5	8297.5
Aircraft Parked Stock													
Narrow Body Aircraft	853.0	635.9	509.7	491.7	487.9	451.8	489.5	514.5	542.0	533.1	529.9	511.5	526.1
Wide Body Aircraft	253.0	181.6	132.6	123.9	107.2	108.8	110.8	112.1	113.5	112.9	114.0	110.2	109.3
Regional Jets	69.0	23.2	28.0	33.6	40.2	48.0	56.5	67.0	77.7	90.3	105.5	123.9	144.9
Total Parked Stock	1175.0	840.7	670.3	649.3	635.3	608.6	656.9	693.6	733.2	736.3	749.5	745.6	780.3
Aircraft Cargo Stock													
Narrow Body Aircraft	594.0	549.0	1171.4	1163.6	1149.1	1117.1	1090.4	1065.7	1062.6	1082.1	1132.9	1189.9	1246.6
Wide Body Aircraft	395.0	424.0	530.2	531.8	530.9	520.9	508.9	489.0	468.6	451.3	432.5	420.4	404.7
Total Cargo Stock	989.0	973.0	1701.6	1695.5	1680.0	1638.0	1599.2	1554.8	1531.2	1533.4	1565.4	1610.3	1651.3

Table 54. Air Travel Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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/													
Narrow Body Aircraft	63.9	64.6	64.8	64.9	65.1	65.5	66.1	67.2	68.7	70.3	71.9	73.0	73.7
Wide Body Aircraft	62.3	63.0	63.2	63.3	63.5	63.9	64.6	65.6	67.0	68.7	70.2	71.3	72.0
Regional Jets	42.1	42.7	42.8	42.9	43.0	43.2	43.7	44.3	45.3	46.4	47.4	48.2	48.6
Average Aircraft	61.9	58.0	57.3	57.2	57.1	57.3	57.7	58.4	59.5	60.9	62.0	62.8	63.3
Aircraft Stock Efficiency 3/													
Narrow Body Aircraft	57.3	56.5	59.1	59.6	60.1	60.5	61.0	61.6	62.2	63.0	63.8	64.7	65.7
Wide Body Aircraft	56.4	56.1	57.8	58.5	59.2	59.8	60.5	61.2	61.9	62.7	63.5	64.4	65.3
Regional Jets	40.4	41.1	41.3	41.4	41.5	41.7	41.8	42.0	42.3	42.6	42.9	43.3	43.7
Average Aircraft	55.3	54.8	56.7	57.1	57.6	57.9	58.3	58.8	59.3	59.9	60.5	61.2	62.0
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	2924.3	2801.1	2677.7	2744.0	2847.2	2951.4	3033.8	3128.9	3212.7	3308.1	3386.3	3480.0	3565.2
Aviation Gasoline	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1
Military													
Jet Fuel	501.7	538.9	583.5	603.9	611.1	612.5	616.8	621.1	625.2	629.3	633.3	637.1	640.7

Table 54. Air Travel Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Fuel Cost (1987 dollars per million Btu)	4.1	4.1	4.1	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	0.2%
Yield-domestic (ticket price) 1/	7.5	7.2	6.9	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	-2.3%
Yield-international (1996 dollars) 1/	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	-2.3%
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	697.0	716.3	733.1	750.4	765.8	779.6	791.0	802.2	811.3	819.2	826.6	831.6	2.4%
Load Factor, Domestic 2/	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.75	0.3%
Revenue Passenger Miles, International	270.3	277.7	284.9	291.5	297.5	303.2	308.5	313.5	317.7	321.5	324.7	327.3	2.9%
Load Factor, International 2/	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.2%
Revenue Ton Miles, Freight (billion)	45.1	46.6	48.1	50.0	52.2	54.2	56.0	57.7	59.5	61.5	63.5	65.6	4.1%
Seat Miles Demanded (billion)													
Narrow Body Aircraft	772.8	791.3	807.9	824.3	838.3	851.6	862.0	871.5	879.3	884.9	891.3	889.0	2.0%
Wide Body Aircraft	366.1	371.7	375.3	379.1	381.9	384.2	384.9	385.9	386.0	385.4	384.1	386.2	1.4%
Regional Jets	155.5	164.4	173.2	182.2	190.9	199.6	207.8	215.9	223.5	231.1	238.1	245.3	5.6%
Aircraft Sales													
Narrow Body Aircraft	387.8	400.5	408.8	418.2	423.7	423.5	420.1	413.2	404.5	393.3	381.0	366.7	3.8%
Wide Body Aircraft	121.0	125.0	127.6	130.5	132.2	132.2	131.1	129.0	126.2	122.8	118.9	114.5	4.9%
Regional Jets	218.1	225.2	229.9	235.1	238.3	238.1	236.3	232.4	227.4	221.2	214.2	206.2	-1.3%
Total Aircraft Sales	726.9	750.7	766.2	783.8	794.2	793.8	787.5	774.6	758.1	737.2	714.2	687.4	1.6%
Aircraft Stock													
Narrow Body Aircraft	6546.7	6819.5	7096.1	7376.7	7657.0	7932.6	8200.7	8458.2	8703.5	8934.2	9150.5	9351.3	2.8%
Wide Body Aircraft	1781.7	1857.4	1934.9	2014.3	2095.3	2177.2	2258.7	2337.8	2414.7	2487.5	2555.4	2617.4	2.8%
Regional Jets	2931.3	3134.7	3339.9	3547.5	3754.9	3958.7	4156.7	4346.5	4527.0	4696.4	4853.7	4997.6	6.1%
Total Aircraft Stock	11259.7	11811.6	12370.9	12938.4	13507.3	14068.4	14616.0	15142.5	15645.1	16118.0	16559.6	16966.3	3.5%
Aircraft Active Stock													
Narrow Body Aircraft	4677.7	4915.6	5096.0	5328.0	5596.3	5859.2	6113.9	6351.2	6550.1	6706.6	6842.5	6953.2	2.6%
Wide Body Aircraft	1283.5	1373.6	1463.5	1554.8	1647.5	1736.8	1821.6	1900.0	1972.0	2034.9	2090.6	2139.9	4.6%
Regional Jets	2765.5	2943.2	3120.7	3295.5	3470.5	3639.1	3802.4	3955.6	4097.4	4223.6	4328.2	4420.8	5.6%
Total Active Stock	8726.6	9232.4	9680.3	10178.3	10714.3	11235.1	11737.9	12206.8	12619.4	12965.1	13261.3	13514.0	3.7%
Aircraft Parked Stock													
Narrow Body Aircraft	557.9	533.5	578.9	623.0	662.6	717.2	787.9	867.0	922.4	938.9	942.3	931.6	1.7%
Wide Body Aircraft	111.2	110.6	106.6	105.9	117.0	133.7	152.4	168.5	181.6	185.6	187.9	196.8	0.3%
Regional Jets	165.9	191.5	219.2	252.0	284.4	319.6	354.2	390.9	429.6	472.7	525.4	576.7	15.0%
Total Parked Stock	834.9	835.6	904.7	980.9	1064.0	1170.5	1294.5	1426.4	1533.5	1597.3	1655.6	1705.1	3.1%
Aircraft Cargo Stock													
Narrow Body Aircraft	1311.1	1370.4	1421.2	1425.6	1398.2	1356.2	1298.9	1240.0	1231.1	1288.7	1365.7	1466.4	4.4%
Wide Body Aircraft	387.0	373.2	364.7	353.6	330.9	306.7	284.6	269.3	261.1	267.0	276.9	280.8	-1.8%
Total Cargo Stock	1698.1	1743.6	1785.9	1779.2	1729.1	1662.9	1583.5	1509.3	1492.1	1555.7	1642.6	1747.2	2.6%

Table 54. Air Travel Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Advanced Technology Penetration</b>													
Ultra-high Bypass	0.00	0.00	0.00	0.01	0.01	0.02	0.05	0.10	0.18	0.32	0.49	0.68	27.6%
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	N/A
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
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	N/A
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	25.9%
<b>New Aircraft Efficiency 3/</b>													
Narrow Body Aircraft	74.1	74.3	74.4	74.4	74.5	74.6	74.8	75.1	75.7	76.6	77.7	78.9	0.9%
Wide Body Aircraft	72.4	72.6	72.7	72.8	72.9	73.0	73.2	73.6	74.1	75.0	76.2	77.3	0.9%
Regional Jets	48.9	49.0	49.1	49.1	49.2	49.2	49.3	49.5	49.9	50.5	51.2	52.0	0.9%
Average Aircraft	63.5	63.6	63.6	63.6	63.7	63.8	63.9	64.2	64.6	65.4	66.3	67.3	0.7%
<b>Aircraft Stock Efficiency 3/</b>													
Narrow Body Aircraft	66.7	67.6	68.4	69.1	69.6	70.2	70.6	71.1	71.6	72.1	72.7	73.2	1.1%
Wide Body Aircraft	66.1	66.8	67.5	68.2	68.7	69.2	69.7	70.2	70.6	71.1	71.6	72.1	1.1%
Regional Jets	44.1	44.5	44.8	45.1	45.4	45.7	46.0	46.2	46.5	46.7	47.0	47.3	0.6%
Average Aircraft	62.7	63.3	63.9	64.3	64.7	65.1	65.4	65.7	66.0	66.3	66.7	67.0	0.9%
<b>Fuel Consumption (trillion Btu)</b>													
<b>Commercial</b>													
Jet Fuel	3655.8	3719.3	3777.5	3849.4	3921.2	3989.5	4044.3	4097.8	4146.8	4190.7	4231.2	4262.9	1.8%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
<b>Military</b>													
Jet Fuel	643.8	647.2	650.4	653.3	655.9	658.3	660.5	662.5	664.4	666.1	667.7	669.2	0.9%

Table 54. Air Travel Energy Use

1/ Fraction of seats filled.

2/ 1992 cents per passenger mile.

3/ Seat miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2002 derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 2002/2001 (Washington, DC, 2002); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data Report 2000, DOE/EIA-0214(2000) (Washington, DC, August 2003); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 55. Freight Transportation Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	31.64	30.97	31.52	33.15	34.69	35.88	37.00	38.05	39.18	40.50	41.88	43.27	44.75
Gasoline	13.61	13.49	13.06	13.04	12.88	12.52	12.12	11.70	11.35	11.10	10.92	10.78	10.71
Liquefied Petroleum Gas	0.38	0.36	0.33	0.32	0.31	0.30	0.30	0.31	0.32	0.34	0.36	0.38	0.39
Compressed Natural Gas	0.05	0.06	0.08	0.11	0.16	0.23	0.31	0.40	0.50	0.61	0.72	0.83	0.94
Medium Subtotal	45.68	44.88	44.99	46.63	48.04	48.93	49.74	50.46	51.35	52.55	53.87	55.26	56.79
Heavy													
Diesel	153.80	149.65	150.76	156.98	163.40	168.78	173.60	177.97	182.59	187.83	193.01	198.18	203.74
Gasoline	1.52	1.45	1.36	1.32	1.27	1.21	1.15	1.10	1.06	1.04	1.03	1.03	1.03
Liquefied Petroleum Gas	0.03	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.18	0.19
Compressed Natural Gas	0.03	0.05	0.07	0.10	0.15	0.22	0.30	0.38	0.47	0.55	0.63	0.69	0.75
Heavy Subtotal	155.38	151.19	152.24	158.46	164.90	170.29	175.16	179.58	184.27	189.58	194.85	200.08	205.71
Total Vehicle Miles Traveled	201.06	196.07	197.23	205.08	212.94	219.23	224.90	230.04	235.63	242.13	248.72	255.34	262.50
Consumption (trillion Btu)													
Medium													
Diesel	481.76	468.63	474.89	497.80	519.45	536.31	552.42	567.69	584.47	604.17	624.76	645.61	667.69
Gasoline	201.80	199.40	192.46	191.75	189.04	183.37	177.15	170.74	165.26	161.27	158.28	156.04	154.56
Liquefied Petroleum Gas	7.77	7.19	6.58	6.24	5.94	5.68	5.63	5.68	5.82	6.02	6.25	6.48	6.70
Compressed Natural Gas	0.75	0.99	1.30	1.82	2.58	3.60	4.88	6.33	7.92	9.63	11.38	13.12	14.83
Medium Subtotal	692.08	676.21	675.24	697.61	717.01	728.97	740.09	750.45	763.48	781.09	800.68	821.25	843.77
Heavy													
Diesel	3503.11	3390.60	3403.71	3535.87	3674.27	3791.74	3898.77	3996.50	4100.19	4215.77	4326.11	4430.13	4535.60
Gasoline	27.36	25.98	24.22	23.39	22.48	21.37	20.33	19.41	18.73	18.31	18.06	17.93	17.92
Liquefied Petroleum Gas	0.46	0.62	0.79	1.00	1.28	1.61	1.96	2.29	2.59	2.84	3.02	3.16	3.26
Compressed Natural Gas	0.61	0.90	1.25	1.80	2.63	3.77	5.11	6.56	8.04	9.47	10.77	11.92	12.94
Heavy Subtotal	3531.54	3418.11	3429.97	3562.07	3700.66	3818.49	3926.17	4024.78	4129.55	4246.39	4357.96	4463.13	4569.72
Medium and Heavy Total													
Diesel	3984.87	3859.24	3878.60	4033.67	4193.72	4328.05	4451.19	4564.19	4684.67	4819.94	4950.87	5075.74	5203.29
Gasoline	229.16	225.38	216.68	215.14	211.52	204.74	197.49	190.16	183.99	179.58	176.34	173.97	172.48
Liquefied Petroleum Gas	8.24	7.82	7.37	7.25	7.22	7.29	7.59	7.98	8.41	8.86	9.27	9.64	9.96
Compressed Natural Gas	1.35	1.89	2.55	3.63	5.21	7.37	9.99	12.90	15.97	19.10	22.15	25.04	27.76
Total	4223.62	4094.32	4105.21	4259.69	4417.67	4547.46	4666.26	4775.22	4893.03	5027.49	5158.64	5284.39	5413.49
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.27	8.32	8.35	8.37	8.39	8.40	8.41	8.42	8.42	8.43	8.43	8.44	8.44
Gasoline	8.43	8.45	8.47	8.49	8.51	8.53	8.55	8.57	8.59	8.61	8.63	8.66	8.68
Liquefied Petroleum Gas	6.21	6.27	6.34	6.42	6.50	6.60	6.71	6.82	6.92	7.02	7.10	7.18	7.25
Compressed Natural Gas	7.60	7.72	7.80	7.85	7.88	7.89	7.89	7.90	7.91	7.91	7.92	7.93	7.93
Medium Average	8.30	8.34	8.37	8.39	8.40	8.42	8.43	8.44	8.45	8.45	8.46	8.46	8.47
Heavy													
Diesel	5.49	5.52	5.54	5.55	5.56	5.57	5.57	5.57	5.57	5.57	5.58	5.59	5.62
Gasoline	6.95	6.99	7.02	7.04	7.06	7.07	7.08	7.09	7.11	7.13	7.15	7.17	7.20
Liquefied Petroleum Gas	6.84	6.97	7.06	7.11	7.15	7.19	7.21	7.22	7.23	7.24	7.25	7.25	7.25
Compressed Natural Gas	7.08	7.14	7.17	7.20	7.23	7.24	7.25	7.26	7.26	7.26	7.27	7.27	7.27
Heavy Average	5.50	5.53	5.55	5.56	5.57	5.58	5.58	5.58	5.58	5.58	5.59	5.61	5.63
Average	5.95	5.99	6.01	6.02	6.03	6.03	6.03	6.03	6.02	6.02	6.03	6.04	6.06

Table 55. Freight Transportation Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Stock (millions)													
Medium													
Diesel	2.03	2.10	2.17	2.24	2.32	2.40	2.49	2.57	2.65	2.73	2.80	2.87	2.94
Gasoline	2.03	1.97	1.91	1.85	1.80	1.75	1.70	1.65	1.61	1.56	1.51	1.47	1.43
Liquefied Petroleum Gas	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06
Medium Subtotal	4.11	4.12	4.13	4.14	4.17	4.21	4.25	4.29	4.33	4.36	4.40	4.43	4.46
Heavy													
Diesel	4.16	4.24	4.30	4.36	4.45	4.56	4.68	4.79	4.89	4.99	5.08	5.16	5.24
Gasoline	0.37	0.34	0.32	0.30	0.28	0.26	0.25	0.23	0.22	0.21	0.20	0.19	0.18
Liquefied Petroleum 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
Compressed Natural Gas	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
Heavy Subtotal	4.53	4.59	4.63	4.67	4.74	4.84	4.94	5.04	5.14	5.23	5.31	5.38	5.46
Total Stock	8.65	8.72	8.75	8.81	8.90	9.04	9.19	9.33	9.47	9.59	9.70	9.81	9.92
New Trucks by Size Class													
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.79	8.67	8.59	8.52	8.50	8.48	8.48	8.48	8.47	8.47	8.46	8.46	8.46
Gasoline	9.02	8.99	8.97	8.94	8.92	8.92	8.92	8.94	8.96	8.99	9.01	9.03	9.05
Liquefied Petroleum Gas	8.03	8.01	7.99	7.98	7.96	7.95	7.94	7.95	7.97	7.98	7.99	8.00	8.00
Compressed Natural Gas	8.01	7.99	7.97	7.95	7.93	7.91	7.90	7.92	7.93	7.94	7.96	7.96	7.96
Medium Average	8.82	8.72	8.64	8.58	8.55	8.53	8.53	8.52	8.52	8.51	8.51	8.51	8.51
Heavy													
Diesel	5.77	5.76	5.68	5.63	5.61	5.59	5.58	5.58	5.59	5.61	5.66	5.73	5.81
Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Liquefied Petroleum Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.78	5.76	5.69	5.64	5.62	5.60	5.60	5.60	5.60	5.63	5.68	5.74	5.83
Average	6.18	6.15	6.10	6.04	6.01	5.98	5.97	5.97	5.97	6.00	6.05	6.11	6.19
Sales (millions)													
Medium													
Diesel	0.14	0.13	0.13	0.13	0.15	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18
Gasoline	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
Liquefied Petroleum Gas	0.00	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	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.19	0.17	0.17	0.17	0.19	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23
Heavy													
Diesel	0.26	0.24	0.22	0.23	0.27	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31
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
Liquefied Petroleum Gas	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heavy Subtotal	0.26	0.24	0.22	0.24	0.27	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32
Total Sales	0.45	0.41	0.39	0.41	0.47	0.52	0.53	0.54	0.54	0.54	0.54	0.54	0.55



Table 55. Freight Transportation Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Railroads</b>													
Ton Miles by Rail (billion)	1416.97	1336.07	1334.33	1367.99	1402.47	1445.00	1473.65	1492.14	1521.43	1545.08	1581.98	1610.42	1638.43
Fuel Efficiency (ton miles per thousand Btu)	2.82	2.85	2.88	2.91	2.94	2.97	3.00	3.03	3.06	3.09	3.12	3.15	3.19
Fuel Consumption (trillion Btu)													
Distillate (diesel)	501.83	468.45	463.16	470.10	477.12	486.68	491.37	492.55	497.20	499.88	506.70	510.65	514.34
Residual 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
<b>Domestic Shipping</b>													
Ton Miles Shipping (billion)	773.75	723.79	716.07	730.59	749.11	762.67	776.48	787.23	795.66	805.03	815.59	826.42	837.55
Fuel Efficiency (ton miles per thousand Btu)	2.29	2.29	2.30	2.30	2.31	2.31	2.31	2.32	2.32	2.33	2.33	2.34	2.34
Fuel Consumption (trillion Btu)													
Distillate (diesel)	241.92	223.99	221.16	225.20	230.44	234.15	237.91	240.72	242.81	245.18	247.90	250.69	253.55
Residual Oil	96.44	91.85	90.69	92.34	94.49	96.01	97.55	98.70	99.56	100.53	101.65	102.79	103.97
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
<b>International Shipping</b>													
Gross Trade (billion 1996 dollars)	2076.16	2095.83	2145.87	2295.31	2510.20	2710.03	2891.13	3078.37	3264.35	3465.65	3678.13	3906.66	4158.81
Exports (billion 1996 dollars)	785.17	756.94	754.24	806.19	906.14	1005.19	1094.40	1183.84	1270.93	1357.58	1449.49	1545.51	1645.59
Imports (billion 1996 dollars)	1290.99	1338.89	1391.63	1489.12	1604.06	1704.84	1796.73	1894.53	1993.42	2108.07	2228.64	2361.14	2513.22
Fuel Consumption (trillion Btu)													
Distillate (diesel)	52.22	42.35	46.73	46.81	46.92	47.01	47.09	47.16	47.23	47.30	47.37	47.45	47.52
Residual Oil	721.27	601.61	663.88	665.06	666.56	667.85	668.93	669.99	670.98	672.00	673.02	674.05	675.12

Table 55. Freight Transportation Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	46.16	47.58	49.13	50.85	52.58	54.21	55.99	57.71	59.65	61.64	63.67	65.86	3.3%
Gasoline	10.64	10.59	10.59	10.62	10.65	10.66	10.71	10.76	10.85	10.95	11.05	11.18	-0.8%
Liquefied Petroleum Gas	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	1.5%
Compressed Natural Gas	1.04	1.14	1.22	1.31	1.39	1.46	1.53	1.60	1.66	1.73	1.80	1.87	16.1%
Medium Subtotal	58.25	59.72	61.37	63.21	65.06	66.78	68.69	70.54	72.63	74.81	77.02	79.41	2.5%
Heavy													
Diesel	208.99	214.05	219.34	225.17	231.02	236.06	241.55	246.60	252.51	258.76	265.25	272.58	2.6%
Gasoline	1.04	1.04	1.05	1.07	1.09	1.10	1.12	1.13	1.16	1.18	1.21	1.24	-0.7%
Liquefied Petroleum Gas	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	7.9%
Compressed Natural Gas	0.80	0.84	0.87	0.90	0.92	0.94	0.96	0.97	0.99	1.01	1.03	1.06	14.0%
Heavy Subtotal	211.02	216.13	221.46	227.33	233.22	238.29	243.82	248.91	254.85	261.15	267.69	275.08	2.6%
Total Vehicle Miles Traveled	269.26	275.85	282.83	290.54	298.28	305.07	312.51	319.44	327.49	335.96	344.71	354.49	2.6%
Consumption (trillion Btu)													
Medium													
Diesel	688.72	709.84	732.94	757.74	782.75	806.19	831.85	856.70	884.69	913.63	943.16	975.00	3.2%
Gasoline	153.21	152.17	151.73	151.77	151.81	151.53	151.76	151.95	152.75	153.72	154.77	156.17	-1.1%
Liquefied Petroleum Gas	6.88	7.02	7.15	7.24	7.33	7.41	7.52	7.61	7.70	7.82	7.94	8.08	0.5%
Compressed Natural Gas	16.40	17.84	19.22	20.53	21.77	22.88	23.99	25.01	26.06	27.10	28.14	29.23	15.9%
Medium Subtotal	865.21	886.87	911.03	937.27	963.67	988.01	1015.12	1041.27	1071.21	1102.28	1134.02	1168.47	2.4%
Heavy													
Diesel	4624.39	4700.49	4778.11	4863.85	4945.54	5012.55	5092.25	5166.14	5260.90	5365.47	5477.27	5608.31	2.2%
Gasoline	17.95	18.01	18.14	18.34	18.57	18.78	19.04	19.30	19.65	20.04	20.47	20.98	-0.9%
Liquefied Petroleum Gas	3.33	3.35	3.35	3.35	3.35	3.34	3.34	3.34	3.35	3.37	3.41	3.45	7.7%
Compressed Natural Gas	13.76	14.40	14.92	15.40	15.82	16.14	16.47	16.73	17.03	17.37	17.74	18.19	13.9%
Heavy Subtotal	4659.42	4736.25	4814.53	4900.94	4983.29	5050.81	5131.11	5205.52	5300.93	5406.25	5518.88	5650.93	2.2%
Medium and Heavy Total													
Diesel	5313.11	5410.32	5511.05	5621.59	5728.30	5818.74	5924.10	6022.84	6145.59	6279.11	6420.44	6583.31	2.3%
Gasoline	171.16	170.18	169.87	170.11	170.39	170.31	170.80	171.25	172.40	173.76	175.24	177.14	-1.0%
Liquefied Petroleum Gas	10.20	10.37	10.50	10.59	10.68	10.75	10.87	10.95	11.06	11.20	11.35	11.53	1.7%
Compressed Natural Gas	30.16	32.25	34.14	35.93	37.59	39.02	40.47	41.74	43.09	44.47	45.88	47.42	15.0%
Total	5524.63	5623.12	5725.56	5838.22	5946.96	6038.82	6146.23	6246.79	6372.15	6508.53	6652.91	6819.40	2.2%
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.44	8.44	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	0.1%
Gasoline	8.70	8.73	8.75	8.78	8.81	8.83	8.86	8.88	8.91	8.93	8.95	8.97	0.3%
Liquefied Petroleum Gas	7.31	7.37	7.42	7.46	7.52	7.58	7.63	7.69	7.73	7.79	7.85	7.90	1.0%
Compressed Natural Gas	7.94	7.95	7.96	7.97	7.97	7.98	7.98	7.98	7.98	7.99	7.99	7.99	0.1%
Medium Average	8.47	8.48	8.48	8.49	8.49	8.50	8.50	8.50	8.51	8.51	8.51	8.51	0.1%
Heavy													
Diesel	5.65	5.70	5.74	5.79	5.84	5.89	5.93	5.97	6.00	6.03	6.06	6.08	0.4%
Gasoline	7.22	7.25	7.27	7.29	7.31	7.32	7.34	7.35	7.37	7.38	7.39	7.40	0.2%
Liquefied Petroleum Gas	7.26	7.26	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.2%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	0.1%
Heavy Average	5.66	5.71	5.75	5.80	5.85	5.90	5.94	5.98	6.01	6.04	6.07	6.09	0.4%
Average	6.10	6.14	6.18	6.22	6.27	6.32	6.36	6.40	6.43	6.46	6.48	6.50	0.4%

Table 55. Freight Transportation Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Stock (millions)													
Medium													
Diesel	3.00	3.07	3.13	3.19	3.26	3.32	3.38	3.44	3.49	3.55	3.61	3.67	2.4%
Gasoline	1.39	1.35	1.32	1.28	1.25	1.23	1.20	1.17	1.15	1.13	1.11	1.09	-2.5%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.6%
Compressed Natural Gas	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	13.4%
Medium Subtotal	4.49	4.53	4.56	4.60	4.64	4.68	4.72	4.75	4.79	4.83	4.87	4.92	0.8%
Heavy													
Diesel	5.32	5.40	5.47	5.53	5.60	5.66	5.72	5.77	5.82	5.86	5.91	5.97	1.5%
Gasoline	0.17	0.16	0.16	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	-4.3%
Liquefied Petroleum 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	6.1%
Compressed Natural Gas	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	13.7%
Heavy Subtotal	5.54	5.61	5.68	5.74	5.81	5.87	5.92	5.97	6.02	6.06	6.11	6.17	1.3%
Total Stock	10.03	10.14	10.24	10.34	10.45	10.54	10.64	10.72	10.81	10.89	10.99	11.09	1.1%
New Trucks by Size Class													
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	-0.1%
Gasoline	9.08	9.12	9.16	9.21	9.24	9.25	9.25	9.25	9.25	9.25	9.25	9.25	0.1%
Liquefied Petroleum Gas	8.00	8.00	8.00	8.00	8.24	8.24	8.26	8.27	8.27	8.48	8.48	8.48	0.2%
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	0.0%
Medium Average	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	-0.1%
Heavy													
Diesel	5.93	6.04	6.10	6.15	6.22	6.23	6.23	6.23	6.23	6.24	6.24	6.24	0.4%
Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	0.0%
Liquefied Petroleum Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Compressed Natural Gas	7.27	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Heavy Average	5.94	6.05	6.11	6.17	6.24	6.24	6.24	6.24	6.25	6.25	6.25	6.25	0.4%
Average	6.29	6.40	6.45	6.51	6.58	6.58	6.59	6.59	6.60	6.60	6.60	6.60	0.3%
Sales (millions)													
Medium													
Diesel	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.21	2.0%
Gasoline	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.2%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8%
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	9.1%
Medium Subtotal	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	1.8%
Heavy													
Diesel	0.32	0.32	0.31	0.32	0.32	0.32	0.32	0.31	0.32	0.32	0.33	0.34	1.5%
Gasoline	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.6%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.1%
Compressed Natural Gas	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%
Heavy Subtotal	0.33	0.33	0.32	0.33	0.33	0.33	0.33	0.32	0.33	0.33	0.34	0.35	1.6%
Total Sales	0.56	0.56	0.55	0.56	0.57	0.57	0.57	0.56	0.57	0.58	0.59	0.60	1.7%

Table 55. Freight Transportation Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Railroads</b>													
Ton Miles by Rail (billion)	1663.55	1689.96	1730.52	1761.48	1787.71	1818.86	1851.70	1884.34	1926.27	1974.77	2012.89	2056.19	1.9%
Fuel Efficiency (ton miles per thousand Btu)	3.22	3.25	3.28	3.32	3.35	3.38	3.42	3.45	3.49	3.52	3.56	3.59	1.0%
Fuel Consumption (trillion Btu)													
Distillate (diesel)	517.00	519.96	527.11	531.18	533.70	537.57	541.80	545.84	552.40	560.65	565.76	572.14	0.9%
Residual 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	N/A
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	N/A
<b>Domestic Shipping</b>													
Ton Miles Shipping (billion)	847.12	857.37	865.07	876.67	894.85	908.38	918.40	924.68	933.72	948.73	964.20	976.90	1.3%
Fuel Efficiency (ton miles per thousand Btu)	2.35	2.35	2.36	2.36	2.37	2.37	2.38	2.38	2.39	2.39	2.39	2.40	0.2%
Fuel Consumption (trillion Btu)													
Distillate (diesel)	255.94	258.52	260.32	263.28	268.20	271.71	274.16	275.48	277.62	281.52	285.54	288.72	1.1%
Residual Oil	104.95	106.00	106.74	107.96	109.97	111.41	112.42	112.96	113.84	115.44	117.08	118.39	1.1%
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	N/A
<b>International Shipping</b>													
Gross Trade (billion 1996 dollars)	4421.93	4678.32	4959.33	5279.59	5630.32	5993.94	6382.50	6779.09	7209.91	7674.52	8154.47	8662.40	6.4%
Exports (billion 1996 dollars)	1750.05	1852.95	1965.49	2098.86	2250.06	2400.25	2546.94	2699.25	2868.17	3052.94	3248.49	3458.02	6.8%
Imports (billion 1996 dollars)	2671.88	2825.37	2993.84	3180.74	3380.25	3593.69	3835.56	4079.84	4341.74	4621.58	4905.97	5204.38	6.1%
Fuel Consumption (trillion Btu)													
Distillate (diesel)	47.60	47.66	47.73	47.81	47.89	47.96	48.04	48.12	48.19	48.27	48.34	48.42	0.6%
Residual Oil	676.17	677.14	678.15	679.23	680.34	681.42	682.51	683.56	684.64	685.72	686.78	687.84	0.6%

Table 55. Freight Transportation Energy Use

MPG = Miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, and 22 and Annual (Oak Ridge, TN, September 2002); 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 2001 (Washington, DC, November 2002); and Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Car													
Unit Body Construction	93.01	92.87	94.04	92.73	93.46	93.41	93.40	93.39	93.40	93.36	93.37	93.34	93.36
Material Substitution II	49.97	51.01	51.00	51.01	50.99	54.65	54.63	54.63	54.62	54.60	54.60	54.58	54.57
Material Substitution III	0.05	0.32	0.63	1.06	1.67	3.41	4.29	4.53	5.25	6.65	7.01	8.13	8.70
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.29	0.52	0.87	1.19	1.61	2.01
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	54.48	55.86	55.00	55.89	55.40	60.42	60.36	60.25	59.08	55.82	55.29	52.62	50.53
Drag Reduction III	0.25	0.92	1.60	2.66	4.10	10.22	14.12	15.07	17.41	21.97	22.43	25.40	27.17
Drag Reduction IV	0.00	0.09	0.28	0.74	1.40	3.66	5.40	6.19	7.78	10.57	11.71	14.15	15.56
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.19	0.54	1.04
Roll-Over Technology	0.00	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	8.68	13.32	13.46	16.39	20.53	32.65	37.42	39.11	42.89	47.64	50.34	54.93	58.21
Early Torque Converter Lockup	0.00	0.18	0.62	1.86	3.90	11.60	16.84	19.47	23.99	30.52	32.76	37.92	41.30
Aggressive Shift Logic	2.98	3.29	3.32	3.55	3.83	5.38	6.11	6.40	6.96	8.28	8.67	9.56	10.21
4-Speed Automatic	71.55	71.59	69.66	71.48	70.04	69.38	68.78	68.00	66.37	63.59	62.22	60.74	58.07
5-Speed Automatic	7.94	7.99	7.77	8.13	8.10	8.31	8.44	8.53	8.64	8.78	8.85	9.01	9.14
6-Speed Automatic	0.00	0.00	0.00	0.02	0.11	0.28	0.46	0.65	0.87	1.15	1.42	1.73	1.98
6-Speed Manual	1.01	1.18	1.27	1.42	1.67	2.31	2.60	2.78	3.05	3.36	3.45	3.64	3.72
CVT	0.06	0.18	0.33	0.52	0.86	1.50	1.90	2.17	2.63	3.30	3.55	4.11	4.84
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.04	0.19	0.63	1.73	4.11	5.67	7.69	10.07
Roller Cam	90.93	96.18	96.09	96.40	96.36	97.31	97.35	97.38	97.42	97.47	97.48	97.51	97.50
OHC/AdvOHV-4 Cylinder	3.51	3.49	3.62	2.93	3.03	3.01	3.02	3.02	3.02	3.02	3.02	3.01	3.02
OHC/AdvOHV-6 Cylinder	5.19	5.22	4.94	5.08	4.80	4.62	4.44	4.27	4.11	4.00	3.94	3.88	3.86
OHC/AdvOHV-8 Cylinder	3.18	3.22	2.80	3.27	3.01	3.02	3.02	3.02	3.01	3.02	3.01	3.02	3.00
4-Valve/4-Cylinder	47.04	46.79	50.00	46.97	48.86	48.72	48.67	48.66	48.69	48.61	48.63	48.55	48.62
4-Valve/6-Cylinder	23.47	22.98	21.71	23.27	22.63	22.87	23.07	23.25	23.39	23.52	23.58	23.67	23.66
4-Valve/8-Cylinder	8.74	8.85	8.02	9.08	8.65	8.84	9.00	9.14	9.25	9.33	9.32	9.35	9.34
5-Valve/6-Cylinder	1.60	2.19	2.11	2.22	2.17	2.19	2.19	2.19	2.20	2.21	2.21	2.21	2.21
VVT-4 Cylinder	17.39	22.10	27.03	32.35	35.36	41.16	44.01	45.03	47.09	48.03	48.01	48.03	47.93
VVT-6 Cylinder	3.43	3.65	3.54	4.26	4.38	4.88	5.21	5.47	5.83	6.44	6.60	7.03	7.32
VVT-8 Cylinder	0.47	0.71	0.85	1.45	1.56	1.95	2.22	2.33	2.52	2.83	2.93	3.25	3.46
VVL-4 Cylinder	6.54	6.53	6.77	6.95	7.26	7.57	7.84	8.09	8.34	8.62	8.76	9.01	9.18
VVL-6 Cylinder	0.41	0.55	0.78	1.15	1.39	1.85	2.18	2.47	2.81	3.23	3.39	3.73	3.90
VVL-8 Cylinder	1.15	1.28	1.29	1.65	1.66	1.88	2.01	2.07	2.06	2.06	2.03	2.03	2.00
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.27	0.50	0.79
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.27	0.46	0.74	1.03
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.22	0.38	0.56	0.77	0.98
Cylinder Deactivation	0.00	0.00	0.00	0.03	0.16	0.48	0.83	1.15	1.41	1.76	2.00	2.39	2.71
Turbocharging/Supercharging	0.03	0.14	0.27	0.52	0.68	0.93	1.14	1.35	1.57	1.79	1.91	2.09	2.19
Engine Friction Reduction I	66.98	69.06	69.48	69.02	69.23	62.72	61.51	61.42	60.78	58.02	57.39	54.98	53.85
Engine Friction Reduction II	19.37	22.52	22.32	25.24	25.41	35.09	36.70	36.87	37.59	40.36	40.57	42.44	42.46
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.23	0.73	1.38	2.47	3.67
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	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.28	0.49	0.81	1.10	1.48	1.97
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.25	0.44	0.70	0.96	1.26	1.62
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.03	0.15	0.34	0.61	1.04	1.40	1.87	2.30
5W-30 Engine Oil	40.28	40.38	39.85	40.44	40.11	41.27	41.24	41.22	41.18	41.12	41.08	41.01	40.95
5W-20 Engine Oil	0.00	0.00	0.07	0.34	1.05	3.75	6.81	8.80	12.04	16.82	18.80	23.02	25.25
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	0.00	0.00	0.00	0.04	0.17	0.56	1.12	1.77	2.72	4.22	5.35	7.32	9.16
Improved Alternator	0.00	0.00	0.00	0.00	0.03	0.16	0.37	0.62	0.98	1.44	1.79	2.28	2.70
Improved Oil/Water Pump	0.09	0.69	1.40	2.48	3.97	10.14	14.08	15.04	17.43	22.11	22.58	25.62	27.41

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.29	0.53	0.82	1.19	1.56
Tires II	52.97	58.37	57.08	58.52	57.75	65.71	65.69	65.65	65.58	65.52	65.46	65.39	65.26
Tires III	0.00	0.00	0.00	0.00	0.06	0.43	1.39	2.62	4.70	8.26	10.84	15.25	18.36
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	82.67	82.71	82.51	82.72	82.62	82.62	82.63	82.64	82.64	82.65	82.64	82.65	82.65
Four Wheel Drive Improvements	0.02	0.15	0.28	0.45	0.63	1.05	1.28	1.36	1.52	1.76	1.78	1.91	1.91
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.54	0.73	0.92	1.12
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.54	0.73	0.92	1.12	1.32
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Truck													
Unit Body Construction	18.83	19.09	20.63	19.37	20.37	32.00	35.22	35.08	35.06	35.04	35.03	35.02	35.04
Material Substitution II	30.49	31.30	31.09	31.48	31.52	60.19	65.04	65.08	65.10	65.10	65.05	64.99	64.91
Material Substitution III	0.00	0.07	0.17	0.42	0.81	5.59	13.94	13.94	13.94	13.94	13.94	13.99	14.09
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.41
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	33.85	41.86	42.24	42.34	44.86	61.72	45.62	45.49	44.54	40.24	36.79	27.96	24.41
Drag Reduction III	0.16	1.12	2.32	4.29	7.64	31.48	47.25	47.24	47.24	48.72	49.95	54.26	55.26
Drag Reduction IV	0.00	0.00	0.00	0.00	0.00	0.71	6.05	6.37	7.95	11.03	13.26	17.78	20.33
Drag Reduction 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
Roll-Over Technology	0.00	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.00	0.00	0.00	0.00	0.21	5.97	21.27	24.01	29.65	37.29	43.09	51.28	57.39
Early Torque Converter Lockup	0.00	0.00	0.00	0.00	0.00	1.69	10.76	13.15	17.87	24.93	29.06	35.53	41.40
Aggressive Shift Logic	0.00	0.00	0.00	0.00	0.00	0.45	3.18	3.36	4.19	5.76	6.88	9.13	10.97
4-Speed Automatic	83.61	83.47	84.17	83.26	83.61	82.17	80.94	80.93	80.87	80.71	80.53	80.09	79.50
5-Speed Automatic	6.06	6.21	6.11	6.47	6.57	8.59	10.11	10.05	10.02	10.03	10.02	10.10	10.12
6-Speed Automatic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.21	0.39	0.67	0.97
6-Speed Manual	0.03	0.14	0.26	0.46	0.72	3.01	5.02	5.02	5.02	5.02	5.02	5.03	5.02
CVT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.13	0.22	0.32
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.20	0.64
Roller Cam	79.34	81.33	83.26	85.31	87.18	91.95	96.16	97.12	98.18	99.23	99.23	99.23	99.23
OHC/AdvOHV-4 Cylinder	2.93	2.92	2.54	2.84	2.60	1.58	0.44	0.45	0.45	0.46	0.46	0.46	0.45
OHC/AdvOHV-6 Cylinder	40.16	40.36	40.96	40.59	40.73	37.65	35.10	35.14	35.17	35.16	35.15	35.14	35.15
OHC/AdvOHV-8 Cylinder	25.29	25.23	24.98	25.09	24.93	24.22	22.84	22.80	22.78	22.77	22.79	22.78	22.78
4-Valve/4-Cylinder	6.77	6.80	6.61	6.94	6.85	7.76	8.99	9.03	9.04	9.05	9.05	9.06	9.05
4-Valve/6-Cylinder	8.10	8.19	8.30	8.73	9.02	14.90	19.68	19.67	19.67	19.67	19.67	19.66	19.67
4-Valve/8-Cylinder	3.58	3.65	3.74	3.91	4.09	7.24	10.43	10.40	10.38	10.39	10.39	10.39	10.39
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	0.28	1.65	3.38	5.83	6.79	9.34	9.43	9.48	9.49	9.51	9.50	9.51	9.50
VVT-6 Cylinder	0.07	0.28	0.55	1.01	1.66	9.35	19.77	19.79	19.79	19.79	19.79	19.79	19.78
VVT-8 Cylinder	0.06	0.22	0.34	0.62	1.07	6.32	12.54	12.52	12.50	12.50	12.50	12.47	12.42
VVL-4 Cylinder	0.00	0.04	0.11	0.30	0.54	4.16	7.05	7.05	7.01	6.95	6.84	6.67	6.47
VVL-6 Cylinder	0.05	0.17	0.34	0.61	0.99	4.11	7.29	7.29	7.29	7.28	7.27	7.25	7.22
VVL-8 Cylinder	0.00	0.00	0.00	0.00	0.00	0.12	0.42	0.55	0.77	1.05	1.27	1.55	1.78
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.15
Cylinder Deactivation	0.00	0.00	0.00	0.04	0.12	1.06	4.53	4.53	4.52	5.09	5.45	6.56	7.45
Turbocharging/Supercharging	0.02	0.08	0.16	0.29	0.42	1.15	1.78	1.78	1.78	1.79	1.86	2.00	2.05
Engine Friction Reduction I	48.77	58.58	59.60	63.83	68.55	66.29	50.53	50.53	50.50	48.19	46.37	40.61	38.16

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Engine Friction Reduction II	0.19	1.38	2.90	5.42	9.58	33.71	49.47	49.47	49.50	51.74	53.38	58.58	59.97
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.25	0.81	1.87
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	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.16	0.29	0.52	0.77
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.21	0.40
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.27	0.52
5W-30 Engine Oil	37.25	42.03	41.84	42.00	42.01	74.20	67.09	67.09	66.68	63.01	60.69	55.30	51.34
5W-20 Engine Oil	0.00	0.00	0.12	0.45	1.55	15.42	32.91	32.91	33.32	36.99	39.31	44.70	48.66
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	0.00	0.00	0.00	0.00	0.03	0.51	3.50	3.51	4.01	5.40	6.52	8.91	10.88
Improved Alternator	0.00	0.00	0.00	0.00	0.03	0.48	2.00	2.02	2.32	2.87	3.25	3.98	4.52
Improved Oil/Water Pump	0.16	1.13	2.34	4.33	7.72	31.32	47.00	47.00	47.00	48.59	49.92	54.53	55.79
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.25	0.47	0.83	1.24
Tires II	39.57	49.91	50.46	52.68	57.24	88.66	84.07	83.39	80.36	75.25	72.92	67.49	63.17
Tires III	0.00	0.00	0.00	0.00	0.10	3.13	15.93	16.61	19.64	24.75	27.08	32.51	36.83
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	15.35	15.26	17.37	15.05	16.22	15.57	15.90	16.01	16.10	16.04	16.05	16.00	16.04
Four Wheel Drive Improvements	0.04	0.17	0.32	0.58	0.97	4.31	9.03	9.01	9.00	9.01	9.01	9.01	9.01
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.02	0.18	0.54	0.68	0.87	1.09	1.28	1.50
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.02	0.18	0.54	0.68	0.87	1.09	1.28	1.50	1.68
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light-Duty Vehicle Total													
Unit Body Construction	57.81	56.57	58.19	55.73	56.40	62.06	63.51	63.22	62.99	62.68	62.44	62.11	61.82
Material Substitution II	40.73	41.31	41.27	41.16	41.12	57.48	59.98	60.04	60.08	60.12	60.14	60.15	60.16
Material Substitution III	0.03	0.19	0.41	0.74	1.23	4.52	9.25	9.40	9.78	10.49	10.69	11.27	11.62
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.25	0.42	0.61	0.87	1.15
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	44.69	48.97	48.77	49.05	50.05	61.08	52.78	52.61	51.50	47.63	45.48	39.41	36.40
Drag Reduction III	0.21	1.02	1.95	3.48	5.90	21.07	31.14	31.72	32.96	36.04	37.02	40.85	42.36
Drag Reduction IV	0.00	0.04	0.14	0.37	0.69	2.16	5.73	6.28	7.87	10.81	12.53	16.10	18.14
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.25	0.48
Roll-Over Technology	0.00	0.00	0.00	0.00	12.32	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	12.32	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	4.56	6.76	6.88	8.12	10.23	19.03	29.12	31.30	35.99	42.19	46.50	52.97	57.77
Early Torque Converter Lockup	0.00	0.09	0.32	0.92	1.92	6.54	13.72	16.20	20.80	27.58	30.80	36.64	41.35
Aggressive Shift Logic	1.57	1.67	1.70	1.76	1.89	2.86	4.60	4.83	5.52	6.96	7.72	9.33	10.62
4-Speed Automatic	77.27	77.44	76.75	77.42	76.92	75.91	75.03	74.69	73.93	72.60	71.93	71.10	69.66
5-Speed Automatic	7.05	7.12	6.96	7.29	7.32	8.45	9.30	9.32	9.36	9.44	9.47	9.60	9.67
6-Speed Automatic	0.00	0.00	0.00	0.01	0.05	0.14	0.22	0.32	0.46	0.66	0.87	1.16	1.44
6-Speed Manual	0.54	0.67	0.78	0.93	1.19	2.66	3.85	3.94	4.08	4.24	4.29	4.38	4.43
CVT	0.03	0.09	0.17	0.26	0.42	0.73	0.93	1.05	1.28	1.60	1.74	2.02	2.40
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.31	0.83	1.95	2.69	3.68	4.97
Roller Cam	85.43	88.87	89.83	90.80	91.71	94.57	96.74	97.24	97.82	98.40	98.41	98.43	98.44
OHC/AdvOHV-4 Cylinder	3.24	3.21	3.09	2.88	2.81	2.28	1.69	1.69	1.68	1.67	1.66	1.64	1.63
OHC/AdvOHV-6 Cylinder	21.78	22.51	22.53	22.99	23.02	21.49	20.19	20.24	20.30	20.39	20.49	20.62	20.78
OHC/AdvOHV-8 Cylinder	13.67	14.05	13.63	14.28	14.12	13.84	13.20	13.26	13.32	13.41	13.50	13.60	13.70
4-Valve/4-Cylinder	27.93	27.11	28.81	26.78	27.56	27.81	28.29	28.15	28.02	27.80	27.64	27.40	27.22
4-Valve/6-Cylinder	16.17	15.70	15.16	15.94	15.73	18.80	21.33	21.40	21.45	21.49	21.50	21.53	21.50
4-Valve/8-Cylinder	6.29	6.29	5.93	6.47	6.34	8.03	9.73	9.79	9.84	9.89	9.89	9.91	9.91
5-Valve/6-Cylinder	0.84	1.11	1.08	1.10	1.07	1.07	1.07	1.06	1.05	1.05	1.04	1.03	1.02



Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
VVT-4 Cylinder	9.27	12.04	15.48	18.97	20.87	24.91	26.25	26.63	27.49	27.77	27.59	27.40	27.15
VVT-6 Cylinder	1.83	1.99	2.08	2.62	3.00	7.16	12.69	12.88	13.11	13.46	13.60	13.86	14.05
VVT-8 Cylinder	0.28	0.47	0.60	1.03	1.31	4.18	7.52	7.60	7.72	7.92	8.00	8.19	8.31
VVL-4 Cylinder	3.43	3.34	3.52	3.59	3.85	5.83	7.44	7.55	7.65	7.74	7.74	7.76	7.71
VVL-6 Cylinder	0.24	0.36	0.56	0.88	1.19	3.00	4.80	4.96	5.14	5.36	5.45	5.62	5.70
VVL-8 Cylinder	0.60	0.65	0.66	0.82	0.82	0.98	1.20	1.28	1.38	1.53	1.63	1.77	1.88
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.23	0.36
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.13	0.22	0.36	0.52
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.11	0.18	0.27	0.39	0.53
Cylinder Deactivation	0.00	0.00	0.00	0.03	0.14	0.77	2.73	2.90	3.03	3.51	3.83	4.62	5.27
Turbocharging/Supercharging	0.02	0.11	0.22	0.40	0.55	1.04	1.47	1.57	1.68	1.79	1.89	2.05	2.12
Engine Friction Reduction I	58.34	63.90	64.65	66.40	68.89	64.54	55.87	55.79	55.42	52.85	51.55	47.29	45.36
Engine Friction Reduction II	10.27	12.12	12.84	15.24	17.38	34.38	43.26	43.39	43.80	46.35	47.36	51.08	51.93
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.38	0.78	1.58	2.70
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	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.27	0.47	0.67	0.96	1.32
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.12	0.21	0.35	0.50	0.70	0.96
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.16	0.29	0.51	0.71	1.01	1.34
5W-30 Engine Oil	38.85	41.19	40.82	41.22	41.07	58.08	54.52	54.61	54.47	52.63	51.48	48.66	46.57
5W-20 Engine Oil	0.00	0.00	0.09	0.40	1.30	9.70	20.22	21.28	23.14	27.43	29.67	34.63	37.91
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	0.00	0.00	0.00	0.02	0.10	0.53	2.34	2.67	3.39	4.84	5.97	8.17	10.09
Improved Alternator	0.00	0.00	0.00	0.00	0.03	0.32	1.21	1.34	1.68	2.19	2.56	3.19	3.68
Improved Oil/Water Pump	0.13	0.91	1.86	3.42	5.87	20.95	30.99	31.58	32.84	36.04	37.07	41.10	42.76
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.19	0.38	0.63	1.00	1.39
Tires II	46.61	54.21	53.85	55.57	57.49	77.42	75.13	74.83	73.28	70.64	69.42	66.52	64.13
Tires III	0.00	0.00	0.00	0.00	0.08	1.81	8.86	9.86	12.49	16.93	19.45	24.49	28.35
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	50.72	49.52	50.70	48.58	48.95	48.39	48.36	48.16	47.96	47.61	47.33	46.96	46.63
Four Wheel Drive Improvements	0.03	0.16	0.30	0.51	0.81	2.71	5.26	5.32	5.42	5.57	5.61	5.71	5.75
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.02	0.14	0.38	0.52	0.71	0.92	1.11	1.33
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.02	0.14	0.38	0.52	0.71	0.92	1.11	1.32	1.51
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Car													
Unit Body Construction	93.37	93.38	93.39	93.38	93.37	93.38	93.38	93.39	93.39	93.38	93.40	93.38	0.0%
Material Substitution II	54.56	54.55	54.55	54.54	54.53	54.53	54.52	54.52	54.52	54.51	54.51	54.51	0.3%
Material Substitution III	9.26	9.49	9.73	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	16.2%
Material Substitution IV	2.43	2.86	3.23	3.59	3.89	4.19	4.36	4.52	4.66	4.71	4.74	4.77	N/A
Material Substitution V	0.02	0.11	0.25	0.44	0.69	0.97	1.25	1.55	1.86	2.18	2.44	2.71	N/A
Drag Reduction II	47.98	46.37	45.14	44.04	43.21	42.38	41.66	40.96	40.42	39.91	39.65	39.35	-1.5%
Drag Reduction III	28.27	28.72	29.18	29.48	29.49	29.47	29.46	29.45	29.44	29.45	29.44	29.45	16.3%
Drag Reduction IV	16.76	17.55	17.76	17.96	18.12	18.14	18.15	18.15	18.15	18.15	18.14	18.15	26.1%
Drag Reduction V	1.73	2.52	3.39	4.30	5.26	6.29	7.21	8.09	8.80	9.48	9.83	10.22	N/A
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	N/A
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	N/A
Advanced Low Loss Torque Converter	61.54	62.91	64.56	65.72	65.72	65.70	65.69	65.67	65.66	65.66	65.64	65.64	7.2%
Early Torque Converter Lockup	44.08	46.89	48.02	49.25	50.28	50.38	50.42	50.41	50.41	50.41	50.40	50.41	27.6%
Aggressive Shift Logic	10.85	11.11	11.38	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	5.6%
4-Speed Automatic	57.28	56.78	56.32	56.06	55.97	55.69	55.56	55.51	55.46	55.45	55.39	55.38	-1.1%
5-Speed Automatic	9.27	9.32	9.38	9.40	9.40	9.40	9.40	9.40	9.39	9.40	9.39	9.40	0.7%
6-Speed Automatic	2.18	2.36	2.48	2.58	2.62	2.84	2.91	2.92	2.92	2.92	2.91	2.92	N/A
6-Speed Manual	3.81	3.86	3.89	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	5.4%
CVT	5.24	5.44	5.63	5.76	5.81	5.85	5.91	5.95	5.98	6.01	6.03	6.08	16.6%
Automated Manual Trans	10.13	10.19	10.26	10.30	10.30	10.31	10.31	10.32	10.32	10.32	10.33	10.32	N/A
Roller Cam	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	0.1%
OHC/AdvOHV-4 Cylinder	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	-0.6%
OHC/AdvOHV-6 Cylinder	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.84	3.85	3.84	3.85	-1.3%
OHC/AdvOHV-8 Cylinder	3.00	2.99	2.99	2.99	2.99	2.99	2.99	2.98	2.98	2.98	2.98	2.99	-0.3%
4-Valve/4-Cylinder	48.62	48.63	48.66	48.62	48.60	48.63	48.63	48.64	48.67	48.65	48.69	48.65	0.2%
4-Valve/6-Cylinder	23.66	23.66	23.65	23.66	23.67	23.66	23.66	23.66	23.65	23.66	23.64	23.66	0.1%
4-Valve/8-Cylinder	9.34	9.34	9.33	9.34	9.35	9.34	9.34	9.33	9.33	9.34	9.33	9.34	0.2%
5-Valve/6-Cylinder	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	0.0%
VVT-4 Cylinder	47.75	47.57	47.31	47.02	46.74	46.48	46.19	46.01	45.85	45.71	45.33	45.10	3.1%
VVT-6 Cylinder	7.59	7.71	7.83	7.90	7.90	7.88	7.88	7.88	7.88	7.87	7.86	7.87	3.4%
VVT-8 Cylinder	3.66	3.67	3.69	3.70	3.64	3.58	3.49	3.45	3.35	3.31	3.30	3.29	6.9%
VVL-4 Cylinder	9.41	9.51	9.62	9.69	9.69	9.69	9.62	9.34	9.13	9.03	8.84	8.72	1.3%
VVL-6 Cylinder	4.10	4.16	4.24	4.30	4.28	4.27	4.27	4.26	4.26	4.16	4.12	4.10	9.2%
VVL-8 Cylinder	1.95	1.92	1.95	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.9%
Camless Valve Actuation-4cyl	1.11	1.45	1.94	2.38	2.83	3.22	3.62	3.92	4.22	4.38	4.97	5.24	N/A
Camless Valve Actuation-6cyl	1.34	1.74	2.11	2.48	2.79	3.11	3.38	3.63	3.76	4.16	4.32	4.38	N/A
Camless Valve Actuation-8cyl	1.23	1.40	1.53	1.66	1.80	1.93	2.07	2.14	2.29	2.37	2.38	2.39	N/A
Cylinder Deactivation	3.03	3.34	3.67	3.99	4.15	4.31	4.46	4.47	4.47	4.47	4.47	4.47	N/A
Turbocharging/Supercharging	2.30	2.33	2.38	2.42	2.42	2.43	2.43	2.43	2.43	2.43	2.43	2.43	13.3%
Engine Friction Reduction I	52.43	50.95	49.33	47.54	45.88	44.13	42.53	40.93	39.89	38.81	37.77	36.75	-2.7%
Engine Friction Reduction II	42.56	42.61	42.71	42.79	42.79	42.78	42.78	42.78	42.77	42.78	42.75	42.75	2.8%
Engine Friction Reduction III	5.01	6.43	7.93	9.49	10.83	12.14	13.13	14.03	14.29	14.54	14.74	14.81	N/A
Engine Friction Reduction IV	0.00	0.00	0.03	0.18	0.50	0.95	1.56	2.27	3.04	3.87	4.75	5.69	N/A
Stoichiometric GDI/4-Cylinder	2.42	2.86	3.24	3.61	3.90	4.19	4.36	4.94	5.19	5.27	5.32	5.37	N/A
Stoichiometric GDI/6-Cylinder	1.95	2.27	2.55	2.83	3.05	3.27	3.38	3.70	3.83	3.87	3.88	3.90	N/A
Lean Burn GDI	2.75	3.20	3.57	3.92	4.20	4.48	4.62	4.79	4.91	4.92	4.93	4.93	N/A
5W-30 Engine Oil	40.90	40.86	40.82	40.81	40.80	40.78	40.78	40.77	40.77	40.77	40.77	40.78	0.0%
5W-20 Engine Oil	27.88	29.09	30.67	31.52	32.44	33.24	33.50	33.49	33.48	33.49	33.48	33.49	N/A
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	N/A
Electric Power Steering	10.93	12.70	14.28	15.82	16.87	17.58	17.95	18.14	18.27	18.41	18.51	18.70	N/A
Improved Alternator	3.14	3.49	3.84	4.11	4.38	4.50	4.64	4.75	4.75	4.75	4.75	4.75	N/A
Improved Oil/Water Pump	28.53	28.98	29.45	29.75	29.76	29.75	29.75	29.75	29.74	29.75	29.73	29.75	17.8%

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Oil/Water Pump	1.95	2.36	2.78	3.14	3.50	3.80	4.10	4.26	4.43	4.56	4.60	4.64	N/A
Tires II	65.16	64.85	63.84	63.00	62.02	60.63	59.04	57.54	56.29	54.91	53.41	51.99	-0.5%
Tires III	20.63	22.36	24.73	26.76	28.03	28.77	29.73	30.52	30.68	30.69	30.67	30.69	N/A
Tires IV	0.00	0.05	0.24	0.71	1.45	2.53	3.89	5.44	7.15	8.97	10.91	12.74	N/A
Front Wheel Drive	82.65	82.65	82.65	82.65	82.65	82.65	82.65	82.65	82.64	82.65	82.64	82.65	0.0%
Four Wheel Drive Improvements	1.91	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.02	2.03	12.1%
42V-Launch Assist and Regen	1.32	1.52	1.68	1.84	1.96	2.08	2.13	2.20	2.24	2.25	2.25	2.25	N/A
42V-Engine Off at Idle	1.52	1.68	1.84	1.96	2.08	2.13	2.20	2.24	2.25	2.25	2.25	2.25	N/A
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	N/A
Increased Size/Weight	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	10.5%
Variable Compression Ratio	0.00	0.02	0.11	0.24	0.40	0.61	0.82	1.04	1.31	1.55	1.79	1.98	N/A
Light Truck													
Unit Body Construction	35.02	35.02	35.02	35.00	34.99	34.99	34.99	34.99	35.01	35.01	35.04	35.02	2.7%
Material Substitution II	64.83	64.75	64.67	64.58	64.48	64.35	64.26	64.16	64.10	64.05	63.99	63.94	3.2%
Material Substitution III	14.17	14.24	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	26.4%
Material Substitution IV	0.70	1.01	1.35	1.70	2.06	2.44	2.80	3.15	3.47	3.79	3.94	4.13	N/A
Material Substitution V	0.00	0.00	0.00	0.00	0.02	0.06	0.13	0.24	0.39	0.56	0.73	0.91	N/A
Drag Reduction II	20.28	17.44	15.38	13.84	12.75	11.55	10.45	9.81	9.15	8.50	8.01	7.48	-7.2%
Drag Reduction III	56.70	57.43	56.94	56.24	55.69	55.08	54.29	53.89	53.49	53.03	52.51	51.96	18.1%
Drag Reduction IV	22.99	25.01	27.34	29.20	30.25	31.28	32.28	32.35	32.35	32.35	32.34	32.35	N/A
Drag Reduction V	0.03	0.12	0.34	0.71	1.31	2.08	2.98	3.96	5.01	6.12	7.13	8.22	N/A
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	N/A
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	N/A
Advanced Low Loss Torque Converter	63.32	68.58	73.97	76.08	78.68	80.60	80.69	80.69	80.69	80.65	80.64	80.64	N/A
Early Torque Converter Lockup	46.69	51.81	56.26	60.60	62.41	64.58	66.39	66.42	66.41	66.38	66.37	66.36	N/A
Aggressive Shift Logic	12.77	14.49	15.72	16.93	17.38	17.84	18.27	18.29	18.29	18.29	18.29	18.29	N/A
4-Speed Automatic	78.70	77.43	76.08	75.02	73.93	72.81	71.71	70.92	70.73	70.01	69.75	69.65	-0.8%
5-Speed Automatic	10.19	10.24	10.24	10.23	10.24	10.23	10.23	10.23	10.23	10.23	10.23	10.23	2.2%
6-Speed Automatic	1.28	1.70	2.07	2.42	2.75	3.08	3.38	3.67	3.80	4.26	4.42	4.45	N/A
6-Speed Manual	5.03	5.03	5.02	5.03	5.03	5.03	5.03	5.03	5.02	5.03	5.02	5.02	16.9%
CVT	0.43	0.59	0.74	0.89	1.04	1.18	1.31	1.44	1.52	1.77	1.90	1.95	N/A
Automated Manual Trans	1.42	2.35	3.28	3.90	4.54	5.19	5.86	6.23	6.22	6.23	6.21	6.23	N/A
Roller Cam	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	0.9%
OHC/AdvOHV-4 Cylinder	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.46	-7.8%
OHC/AdvOHV-6 Cylinder	35.13	35.14	35.14	35.13	35.13	35.13	35.13	35.13	35.14	35.14	35.16	35.15	-0.6%
OHC/AdvOHV-8 Cylinder	22.80	22.79	22.79	22.79	22.80	22.80	22.79	22.80	22.80	22.80	22.79	22.79	-0.4%
4-Valve/4-Cylinder	9.05	9.05	9.05	9.05	9.06	9.05	9.05	9.05	9.04	9.05	9.04	9.05	1.2%
4-Valve/6-Cylinder	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.67	19.66	3.9%
4-Valve/8-Cylinder	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	4.7%
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	N/A
VVT-4 Cylinder	9.49	9.44	9.35	9.21	9.01	8.77	8.50	8.10	7.72	7.35	6.98	6.61	6.2%
VVT-6 Cylinder	19.76	19.72	19.67	19.61	19.54	19.45	19.36	19.27	19.18	19.09	19.01	18.88	20.0%
VVT-8 Cylinder	12.36	12.29	12.22	12.14	12.04	11.95	11.85	11.75	11.65	11.55	11.44	11.38	18.8%
VVL-4 Cylinder	6.24	5.89	5.52	5.11	4.66	4.28	4.20	4.10	4.00	3.84	3.76	3.70	21.4%
VVL-6 Cylinder	7.16	7.11	7.01	6.89	6.77	6.63	6.52	6.52	6.52	6.52	6.52	6.52	17.1%
VVL-8 Cylinder	2.02	2.27	2.51	2.76	2.87	2.99	3.09	3.09	3.09	3.09	3.09	3.09	N/A
Camless Valve Actuation-4cyl	0.02	0.06	0.15	0.29	0.50	0.74	1.02	1.41	1.77	2.16	2.51	2.89	N/A
Camless Valve Actuation-6cyl	0.22	0.42	0.71	1.04	1.40	1.89	2.35	2.82	3.26	3.70	4.11	4.53	N/A
Camless Valve Actuation-8cyl	0.27	0.44	0.62	0.82	1.08	1.31	1.56	1.80	2.06	2.30	2.55	2.69	N/A
Cylinder Deactivation	8.36	9.21	9.60	9.92	10.17	10.17	10.17	10.17	10.17	10.17	10.16	10.17	N/A
Turbocharging/Supercharging	2.10	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	15.4%
Engine Friction Reduction I	34.68	31.00	27.94	24.63	20.87	17.27	14.22	11.06	8.62	7.53	6.70	5.63	-9.7%

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Engine Friction Reduction II	61.57	62.71	62.70	62.64	62.43	62.16	61.93	60.97	59.66	57.19	55.16	53.09	17.2%
Engine Friction Reduction III	3.75	6.30	9.30	12.54	16.16	19.42	21.68	24.48	26.70	28.55	29.58	30.84	N/A
Engine Friction Reduction IV	0.00	0.00	0.05	0.19	0.53	1.15	2.16	3.48	5.03	6.73	8.55	10.44	N/A
Stoichiometric GDI/4-Cylinder	1.04	1.44	1.82	2.20	2.57	2.83	2.76	2.61	2.45	2.43	2.28	2.06	N/A
Stoichiometric GDI/6-Cylinder	0.67	0.97	1.29	1.71	2.10	2.50	2.84	3.07	3.28	3.48	3.54	3.88	N/A
Lean Burn GDI	0.90	1.33	1.78	2.28	2.79	3.31	3.77	4.10	4.40	4.67	4.52	4.56	N/A
5W-30 Engine Oil	47.59	46.11	44.60	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	0.1%
5W-20 Engine Oil	52.41	53.89	55.40	56.57	56.57	56.57	56.57	56.57	56.57	56.57	56.57	56.57	N/A
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	N/A
Electric Power Steering	12.64	13.57	14.16	14.78	15.63	16.45	16.94	17.20	17.40	17.52	17.57	17.74	N/A
Improved Alternator	5.06	5.52	5.98	6.18	6.40	6.57	6.59	6.59	6.59	6.59	6.59	6.59	N/A
Improved Oil/Water Pump	57.38	58.23	58.22	58.22	58.22	58.22	58.22	58.23	58.23	58.22	58.22	58.22	18.7%
Electric Oil/Water Pump	1.70	2.18	2.70	3.24	3.77	4.31	4.83	5.35	5.65	5.94	6.17	6.27	N/A
Tires II	58.72	54.81	50.88	48.89	46.11	43.10	40.55	37.64	34.50	31.03	27.90	25.87	-2.8%
Tires III	41.28	45.13	48.88	50.36	52.17	53.47	53.62	53.62	53.62	53.62	53.59	53.46	N/A
Tires IV	0.00	0.07	0.24	0.75	1.72	3.43	5.83	8.74	11.88	15.35	18.50	20.67	N/A
Front Wheel Drive	16.02	16.03	16.05	16.02	16.01	16.02	16.02	16.03	16.05	16.04	16.09	16.05	0.2%
Four Wheel Drive Improvements	9.01	9.41	9.45	9.45	9.46	9.45	9.45	9.45	9.45	9.45	9.45	9.45	19.2%
42V-Launch Assist and Regen	1.68	1.86	2.02	2.18	2.24	2.33	2.39	2.39	2.40	2.40	2.40	2.40	N/A
42V-Engine Off at Idle	1.86	2.02	2.18	2.24	2.33	2.39	2.39	2.40	2.40	2.40	2.40	2.40	N/A
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	N/A
Increased Size/Weight	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	10.5%
Variable Compression Ratio	0.00	0.02	0.07	0.15	0.26	0.42	0.58	0.75	0.96	1.15	1.33	1.49	N/A
Light-Duty Vehicle Total													
Unit Body Construction	61.58	61.35	61.13	60.89	60.63	60.42	60.18	59.97	59.76	59.52	59.29	58.99	0.2%
Material Substitution II	60.16	60.15	60.14	60.13	60.11	60.07	60.06	60.03	60.03	60.04	60.05	60.07	1.6%
Material Substitution III	11.93	12.10	12.25	12.34	12.36	12.37	12.39	12.41	12.42	12.44	12.46	12.48	19.9%
Material Substitution IV	1.48	1.84	2.19	2.54	2.87	3.20	3.47	3.74	3.98	4.17	4.27	4.39	N/A
Material Substitution V	0.01	0.05	0.11	0.20	0.31	0.45	0.62	0.80	1.01	1.24	1.44	1.65	N/A
Drag Reduction II	32.89	30.49	28.69	27.24	26.13	24.98	23.92	23.13	22.41	21.69	21.16	20.57	-3.7%
Drag Reduction III	43.76	44.48	44.52	44.38	44.18	43.93	43.58	43.43	43.29	43.13	42.92	42.72	17.6%
Drag Reduction IV	20.15	21.65	23.06	24.21	24.92	25.56	26.18	26.27	26.33	26.39	26.44	26.52	32.1%
Drag Reduction V	0.80	1.20	1.70	2.30	3.05	3.91	4.80	5.72	6.62	7.53	8.26	9.04	N/A
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	N/A
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	N/A
Advanced Low Loss Torque Converter	62.51	66.02	69.76	71.49	72.99	74.11	74.22	74.27	74.32	74.36	74.41	74.48	11.0%
Early Torque Converter Lockup	45.50	49.59	52.57	55.57	57.08	58.40	59.50	59.57	59.63	59.68	59.73	59.81	32.4%
Aggressive Shift Logic	11.90	12.97	13.78	14.55	14.83	15.11	15.38	15.42	15.44	15.47	15.50	15.53	10.2%
4-Speed Automatic	68.95	68.11	67.24	66.61	66.04	65.35	64.74	64.33	64.26	63.89	63.78	63.79	-0.8%
5-Speed Automatic	9.77	9.83	9.85	9.87	9.87	9.87	9.87	9.87	9.88	9.88	9.88	9.89	1.4%
6-Speed Automatic	1.69	2.00	2.25	2.49	2.69	2.97	3.18	3.35	3.43	3.70	3.79	3.82	N/A
6-Speed Manual	4.47	4.50	4.52	4.54	4.54	4.54	4.55	4.55	4.56	4.56	4.56	4.57	8.7%
CVT	2.62	2.78	2.93	3.05	3.13	3.22	3.30	3.37	3.41	3.55	3.61	3.64	17.5%
Automated Manual Trans	5.38	5.89	6.40	6.74	7.07	7.42	7.78	7.98	7.96	7.94	7.93	7.91	N/A
Roller Cam	98.45	98.45	98.46	98.47	98.47	98.48	98.49	98.50	98.50	98.51	98.51	98.52	0.4%
OHC/AdvOHV-4 Cylinder	1.62	1.61	1.60	1.59	1.58	1.57	1.56	1.55	1.54	1.53	1.52	1.51	-3.2%
OHC/AdvOHV-6 Cylinder	20.90	21.03	21.15	21.26	21.39	21.51	21.63	21.75	21.87	22.00	22.15	22.30	0.0%
OHC/AdvOHV-8 Cylinder	13.79	13.86	13.93	14.01	14.10	14.17	14.25	14.32	14.40	14.48	14.56	14.66	0.2%
4-Valve/4-Cylinder	27.06	26.90	26.76	26.60	26.43	26.29	26.13	25.99	25.84	25.67	25.51	25.31	-0.3%
4-Valve/6-Cylinder	21.48	21.47	21.45	21.44	21.42	21.40	21.39	21.37	21.35	21.34	21.32	21.30	1.3%
4-Valve/8-Cylinder	9.91	9.92	9.92	9.93	9.93	9.93	9.94	9.94	9.94	9.95	9.95	9.96	2.0%
5-Valve/6-Cylinder	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	-0.9%

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
VVT-4 Cylinder	26.90	26.64	26.33	25.98	25.58	25.19	24.76	24.32	23.89	23.45	22.92	22.42	2.7%
VVT-6 Cylinder	14.22	14.30	14.37	14.42	14.43	14.41	14.41	14.40	14.39	14.38	14.38	14.36	9.0%
VVT-8 Cylinder	8.40	8.40	8.40	8.39	8.35	8.30	8.24	8.20	8.13	8.09	8.05	8.06	13.2%
VVL-4 Cylinder	7.68	7.52	7.35	7.15	6.87	6.64	6.54	6.34	6.18	6.02	5.87	5.76	2.4%
VVL-6 Cylinder	5.77	5.78	5.77	5.74	5.68	5.60	5.55	5.55	5.56	5.53	5.52	5.52	12.6%
VVL-8 Cylinder	1.99	2.11	2.26	2.41	2.47	2.54	2.61	2.61	2.61	2.62	2.62	2.63	6.3%
Camless Valve Actuation-4cyl	0.51	0.69	0.95	1.22	1.53	1.82	2.14	2.48	2.81	3.09	3.53	3.85	N/A
Camless Valve Actuation-6cyl	0.73	1.02	1.34	1.68	2.01	2.42	2.79	3.16	3.47	3.89	4.20	4.47	N/A
Camless Valve Actuation-8cyl	0.71	0.87	1.03	1.19	1.39	1.58	1.78	1.95	2.16	2.33	2.48	2.57	N/A
Cylinder Deactivation	5.93	6.56	6.94	7.29	7.53	7.62	7.71	7.73	7.75	7.78	7.80	7.83	N/A
Turbocharging/Supercharging	2.19	2.23	2.25	2.27	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	14.1%
Engine Friction Reduction I	42.76	40.00	37.51	34.79	31.86	28.96	26.44	23.84	21.88	20.66	19.61	18.41	-5.3%
Engine Friction Reduction II	52.92	53.64	53.76	53.84	53.80	53.72	53.67	53.19	52.50	51.14	50.00	48.84	6.2%
Engine Friction Reduction III	4.32	6.36	8.69	11.19	13.82	16.25	17.99	20.01	21.44	22.67	23.41	24.26	N/A
Engine Friction Reduction IV	0.00	0.00	0.04	0.18	0.52	1.06	1.90	2.96	4.19	5.53	6.97	8.49	N/A
Stoichiometric GDI/4-Cylinder	1.67	2.08	2.45	2.82	3.15	3.42	3.45	3.61	3.61	3.62	3.54	3.42	N/A
Stoichiometric GDI/6-Cylinder	1.25	1.56	1.86	2.21	2.52	2.83	3.07	3.34	3.51	3.64	3.68	3.89	N/A
Lean Burn GDI	1.74	2.17	2.58	3.01	3.41	3.82	4.13	4.40	4.61	4.78	4.69	4.71	N/A
5W-30 Engine Oil	44.54	43.74	42.91	42.27	42.27	42.27	42.28	42.29	42.30	42.31	42.32	42.34	0.1%
5W-20 Engine Oil	41.24	42.70	44.34	45.46	45.97	46.41	46.62	46.70	46.78	46.88	46.98	47.09	N/A
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	N/A
Electric Power Steering	11.86	13.17	14.21	15.24	16.17	16.94	17.38	17.60	17.77	17.89	17.96	18.14	N/A
Improved Alternator	4.18	4.60	5.03	5.26	5.51	5.67	5.75	5.80	5.81	5.82	5.83	5.84	N/A
Improved Oil/Water Pump	44.25	45.03	45.35	45.60	45.72	45.82	45.94	46.04	46.15	46.27	46.39	46.53	18.7%
Electric Oil/Water Pump	1.81	2.26	2.74	3.20	3.65	4.09	4.52	4.89	5.13	5.36	5.52	5.60	N/A
Tires II	61.65	59.34	56.68	55.15	53.10	50.73	48.53	46.15	43.74	41.05	38.50	36.59	-1.7%
Tires III	31.88	34.86	38.08	39.89	41.57	42.71	43.31	43.74	43.89	43.99	44.07	44.11	N/A
Tires IV	0.00	0.06	0.24	0.73	1.60	3.04	5.00	7.33	9.87	12.67	15.35	17.42	N/A
Front Wheel Drive	46.35	46.08	45.83	45.57	45.28	45.03	44.77	44.53	44.29	44.00	43.74	43.40	-0.6%
Four Wheel Drive Improvements	5.78	6.07	6.13	6.16	6.19	6.22	6.25	6.28	6.30	6.33	6.36	6.40	17.5%
42V-Launch Assist and Regen	1.52	1.71	1.87	2.03	2.12	2.22	2.28	2.31	2.33	2.33	2.34	2.34	N/A
42V-Engine Off at Idle	1.71	1.87	2.03	2.12	2.22	2.28	2.31	2.33	2.33	2.34	2.34	2.34	N/A
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	N/A
Increased Size/Weight	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	10.5%
Variable Compression Ratio	0.00	0.02	0.08	0.19	0.32	0.50	0.69	0.88	1.11	1.32	1.52	1.69	N/A

Table 56. Technology Market Penetration in Light-Duty Vehicles  
(Percentage)

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Gasoline</b>													
Mini-compact Cars	24.55	24.95	25.11	25.18	25.20	25.92	25.91	25.78	26.07	26.55	26.71	26.99	27.15
Subcompact Cars	31.03	30.99	31.04	30.95	30.80	30.86	30.73	30.48	30.66	31.00	31.16	31.51	31.77
Compact Cars	30.25	30.24	30.31	30.29	30.15	30.42	30.33	30.11	30.30	30.62	30.78	31.12	31.38
Midsize Cars	26.72	26.73	26.81	26.78	26.69	26.94	26.87	26.67	26.83	27.11	27.23	27.51	27.67
Large Cars	25.23	25.23	25.24	25.16	25.02	25.06	24.94	24.75	24.92	25.22	25.35	25.61	25.82
Two Seater Cars	24.93	25.08	25.11	25.11	25.01	25.12	25.06	24.90	25.11	25.42	25.59	25.90	26.11
Small Pickup	22.29	22.33	22.39	22.39	22.53	23.99	24.99	24.70	24.72	24.80	24.87	25.06	25.23
Large Pickup	18.90	18.89	18.92	18.87	18.98	19.64	20.20	20.00	20.06	20.21	20.31	20.52	20.64
Small Van	23.20	23.19	23.22	23.14	23.20	24.43	25.09	24.80	24.81	24.87	24.92	25.06	25.17
Large Van	18.11	18.08	18.11	18.10	18.23	18.84	19.53	19.34	19.41	19.60	19.69	19.91	20.03
Small Utility	21.18	21.23	21.30	21.30	21.45	22.94	23.98	23.71	23.75	23.85	23.93	24.14	24.29
Large Utility	17.54	17.53	17.56	17.52	17.63	18.22	18.87	18.70	18.78	18.96	19.07	19.28	19.41
<b>Turbo Direct Injection Diesel</b>													
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	41.29	41.17	41.05	40.96
Compact Cars	40.73	40.51	40.56	40.35	40.09	39.88	39.60	39.23	39.30	39.48	39.53	39.69	39.83
Midsize Cars	0.00	0.00	0.00	35.88	35.58	35.30	35.03	34.68	34.73	34.84	34.88	34.99	35.06
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	33.41	33.00	32.97	32.99	33.00	33.10	33.19
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	32.68	32.29	32.24	32.18	32.12	32.10	32.11
Large Pickup	25.45	25.37	25.38	25.23	25.23	26.07	26.47	26.14	26.12	26.13	26.14	26.20	26.24
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.34	33.22	33.11	33.03
Large Van	24.39	24.32	24.33	24.23	24.26	24.96	25.58	25.26	25.26	25.29	25.31	25.43	25.48
Small Utility	0.00	0.00	0.00	28.51	28.45	29.55	30.58	30.18	30.13	30.12	30.12	30.15	30.18
Large Utility	23.62	23.56	23.57	23.43	23.46	24.09	24.69	24.38	24.38	24.43	24.47	24.60	24.66
<b>Methanol</b>													
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
<b>Methanol Flex</b>													
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	27.25	27.25	27.32	27.28	27.17	27.42	27.34	27.14	27.31	27.60	27.72	27.99	28.16
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 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Ethanol</b>													
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	27.78	27.77	27.84	27.79	27.67	27.92	27.82	27.61	27.79	28.09	28.20	28.47	28.65
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
<b>Ethanol Flex</b>													
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	30.93	30.86	30.88	30.97
Compact Cars	30.55	30.54	30.60	30.58	30.43	30.67	30.58	30.34	30.53	30.86	31.02	31.36	31.63
Midsize Cars	26.98	26.99	27.06	27.02	26.92	27.18	27.10	26.90	27.07	27.35	27.47	27.75	27.93
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	25.03	24.74	24.80	24.98	25.13	25.42	25.63
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	22.51	22.55	22.61	22.60	22.74	24.21	25.28	24.99	25.02	25.10	25.17	25.36	25.54
Large Pickup	19.09	19.08	19.11	19.06	19.18	19.85	20.50	20.29	20.35	20.51	20.60	20.81	20.96
Small Van	23.43	23.41	23.45	23.36	23.42	24.67	25.38	25.09	25.11	25.18	25.22	25.37	25.48
Large Van	0.00	0.00	0.00	0.00	18.27	18.57	19.10	18.91	18.99	19.25	19.38	19.71	19.92
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	23.59	23.46	23.65	23.89	24.09	24.37	24.65
Large Utility	17.71	17.70	17.73	17.71	17.81	18.41	19.13	18.95	19.04	19.22	19.33	19.56	19.68
<b>Compressed Natural Gas (CNG)</b>													
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	32.66	32.60	32.69	32.69	32.55	32.63	32.52	32.28	32.45	32.74	32.89	33.15	33.42
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	27.24	27.20	27.21	27.10	26.93	26.91	26.74	26.51	26.64	26.88	26.97	27.21	27.39
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	20.40	20.37	20.39	20.29	20.37	21.04	21.48	21.24	21.26	21.34	21.39	21.54	21.63
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	19.54	19.51	19.53	19.50	19.60	20.17	20.80	20.57	20.60	20.74	20.79	20.94	21.04
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
<b>CNG Bi-Fuel</b>													
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	30.25	30.22	30.31	30.32	30.22	30.39	30.33	30.12	30.30	30.60	30.74	31.05	31.27
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	24.96	24.73	24.52	24.32	24.48	24.74	24.88	25.17	25.33
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	18.90	18.88	18.91	18.82	18.93	19.51	19.93	19.71	19.74	19.84	19.89	20.03	20.09
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	18.11	18.08	18.11	18.09	18.20	18.73	19.32	19.12	19.16	19.30	19.35	19.51	19.58
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 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Liquefied Petroleum Gas (LPG)</b>													
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	19.65	19.64	19.66	19.60	19.69	20.39	20.96	20.74	20.79	20.93	21.02	21.22	21.36
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	18.83	18.80	18.82	18.80	18.92	19.54	20.25	20.05	20.11	20.29	20.38	20.58	20.70
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
<b>LPG Bi-Fuel</b>													
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	30.10	29.92	29.75	29.57	29.78	30.13	30.31	30.65	30.89
Midsize Cars	0.00	0.00	0.00	0.00	26.61	26.49	26.38	26.21	26.37	26.68	26.81	27.08	27.24
Large Cars	0.00	0.00	0.00	0.00	24.96	24.74	24.54	24.34	24.52	24.80	24.97	25.28	25.47
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	18.90	18.89	18.91	18.84	18.95	19.61	20.16	19.94	19.98	20.12	20.20	20.39	20.49
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	18.11	18.08	18.11	18.11	18.22	18.81	19.50	19.30	19.36	19.53	19.61	19.81	19.92
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
<b>Electric</b>													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	43.95	43.37	43.40	43.48	43.46	43.48	43.45
Subcompact Cars	34.46	34.83	35.60	39.18	43.12	48.02	54.32	53.55	53.53	53.56	53.53	53.54	53.54
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	31.81	32.21	32.92	36.25	39.89	44.43	50.28	49.58	49.57	49.61	49.58	49.59	49.56
Small Pickup	26.27	26.53	27.09	29.80	33.13	37.22	42.42	41.80	41.72	41.63	41.55	41.47	41.40
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	20.14	20.34	20.77	22.85	25.42	28.21	32.19	31.73	31.67	31.59	31.53	31.45	31.41
Small Utility	24.76	25.04	25.58	28.15	31.31	35.97	41.31	40.71	40.63	40.55	40.47	40.39	40.31
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
<b>Diesel-Electric Hybrid</b>													
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	48.24	48.06	47.86	47.70
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.35	43.16
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 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Gasoline-Electric Hybrid</b>													
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	44.82	44.65	44.48
Compact Cars	43.81	43.62	43.68	43.56	43.24	42.91	42.55	42.11	42.13	42.16	42.14	42.17	42.17
Midsize Cars	0.00	0.00	0.00	38.63	38.33	37.96	37.58	37.17	37.16	37.18	37.18	37.22	37.24
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.80	35.70	35.63	35.57	35.53
Two Seater Cars	36.07	36.07	36.07	36.02	35.74	35.47	35.16	34.81	34.85	34.97	35.01	35.12	35.19
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	33.45	33.95	34.48	34.01	33.90	33.78	33.69	33.61	33.54
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	30.58	30.48	31.50	32.32	31.90	31.82	31.75	31.71	31.69	31.67
Large Utility	0.00	0.00	0.00	0.00	25.32	25.41	25.75	25.40	25.33	25.32	25.30	25.38	25.45
<b>Fuel Cell Methanol</b>													
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
<b>Fuel Cell Hydrogen</b>													
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	62.21	61.41	60.58	59.72	59.70	59.73	59.70	59.71	59.71
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	50.17
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	45.16	46.00	46.07	45.40	45.31	45.22	45.13	45.04	44.95
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
<b>Fuel Cell Gasoline</b>													
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	38.46	38.43	38.42	38.40	38.39	38.37
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	35.66	35.60
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	38.49	38.42
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 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2022-2025
<b>Gasoline</b>													
Mini-compact Cars	27.30	27.41	27.51	27.61	27.67	27.74	27.79	27.87	27.94	28.02	28.09	28.15	0.5%
Subcompact Cars	31.94	32.07	32.22	32.35	32.44	32.54	32.63	32.75	32.85	32.94	33.02	33.08	0.3%
Compact Cars	31.52	31.63	31.76	31.87	31.95	32.03	32.10	32.21	32.29	32.36	32.43	32.48	0.3%
Midsize Cars	27.87	28.00	28.14	28.26	28.36	28.45	28.51	28.59	28.66	28.73	28.78	28.83	0.3%
Large Cars	26.03	26.17	26.32	26.46	26.57	26.67	26.76	26.87	26.96	27.04	27.10	27.16	0.3%
Two Seater Cars	26.28	26.43	26.58	26.70	26.79	26.87	26.95	27.04	27.12	27.21	27.29	27.36	0.4%
Small Pickup	25.44	25.65	25.82	25.95	26.08	26.23	26.36	26.52	26.64	26.77	26.87	26.97	0.8%
Large Pickup	20.80	20.96	21.11	21.23	21.34	21.46	21.54	21.65	21.77	21.89	21.99	22.07	0.7%
Small Van	25.30	25.42	25.53	25.60	25.68	25.78	25.87	25.99	26.11	26.23	26.32	26.43	0.6%
Large Van	20.19	20.37	20.53	20.66	20.77	20.87	20.98	21.13	21.27	21.42	21.55	21.66	0.8%
Small Utility	24.45	24.56	24.69	24.81	24.93	25.05	25.16	25.30	25.42	25.55	25.66	25.78	0.8%
Large Utility	19.58	19.75	19.87	19.98	20.08	20.18	20.28	20.38	20.49	20.61	20.69	20.78	0.7%
<b>Turbo Direct Injection Diesel</b>													
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	N/A
Subcompact Cars	40.92	40.92	40.97	41.04	41.08	41.16	41.24	41.32	41.40	41.45	41.48	41.50	N/A
Compact Cars	39.99	40.06	40.08	40.09	40.09	40.09	40.08	40.11	40.12	40.13	40.13	40.12	0.0%
Midsize Cars	35.12	35.16	35.21	35.23	35.25	35.26	35.25	35.26	35.28	35.29	35.29	35.29	N/A
Large Cars	33.32	33.43	33.55	33.66	33.74	33.82	33.86	33.91	33.95	33.98	34.00	34.02	N/A
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	N/A
Small Pickup	32.17	32.27	32.40	32.50	32.55	32.61	32.67	32.76	32.84	32.89	32.92	32.95	N/A
Large Pickup	26.30	26.36	26.43	26.47	26.48	26.50	26.52	26.56	26.60	26.65	26.68	26.71	0.2%
Small Van	32.99	32.98	32.99	33.02	33.03	33.06	33.11	33.18	33.25	33.32	33.37	33.42	N/A
Large Van	25.57	25.65	25.73	25.75	25.78	25.82	25.86	25.93	26.00	26.05	26.11	26.17	0.3%
Small Utility	30.22	30.27	30.33	30.38	30.42	30.47	30.50	30.57	30.64	30.71	30.77	30.84	N/A
Large Utility	24.75	24.83	24.88	24.91	24.95	25.00	25.05	25.12	25.17	25.24	25.30	25.37	0.3%
<b>Methanol</b>													
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Methanol Flex</b>													
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	N/A
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	N/A
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	N/A
Midsize Cars	28.36	28.50	28.64	28.77	28.87	28.98	29.05	29.14	29.21	29.28	29.34	29.39	0.3%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A

Table 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Ethanol</b>													
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	N/A
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	N/A
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	N/A
Midsize Cars	28.84	29.00	29.14	29.27	29.37	29.47	29.56	29.66	29.73	29.81	29.87	29.93	0.3%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Ethanol Flex</b>													
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	N/A
Subcompact Cars	31.17	31.37	31.63	31.90	32.19	32.44	32.68	32.88	33.07	33.21	33.34	33.45	N/A
Compact Cars	31.78	31.91	32.03	32.15	32.23	32.31	32.39	32.50	32.59	32.66	32.74	32.79	0.3%
Midsize Cars	28.13	28.26	28.40	28.53	28.63	28.73	28.80	28.88	28.95	29.02	29.08	29.13	0.3%
Large Cars	25.86	26.07	26.25	26.44	26.61	26.78	26.92	27.08	27.19	27.29	27.36	27.43	N/A
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	N/A
Small Pickup	25.77	25.99	26.17	26.30	26.45	26.60	26.74	26.89	27.02	27.14	27.24	27.34	0.8%
Large Pickup	21.10	21.26	21.41	21.53	21.63	21.75	21.83	21.94	22.07	22.19	22.29	22.37	0.7%
Small Van	25.61	25.74	25.87	25.94	26.03	26.13	26.23	26.36	26.49	26.62	26.72	26.83	0.6%
Large Van	20.15	20.39	20.58	20.73	20.86	20.99	21.08	21.22	21.36	21.50	21.63	21.74	N/A
Small Utility	24.93	25.23	25.49	25.73	25.93	26.09	26.23	26.39	26.55	26.71	26.84	26.99	N/A
Large Utility	19.85	20.01	20.15	20.25	20.36	20.45	20.55	20.66	20.77	20.89	20.96	21.05	0.8%
<b>Compressed Natural Gas (CNG)</b>													
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	N/A
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	N/A
Compact Cars	33.57	33.66	33.75	33.83	33.89	33.95	33.99	34.07	34.12	34.16	34.19	34.21	0.2%
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	N/A
Large Cars	27.61	27.71	27.84	27.95	28.03	28.11	28.18	28.27	28.34	28.40	28.43	28.46	0.2%
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	N/A
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	N/A
Large Pickup	21.71	21.82	21.92	22.00	22.07	22.15	22.21	22.29	22.38	22.48	22.55	22.64	0.5%
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	N/A
Large Van	21.13	21.25	21.37	21.46	21.55	21.65	21.71	21.81	21.93	22.04	22.14	22.22	0.6%
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	N/A
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	N/A
<b>CNG Bi-Fuel</b>													
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	N/A
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	N/A
Compact Cars	31.37	31.44	31.53	31.61	31.65	31.69	31.72	31.80	31.84	31.87	31.90	31.91	0.2%
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	N/A
Large Cars	25.51	25.66	25.84	25.98	26.07	26.17	26.27	26.34	26.41	26.47	26.51	26.54	N/A
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	N/A
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	N/A
Large Pickup	20.19	20.30	20.40	20.47	20.52	20.57	20.63	20.71	20.78	20.86	20.90	20.95	0.5%
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	N/A
Large Van	19.69	19.81	19.91	19.98	20.05	20.12	20.20	20.29	20.39	20.50	20.57	20.66	0.6%
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	N/A
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	N/A

Table 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2022-2025
<b>Liquefied Petroleum Gas (LPG)</b>													
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Large Pickup	21.49	21.65	21.79	21.90	22.01	22.11	22.19	22.30	22.41	22.54	22.63	22.74	0.6%
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	N/A
Large Van	20.85	21.01	21.17	21.30	21.42	21.55	21.63	21.76	21.90	22.04	22.17	22.26	0.7%
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	N/A
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	N/A
<b>LPG Bi-Fuel</b>													
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	N/A
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	N/A
Compact Cars	31.08	31.24	31.39	31.52	31.61	31.70	31.78	31.88	31.96	32.02	32.07	32.12	N/A
Midsize Cars	27.43	27.59	27.75	27.91	28.02	28.11	28.18	28.26	28.31	28.37	28.42	28.45	N/A
Large Cars	25.68	25.86	26.06	26.22	26.33	26.46	26.57	26.68	26.76	26.83	26.88	26.93	N/A
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	N/A
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	N/A
Large Pickup	20.63	20.78	20.91	21.00	21.09	21.18	21.25	21.35	21.45	21.55	21.66	21.73	0.6%
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	N/A
Large Van	20.07	20.23	20.37	20.47	20.57	20.65	20.74	20.86	20.98	21.12	21.23	21.33	0.7%
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	N/A
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	N/A
<b>Electric</b>													
Mini-compact Cars	43.42	43.40	43.37	43.35	43.31	43.28	43.25	43.28	43.31	43.35	43.37	43.39	N/A
Subcompact Cars	53.52	53.49	53.47	53.45	53.41	53.38	53.35	53.39	53.42	53.46	53.48	53.52	1.9%
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	N/A
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	N/A
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	N/A
Two Seater Cars	49.54	49.51	49.49	49.47	49.44	49.41	49.37	49.41	49.44	49.47	49.50	49.53	1.9%
Small Pickup	41.33	41.26	41.20	41.14	41.08	41.02	40.96	40.98	40.99	41.00	41.00	41.01	1.9%
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	N/A
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	N/A
Large Van	31.35	31.30	31.25	31.19	31.14	31.09	31.04	31.06	31.08	31.10	31.12	31.13	1.9%
Small Utility	40.24	40.17	40.11	40.04	39.97	39.91	39.85	39.88	39.90	39.93	39.95	39.98	2.1%
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	N/A
<b>Diesel-Electric Hybrid</b>													
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	N/A
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	N/A
Compact Cars	47.60	47.51	47.46	47.43	47.41	47.41	47.41	47.44	47.48	47.50	47.50	47.50	N/A
Midsize Cars	43.02	42.89	42.80	42.73	42.68	42.65	42.63	42.66	42.68	42.70	42.71	42.72	N/A
Large Cars	41.21	41.10	41.01	40.94	40.88	40.83	40.80	40.82	40.85	40.88	40.91	40.94	N/A
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	N/A
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	N/A
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	N/A
Small Van	0.00	40.29	40.15	40.04	39.94	39.87	39.81	39.83	39.86	39.89	39.93	39.98	N/A
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	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	39.91	39.83	39.77	39.73	39.72	39.73	N/A
Large Utility	0.00	0.00	0.00	31.67	31.57	31.49	31.44	31.44	31.46	31.49	31.53	31.59	N/A

Table 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Gasoline-Electric Hybrid</b>													
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	N/A
Subcompact Cars	44.37	44.28	44.24	44.21	44.21	44.22	44.25	44.32	44.39	44.46	44.50	44.54	N/A
Compact Cars	42.18	42.18	42.19	42.20	42.20	42.21	42.20	42.23	42.25	42.27	42.27	42.27	-0.1%
Midsize Cars	37.28	37.29	37.32	37.34	37.35	37.37	37.37	37.40	37.42	37.43	37.44	37.45	N/A
Large Cars	35.52	35.54	35.59	35.67	35.76	35.86	35.96	36.05	36.12	36.17	36.20	36.23	N/A
Two Seater Cars	35.27	35.32	35.36	35.40	35.43	35.45	35.47	35.52	35.57	35.61	35.65	35.68	0.0%
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	N/A
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	N/A
Small Van	33.52	33.50	33.49	33.48	33.46	33.46	33.46	33.50	33.55	33.60	33.64	33.68	N/A
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	N/A
Small Utility	31.68	31.67	31.68	31.70	31.71	31.74	31.78	31.85	31.92	32.00	32.06	32.13	N/A
Large Utility	25.50	25.56	25.61	25.62	25.64	25.67	25.72	25.79	25.87	25.93	26.00	26.07	N/A
<b>Fuel Cell Methanol</b>													
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Fuel Cell Hydrogen</b>													
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	N/A
Subcompact Cars	59.69	59.66	59.63	59.60	59.57	59.53	59.50	59.54	59.58	59.61	59.65	59.68	N/A
Compact Cars	0.00	0.00	0.00	0.00	58.53	58.50	58.47	58.51	58.55	58.59	58.62	58.65	N/A
Midsize Cars	50.15	50.12	50.09	50.06	50.03	50.00	49.97	50.00	50.03	50.06	50.09	50.11	N/A
Large Cars	0.00	0.00	44.81	44.78	44.75	44.73	44.70	44.72	44.75	44.77	44.79	44.82	N/A
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	N/A
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	N/A
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	N/A
Small Van	41.58	41.52	41.45	41.39	41.33	41.27	41.21	41.24	41.27	41.30	41.33	41.35	N/A
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	N/A
Small Utility	44.88	44.80	44.73	44.65	44.58	44.51	44.45	44.47	44.50	44.53	44.55	44.58	N/A
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	N/A
<b>Fuel Cell Gasoline</b>													
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	N/A
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	N/A
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	N/A
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	N/A
Large Cars	38.35	38.32	38.29	38.27	38.25	38.23	38.20	38.22	38.24	38.26	38.28	38.30	N/A
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	N/A
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	N/A
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	N/A
Small Van	35.54	35.48	35.42	35.37	35.32	35.27	35.22	35.24	35.27	35.29	35.32	35.34	N/A
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	N/A
Small Utility	38.35	38.29	38.22	38.16	38.10	38.04	37.98	38.00	38.03	38.05	38.08	38.10	N/A
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	N/A

Table 57. New Light-Duty Vehicle Fuel Economy  
(Miles per Gallon)

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Gasoline</b>													
Mini-compact Cars	54.0	54.1	54.1	54.2	54.4	54.7	54.8	55.0	55.0	55.1	55.1	55.2	55.2
Subcompact Cars	18.6	18.7	18.7	18.8	18.9	19.1	19.3	19.4	19.4	19.5	19.6	19.6	19.7
Compact Cars	18.9	18.9	18.9	19.0	19.2	19.4	19.6	19.7	19.8	19.8	19.9	20.0	20.0
Midsize Cars	25.3	25.4	25.4	25.5	25.6	25.9	26.0	26.2	26.2	26.3	26.4	26.5	26.5
Large Cars	29.9	29.9	29.9	30.0	30.1	30.4	30.5	30.6	30.7	30.7	30.8	30.8	30.9
Two Seater Cars	43.0	43.1	43.1	43.1	43.3	43.5	43.6	43.8	43.8	43.9	43.9	44.0	44.0
Small Pickup	17.7	17.7	17.8	17.8	17.9	18.6	18.9	19.1	19.1	19.1	19.1	19.2	19.2
Large Pickup	24.6	24.7	24.7	24.8	24.8	25.5	25.8	25.9	25.9	25.9	26.0	26.0	26.0
Small Van	26.0	26.1	26.1	26.2	26.2	26.9	27.2	27.3	27.3	27.3	27.3	27.4	27.4
Large Van	22.3	22.4	22.4	22.4	22.5	23.1	23.4	23.5	23.6	23.6	23.6	23.7	23.7
Small Utility	27.0	27.0	27.1	27.1	27.2	27.9	28.2	28.3	28.3	28.3	28.4	28.4	28.4
Large Utility	34.6	34.6	34.6	34.7	34.7	35.4	35.7	35.8	35.8	35.9	35.9	36.0	36.0
<b>Turbo Direct Injection Diesel</b>													
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	20.5	20.5	20.6	20.6
Compact Cars	20.3	20.4	20.4	20.5	20.6	20.8	21.0	21.1	21.1	21.2	21.2	21.3	21.3
Midsize Cars	0.0	0.0	0.0	27.0	27.2	27.4	27.5	27.6	27.7	27.7	27.8	27.8	27.9
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	32.0	32.1	32.1	32.1	32.2	32.2	32.3
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	20.8	21.0	21.0	21.0	21.1	21.1	21.2
Large Pickup	26.2	26.2	26.2	26.3	26.3	26.9	27.2	27.3	27.3	27.3	27.4	27.4	27.4
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	29.4	29.4	29.4
Large Van	24.2	24.3	24.3	24.4	24.4	25.0	25.3	25.4	25.4	25.4	25.4	25.5	25.5
Small Utility	0.0	0.0	0.0	29.2	29.2	29.8	30.1	30.2	30.3	30.3	30.3	30.4	30.4
Large Utility	36.1	36.2	36.2	36.2	36.2	36.8	37.1	37.2	37.2	37.3	37.3	37.3	37.4
<b>Methanol</b>													
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
<b>Methanol Flex</b>													
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	27.6	27.7	27.7	27.8	28.0	28.2	28.4	28.5	28.6	28.6	28.7	28.8	28.8
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 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Ethanol</b>													
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	27.5	27.5	27.5	27.6	27.8	28.0	28.2	28.3	28.4	28.5	28.5	28.6	28.6
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
<b>Ethanol Flex</b>													
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	19.8	19.8	19.9	19.9
Compact Cars	19.6	19.7	19.7	19.9	20.0	20.2	20.3	20.5	20.5	20.6	20.6	20.7	20.8
Midsize Cars	25.6	25.7	25.7	25.8	26.0	26.2	26.4	26.5	26.6	26.7	26.7	26.8	26.9
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	30.8	30.9	31.0	31.0	31.1	31.1	31.2
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	19.5	19.6	19.7	19.6	19.7	20.4	20.7	20.8	20.8	20.8	20.8	20.9	20.9
Large Pickup	25.7	25.8	25.8	25.8	25.8	26.5	26.7	26.8	26.8	26.9	26.9	26.9	26.9
Small Van	27.1	27.2	27.1	27.2	27.2	27.9	28.1	28.2	28.2	28.3	28.3	28.3	28.3
Large Van	0.0	0.0	0.0	0.0	22.8	23.3	23.6	23.7	23.8	23.8	23.9	23.9	24.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	28.5	28.6	28.6	28.6	28.7	28.7	28.8
Large Utility	35.2	35.3	35.3	35.3	35.4	35.9	36.2	36.3	36.4	36.4	36.4	36.4	36.5
<b>Compressed Natural Gas (CNG)</b>													
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	25.0	25.1	25.1	25.2	25.4	25.6	25.8	25.9	26.0	26.0	26.1	26.2	26.2
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	36.4	36.5	36.5	36.5	36.7	36.9	37.0	37.1	37.2	37.2	37.3	37.3	37.4
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	31.1	31.2	31.2	31.3	31.3	32.0	32.3	32.4	32.4	32.4	32.5	32.5	32.6
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	28.8	28.9	28.9	28.9	29.0	29.6	29.9	30.0	30.1	30.1	30.1	30.2	30.2
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
<b>CNG Bi-Fuel</b>													
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	23.9	24.0	24.0	24.1	24.3	24.5	24.7	24.8	24.9	24.9	25.0	25.1	25.2
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	32.7	32.9	33.0	33.1	33.2	33.3	33.3	33.4	33.5
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	30.2	30.3	30.3	30.4	30.4	31.0	31.3	31.4	31.5	31.5	31.6	31.6	31.7
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	27.9	27.9	27.9	28.0	28.1	28.7	29.0	29.1	29.1	29.2	29.2	29.3	29.3
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 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Liquefied Petroleum Gas (LPG)</b>													
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	30.5	30.5	30.5	30.6	30.6	31.3	31.6	31.7	31.7	31.7	31.8	31.8	31.8
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	28.1	28.2	28.2	28.2	28.3	28.9	29.2	29.4	29.4	29.4	29.4	29.5	29.5
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
<b>LPG Bi-Fuel</b>													
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	20.6	20.8	20.9	21.1	21.1	21.2	21.3	21.4	21.4
Midsize Cars	0.0	0.0	0.0	0.0	27.1	27.3	27.4	27.6	27.7	27.8	27.8	27.9	28.0
Large Cars	0.0	0.0	0.0	0.0	31.6	31.8	31.9	32.0	32.1	32.1	32.2	32.3	32.3
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	29.4	29.4	29.5	29.5	29.6	30.2	30.5	30.6	30.7	30.7	30.7	30.8	30.8
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	27.0	27.1	27.1	27.2	27.2	27.8	28.2	28.3	28.3	28.4	28.4	28.5	28.5
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
<b>Electric</b>													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	68.3	68.0	67.7	67.3	66.9	66.6	66.2
Subcompact Cars	41.8	41.4	41.1	41.0	41.6	42.1	42.7	42.5	42.2	41.9	41.6	41.3	41.0
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	66.9	66.5	66.2	66.1	66.7	67.3	67.9	67.7	67.3	67.0	66.7	66.4	66.1
Small Pickup	43.5	43.1	42.7	42.6	43.2	43.8	44.4	44.2	43.9	43.5	43.2	42.8	42.5
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	51.6	51.0	50.6	50.4	51.2	52.2	53.0	52.7	52.2	51.8	51.3	50.9	50.5
Small Utility	53.5	53.0	52.6	52.5	53.2	53.5	54.1	53.8	53.5	53.1	52.7	52.4	52.0
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
<b>Diesel-Electric Hybrid</b>													
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	22.2	22.2	22.1	22.1
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	29.0
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 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Gasoline-Electric Hybrid</b>													
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	21.4	21.4	21.4
Compact Cars	25.3	24.5	23.3	22.4	22.3	22.4	22.4	22.4	22.3	22.3	22.3	22.2	22.2
Midsize Cars	0.0	0.0	0.0	27.5	27.6	27.7	27.7	27.8	27.7	27.7	27.7	27.7	27.6
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.2	33.1	33.1	33.1
Two Seater Cars	50.5	49.8	49.2	48.5	48.6	48.7	48.7	48.8	48.7	48.7	48.7	48.6	48.6
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	29.4	29.9	30.0	30.0	30.0	29.9	29.9	29.8	29.8
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	29.5	29.4	29.9	30.1	30.1	30.0	30.0	29.9	29.9	29.8
Large Utility	0.0	0.0	0.0	0.0	38.8	39.2	39.3	39.3	39.3	39.2	39.1	39.1	39.0
<b>Fuel Cell Methanol</b>													
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
<b>Fuel Cell Hydrogen</b>													
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	67.8	66.5	65.3	64.1	62.5	61.0	59.5	58.1	56.7
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	69.8
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	91.0	87.5	85.2	83.7	81.6	79.7	77.8	76.0	74.3
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
<b>Fuel Cell Gasoline</b>													
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	111.7	108.1	104.8	101.5	98.4	95.6
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	100.2	97.2
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	96.1	93.4
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 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price													
Cars	17.9	18.0	17.6	18.0	18.0	18.2	18.4	18.5	18.7	18.8	19.0	19.0	19.1
Trucks	19.3	19.4	19.4	19.4	19.5	20.1	20.7	20.8	20.8	21.1	21.1	21.1	21.1
Light Duty Vehicles	18.6	18.7	18.5	18.7	18.8	19.2	19.6	19.7	19.8	20.0	20.1	20.2	20.2

Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Gasoline</b>													
Mini-compact Cars	55.3	55.3	55.4	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	0.1%
Subcompact Cars	19.7	19.8	19.8	19.8	19.9	19.9	19.9	20.0	20.0	20.0	20.0	20.0	0.3%
Compact Cars	20.1	20.1	20.2	20.2	20.2	20.3	20.3	20.3	20.4	20.4	20.4	20.4	0.3%
Midsize Cars	26.6	26.6	26.7	26.7	26.8	26.8	26.8	26.9	26.9	26.9	26.9	26.9	0.3%
Large Cars	30.9	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.3	31.3	31.3	31.3	0.2%
Two Seater Cars	44.0	44.1	44.1	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.3	44.3	0.1%
Small Pickup	19.2	19.3	19.3	19.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.5	0.4%
Large Pickup	26.1	26.1	26.2	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.4	26.4	0.3%
Small Van	27.5	27.5	27.5	27.6	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.8	0.3%
Large Van	23.8	23.8	23.9	23.9	23.9	24.0	24.0	24.0	24.1	24.1	24.1	24.1	0.3%
Small Utility	28.5	28.5	28.6	28.6	28.6	28.7	28.7	28.7	28.8	28.8	28.8	28.8	0.3%
Large Utility	36.0	36.1	36.1	36.2	36.2	36.2	36.3	36.3	36.3	36.4	36.4	36.4	0.2%
<b>Turbo Direct Injection Diesel</b>													
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	N/A
Subcompact Cars	20.6	20.6	20.7	20.7	20.7	20.8	20.8	20.8	20.9	20.9	20.9	20.9	N/A
Compact Cars	21.4	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.6	21.6	21.6	21.6	0.3%
Midsize Cars	27.9	28.0	28.0	28.0	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.2	N/A
Large Cars	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.6	32.6	32.6	N/A
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	N/A
Small Pickup	21.2	21.2	21.2	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	N/A
Large Pickup	27.5	27.5	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.7	27.7	27.7	0.2%
Small Van	29.5	29.5	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.8	29.8	29.8	N/A
Large Van	25.5	25.6	25.6	25.6	25.6	25.6	25.6	25.7	25.7	25.7	25.7	25.7	0.2%
Small Utility	30.4	30.4	30.5	30.5	30.5	30.5	30.6	30.6	30.6	30.6	30.7	30.7	N/A
Large Utility	37.4	37.4	37.5	37.5	37.5	37.6	37.6	37.6	37.6	37.7	37.7	37.7	0.2%
<b>Methanol</b>													
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Methanol Flex</b>													
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	N/A
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	N/A
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	N/A
Midsize Cars	28.9	28.9	29.0	29.0	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	0.2%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A

Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Ethanol</b>													
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	N/A
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	N/A
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	N/A
Midsize Cars	28.7	28.7	28.8	28.8	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	0.2%
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Ethanol Flex</b>													
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	N/A
Subcompact Cars	19.9	20.0	20.0	20.1	20.1	20.2	20.2	20.2	20.2	20.3	20.3	20.3	N/A
Compact Cars	20.8	20.9	20.9	20.9	21.0	21.0	21.0	21.1	21.1	21.1	21.1	21.1	0.3%
Midsize Cars	26.9	27.0	27.0	27.0	27.1	27.1	27.2	27.2	27.2	27.2	27.2	27.3	0.2%
Large Cars	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.6	N/A
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	N/A
Small Pickup	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	0.3%
Large Pickup	26.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.1	27.1	27.0	0.2%
Small Van	28.3	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.5	0.2%
Large Van	24.0	24.1	24.1	24.1	24.2	24.2	24.2	24.3	24.3	24.4	24.4	24.4	N/A
Small Utility	28.8	28.9	28.9	29.0	29.0	29.0	29.1	29.1	29.1	29.2	29.2	29.2	N/A
Large Utility	36.5	36.5	36.5	36.6	36.6	36.6	36.6	36.6	36.6	36.7	36.7	36.7	0.2%
<b>Compressed Natural Gas (CNG)</b>													
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	N/A
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	N/A
Compact Cars	26.3	26.3	26.4	26.4	26.5	26.5	26.5	26.6	26.6	26.6	26.7	26.7	0.3%
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	N/A
Large Cars	37.4	37.5	37.5	37.6	37.6	37.7	37.7	37.7	37.8	37.8	37.8	37.8	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	N/A
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	N/A
Large Pickup	32.6	32.7	32.7	32.8	32.8	32.9	32.9	32.9	33.0	33.0	33.0	33.1	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	N/A
Large Van	30.3	30.3	30.4	30.4	30.5	30.5	30.6	30.6	30.7	30.7	30.8	30.8	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	N/A
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	N/A
<b>CNG Bi-Fuel</b>													
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	N/A
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	N/A
Compact Cars	25.2	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.6	25.6	25.6	25.6	0.3%
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	N/A
Large Cars	33.5	33.6	33.6	33.7	33.7	33.8	33.8	33.9	33.9	33.9	34.0	34.0	N/A
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	N/A
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	N/A
Large Pickup	31.7	31.8	31.9	31.9	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	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	N/A
Large Van	29.4	29.5	29.5	29.6	29.6	29.7	29.7	29.8	29.8	29.9	29.9	30.0	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	N/A
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	N/A

Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Liquefied Petroleum Gas (LPG)</b>													
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Large Pickup	31.9	31.9	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.2	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	N/A
Large Van	29.6	29.6	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.9	29.9	29.9	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	N/A
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	N/A
<b>LPG Bi-Fuel</b>													
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	N/A
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	N/A
Compact Cars	21.5	21.6	21.6	21.7	21.7	21.7	21.8	21.8	21.8	21.9	21.9	21.9	N/A
Midsize Cars	28.1	28.1	28.2	28.2	28.3	28.3	28.4	28.4	28.4	28.4	28.5	28.5	N/A
Large Cars	32.4	32.5	32.5	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8	N/A
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	N/A
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	N/A
Large Pickup	30.9	31.0	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.2	31.3	31.3	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	N/A
Large Van	28.6	28.6	28.7	28.7	28.8	28.8	28.8	28.9	28.9	29.0	29.0	29.1	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	N/A
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	N/A
<b>Electric</b>													
Mini-compact Cars	65.9	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	N/A
Subcompact Cars	40.7	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	-0.1%
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	N/A
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	N/A
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	N/A
Two Seater Cars	65.8	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	-0.1%
Small Pickup	42.2	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	-0.1%
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	N/A
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	N/A
Large Van	50.1	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.8	49.7	49.7	49.7	-0.1%
Small Utility	51.7	51.4	51.4	51.4	48.8	49.0	49.2	49.1	49.2	49.3	48.7	48.8	-0.4%
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	N/A
<b>Diesel-Electric Hybrid</b>													
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	N/A
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	N/A
Compact Cars	22.1	22.0	22.1	22.1	22.1	22.2	22.2	22.2	22.2	22.3	22.3	22.3	N/A
Midsize Cars	29.0	28.9	28.9	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.2	N/A
Large Cars	33.7	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.8	33.8	33.8	33.8	N/A
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	N/A
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	N/A
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	N/A
Small Van	0.0	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.6	30.6	30.6	30.6	N/A
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	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	31.5	31.5	31.6	31.6	31.6	31.6	N/A
Large Utility	0.0	0.0	0.0	40.0	40.1	40.1	40.1	40.1	40.1	40.2	40.2	40.2	N/A

Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Gasoline-Electric Hybrid</b>													
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	N/A
Subcompact Cars	21.3	21.3	21.3	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.5	N/A
Compact Cars	22.1	22.1	22.1	22.1	22.1	22.1	22.2	22.2	22.2	22.2	22.2	22.2	-0.4%
Midsize Cars	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	27.8	27.8	27.8	N/A
Large Cars	33.0	33.0	33.0	33.0	33.1	33.1	33.1	33.2	33.2	33.2	33.2	33.2	N/A
Two Seater Cars	48.6	48.5	48.6	48.6	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	-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	N/A
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	N/A
Small Van	29.7	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.9	29.9	N/A
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	N/A
Small Utility	29.8	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.9	29.9	N/A
Large Utility	38.9	38.9	38.9	38.9	38.9	39.0	39.0	39.0	39.0	39.1	39.1	39.1	N/A
<b>Fuel Cell Methanol</b>													
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Fuel Cell Hydrogen</b>													
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	N/A
Subcompact Cars	55.5	54.2	53.1	52.0	50.9	50.0	49.0	48.1	47.2	46.3	45.5	44.7	N/A
Compact Cars	0.0	0.0	0.0	0.0	52.8	51.8	50.8	49.9	48.9	48.1	47.3	46.4	N/A
Midsize Cars	68.3	66.8	65.4	64.2	62.9	61.7	60.6	59.5	58.4	57.4	56.4	55.5	N/A
Large Cars	0.0	0.0	73.4	72.0	70.5	69.2	68.0	66.7	65.5	64.4	63.4	62.3	N/A
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	N/A
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	N/A
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	N/A
Small Van	75.8	74.1	72.4	70.9	69.4	68.1	66.7	65.3	64.0	62.8	61.7	60.5	N/A
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	N/A
Small Utility	72.7	71.1	69.6	68.2	66.8	65.5	64.2	63.0	61.8	60.7	59.6	58.5	N/A
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	N/A
<b>Fuel Cell Gasoline</b>													
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	N/A
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	N/A
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	N/A
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	N/A
Large Cars	92.7	90.0	87.5	85.1	82.8	80.6	78.5	76.4	74.5	72.5	70.8	69.0	N/A
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	N/A
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	N/A
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	N/A
Small Van	94.3	91.4	88.8	86.1	83.8	81.4	79.1	76.9	74.8	72.6	70.8	68.8	N/A
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	N/A
Small Utility	90.6	87.9	85.5	83.1	80.9	78.7	76.6	74.5	72.6	70.6	68.9	67.1	N/A
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	N/A



Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Average Price													
Cars	19.1	19.2	19.2	19.2	19.3	19.3	19.3	19.3	19.4	19.4	19.4	19.4	0.3%
Trucks	21.2	21.2	21.2	21.2	21.2	21.2	21.3	21.3	21.3	21.4	21.4	21.4	0.4%
Light Duty Vehicles	20.2	20.3	20.3	20.3	20.4	20.4	20.4	20.5	20.5	20.5	20.5	20.6	0.4%

Table 58. New Light-Duty Vehicle Prices  
(Thousand 2002 Dollars)

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 59. New Light-Duty Vehicle Range  
(Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Gasoline</b>													
Mini-compact Cars	405	412	414	415	416	428	428	425	430	438	441	445	448
Subcompact Cars	432	431	432	431	428	429	428	424	427	431	434	438	442
Compact Cars	435	435	436	435	433	437	436	433	436	440	442	447	451
Midsize Cars	454	454	456	455	454	458	457	454	457	462	463	468	471
Large Cars	458	458	458	457	454	455	453	449	452	458	460	465	469
Two Seater Cars	399	402	402	402	400	402	401	399	402	407	410	415	418
Small Pickup	409	410	411	411	414	440	459	453	454	455	457	460	463
Large Pickup	484	483	484	483	486	503	517	512	513	517	520	525	528
Small Van	520	520	520	519	520	547	562	556	556	557	558	562	564
Large Van	588	588	589	588	592	612	635	629	631	637	640	647	651
Small Utility	403	404	405	405	408	437	457	452	453	454	456	460	463
Large Utility	477	476	477	476	479	495	513	508	510	515	518	524	528
<b>Turbo Direct Injection Diesel</b>													
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	582	585	592	597
Compact Cars	587	587	588	588	585	590	589	584	588	594	597	604	609
Midsize Cars	0	0	0	615	613	619	617	613	617	623	626	632	636
Large Cars	0	0	0	0	0	0	611	606	611	618	621	627	633
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	619	612	613	615	616	621	625
Large Pickup	653	653	653	652	655	678	698	691	693	698	701	709	713
Small Van	0	0	0	0	0	0	0	0	0	752	754	758	761
Large Van	794	793	795	794	800	826	857	849	852	860	864	873	879
Small Utility	0	0	0	547	551	590	617	610	611	614	615	621	625
Large Utility	644	643	644	643	647	669	692	686	689	696	700	708	712
<b>Methanol</b>													
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
<b>Methanol Flex</b>													
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	259	259	260	260	259	261	261	259	260	263	264	267	268
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 59. New Light-Duty Vehicle Range (Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Ethanol</b>													
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	345	345	346	346	345	348	347	345	347	351	352	356	358
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
<b>Ethanol Flex</b>													
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	315	316	320	323
Compact Cars	317	317	318	318	316	319	318	316	318	321	323	327	329
Midsize Cars	331	332	333	332	331	335	334	331	333	337	338	342	344
Large Cars	0	0	0	0	0	0	330	328	330	334	336	339	342
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	299	299	300	300	302	321	335	331	331	332	333	336	338
Large Pickup	353	353	353	352	354	367	377	374	375	378	379	383	385
Small Van	380	379	380	379	379	400	410	406	406	407	408	410	412
Large Van	0	0	0	0	432	447	463	459	461	465	467	472	475
Small Utility	0	0	0	0	0	0	334	330	330	332	333	336	338
Large Utility	348	348	348	348	350	362	374	371	373	376	378	383	385
<b>Compressed Natural Gas (CNG)</b>													
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	261	261	261	261	260	262	262	260	261	264	265	268	271
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	275	275	275	274	272	273	272	270	271	275	276	279	281
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	290	290	290	290	291	302	310	307	308	310	312	315	317
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	353	353	353	353	355	367	381	377	379	382	384	388	391
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
<b>CNG Bi-Fuel</b>													
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	217	217	218	218	217	219	218	216	218	220	221	224	226
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	227	227	226	225	226	229	230	232	234
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	242	242	242	241	243	251	258	256	257	259	260	262	264
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	294	294	294	294	296	306	317	314	315	318	320	324	325
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 59. New Light-Duty Vehicle Range (Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Liquefied Petroleum Gas (LPG)</b>													
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	411	411	411	410	413	427	439	435	436	440	442	446	449
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	500	499	500	500	504	520	540	534	536	541	544	550	553
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
<b>LPG Bi-Fuel</b>													
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	347	350	349	346	348	352	354	358	361
Midsize Cars	0	0	0	0	363	367	366	363	365	369	371	375	377
Large Cars	0	0	0	0	363	364	362	359	362	366	368	372	375
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	387	387	387	386	388	402	414	409	411	414	416	420	422
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	471	470	471	471	474	490	508	503	505	510	512	518	521
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
<b>Electric</b>													
Mini-compact Cars	0	0	0	0	0	0	80	80	80	80	80	80	80
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
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	80	80	80	80	80	80	80	80	80	80	80	80	80
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	80
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	80	80	80	80	80	80	80	80	80	80	80	80	80
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
<b>Diesel-Electric Hybrid</b>													
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	572	575	582	586
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	609	612
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 59. New Light-Duty Vehicle Range  
(Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Gasoline-Electric Hybrid</b>													
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	542	548	553
Compact Cars	544	543	545	544	542	546	545	541	544	550	553	559	564
Midsize Cars	0	0	0	569	567	573	571	567	571	577	579	585	589
Large Cars	0	0	0	0	0	0	0	0	565	572	575	581	586
Two Seater Cars	499	502	503	503	501	503	502	498	503	509	512	518	523
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	650	684	703	694	695	697	698	702	705
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	506	510	546	571	565	566	568	570	575	578
Large Utility	0	0	0	0	599	619	641	635	638	644	648	655	660
<b>Fuel Cell Methanol</b>													
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
<b>Fuel Cell Hydrogen</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	428	429	428	424	427	431	434	438	442
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	471
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	408	437	457	452	453	454	456	460	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fuel Cell Gasoline</b>													
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	449	452	458	460	465	469
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	562	564
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	460	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Gasoline</b>													
Mini-compact Cars	450	452	454	456	457	458	459	460	461	462	463	464	0.5%
Subcompact Cars	444	446	448	450	451	453	454	456	457	458	459	460	0.3%
Compact Cars	453	455	456	458	459	460	461	463	464	465	466	467	0.3%
Midsize Cars	474	476	478	481	482	484	485	486	487	488	489	490	0.3%
Large Cars	472	475	478	480	482	484	486	488	489	491	492	493	0.3%
Two Seater Cars	421	423	426	428	429	430	432	433	434	436	437	438	0.4%
Small Pickup	467	471	474	476	479	481	484	487	489	491	493	495	0.8%
Large Pickup	532	536	540	543	546	549	551	554	557	560	563	565	0.7%
Small Van	567	569	572	574	575	578	580	582	585	588	590	592	0.6%
Large Van	656	662	667	671	675	678	682	687	691	696	700	704	0.8%
Small Utility	466	468	470	472	474	477	479	481	484	486	488	490	0.8%
Large Utility	532	537	540	543	546	548	551	554	557	560	562	565	0.7%
<b>Turbo Direct Injection Diesel</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	600	602	605	608	609	611	613	615	617	619	620	621	N/A
Compact Cars	612	614	616	619	620	622	623	625	627	628	629	630	0.3%
Midsize Cars	640	643	646	649	651	653	654	656	658	659	661	662	N/A
Large Cars	638	641	645	648	651	653	656	658	660	662	664	665	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	631	636	640	643	646	650	653	657	660	664	666	668	N/A
Large Pickup	718	724	729	733	737	741	744	748	752	756	760	762	0.7%
Small Van	765	769	772	774	777	780	783	786	790	793	796	799	N/A
Large Van	886	894	901	906	911	916	921	927	933	940	945	950	0.8%
Small Utility	628	631	634	637	640	643	646	650	653	656	659	662	N/A
Large Utility	718	725	729	733	737	740	744	748	752	756	759	763	0.7%
<b>Methanol</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Methanol Flex</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	270	272	273	274	275	276	276	277	278	278	279	279	0.3%
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Ethanol</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	360	362	364	365	366	368	368	369	370	371	372	373	0.3%
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Ethanol Flex</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	324	326	327	329	329	330	331	333	334	334	335	336	N/A
Compact Cars	331	332	333	334	335	336	337	338	339	340	340	341	0.3%
Midsize Cars	346	348	349	351	352	353	354	355	356	356	357	358	0.3%
Large Cars	345	347	349	350	352	353	355	356	357	358	359	360	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	341	344	346	348	349	351	353	355	357	359	360	361	0.8%
Large Pickup	388	392	394	397	399	401	402	404	407	409	411	412	0.7%
Small Van	414	416	418	419	420	422	423	425	427	429	431	432	0.6%
Large Van	479	483	487	490	493	495	498	501	505	508	511	514	N/A
Small Utility	340	341	343	345	346	348	349	351	353	355	356	358	N/A
Large Utility	388	392	394	396	399	400	402	405	407	409	411	412	0.7%
<b>Compressed Natural Gas (CNG)</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	272	273	274	275	276	276	277	278	278	279	280	280	0.3%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	283	285	287	288	289	290	291	293	294	294	295	296	0.3%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	319	322	324	326	328	329	331	332	334	336	338	339	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	394	397	400	403	405	407	409	412	415	418	420	422	0.8%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>CNG Bi-Fuel</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	227	227	228	229	230	230	231	231	232	233	233	233	0.3%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	236	237	239	240	241	242	243	244	245	245	246	246	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	266	268	270	272	273	275	276	277	279	280	281	282	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	328	331	334	336	338	339	341	343	346	348	350	352	0.8%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A



Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Liquefied Petroleum Gas (LPG)</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	452	456	459	462	464	467	468	471	474	476	478	480	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	558	563	567	571	574	577	580	584	588	592	595	598	0.8%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>LPG Bi-Fuel</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	362	364	365	367	367	368	369	370	371	372	373	373	N/A
Midsize Cars	379	381	383	384	386	387	388	389	390	391	391	392	N/A
Large Cars	378	380	382	384	386	387	389	390	391	393	393	394	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	426	429	432	435	437	439	441	443	446	448	450	452	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	525	530	534	537	540	543	546	549	553	557	560	563	0.8%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Electric</b>													
Mini-compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Diesel-Electric Hybrid</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	589	591	593	596	597	598	600	602	603	605	606	607	N/A
Midsize Cars	616	619	622	625	627	629	630	632	633	635	636	637	N/A
Large Cars	614	617	621	624	627	629	631	634	636	638	639	641	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	740	744	746	748	751	754	757	761	764	767	770	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	622	626	629	632	635	637	N/A
Large Utility	0	0	0	706	710	713	717	720	724	728	731	734	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Gasoline-Electric Hybrid</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	555	558	560	563	564	566	567	570	571	573	574	575	N/A
Compact Cars	566	568	571	573	574	575	577	579	580	581	583	584	0.3%
Midsize Cars	593	595	598	601	603	605	606	608	609	610	612	613	N/A
Large Cars	590	594	597	600	603	605	607	610	612	613	615	616	N/A
Two Seater Cars	526	529	532	535	536	538	540	541	543	545	546	548	0.4%
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	709	712	715	717	719	722	725	728	731	735	737	740	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	582	584	587	590	593	596	598	602	604	608	610	613	N/A
Large Utility	665	671	675	679	682	686	689	693	696	700	703	706	N/A
<b>Fuel Cell Methanol</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Fuel Cell Hydrogen</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	444	446	448	450	451	453	454	456	457	458	459	460	N/A
Compact Cars	0	0	0	0	459	460	461	463	464	465	466	467	N/A
Midsize Cars	474	476	478	481	482	484	485	486	487	488	489	490	N/A
Large Cars	0	0	478	480	482	484	486	488	489	491	492	493	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	567	569	572	574	575	578	580	582	585	588	590	592	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	466	468	470	472	474	477	479	481	484	486	488	490	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Fuel Cell Gasoline</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	472	475	478	480	482	484	486	488	489	491	492	493	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	567	569	572	574	575	578	580	582	585	588	590	592	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	466	468	470	472	474	477	479	481	484	486	488	490	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range  
(Miles)

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/ (gigawatts)</b>													
Coal Steam	84.34	84.34	84.33	84.17	83.59	82.17	81.85	81.85	81.32	81.32	81.32	81.32	81.32
Other Fossil Steam 2/	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.81	3.81	3.81	3.81	3.81
Combined Cycle	4.24	8.72	11.97	12.95	12.95	12.95	12.95	12.95	12.91	12.91	13.96	14.60	15.67
Combustion Turbine/Diesel	13.84	19.59	21.22	21.22	21.14	21.14	21.11	21.08	18.97	19.21	19.83	19.93	20.20
Nuclear Power	7.68	7.69	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72
Pumped Storage/Other 3/	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36
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/	1.72	1.73	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.92	1.95	2.01
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	119.01	129.25	134.27	135.09	134.43	133.01	132.67	132.63	129.94	130.18	131.92	132.70	134.09
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	3.25	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23
Combustion Turbine/Diesel	0.00	0.00	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
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	5.26	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	1.06	1.70	2.77
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.86	0.96	1.23
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	0.07	0.11	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	0.00	0.24	1.99	2.76	4.16
Cumulative Total Additions	0.00	0.00	5.26	6.24	6.24	6.24	6.24	6.24	6.24	6.48	8.22	9.00	10.40
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.01	0.17	0.75	2.17	2.48	2.48	3.01	3.01	3.01	3.01	3.01
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.04	0.04	0.04
Combustion Turbine/Diesel	0.00	0.00	0.31	0.31	0.39	0.39	0.42	0.45	2.56	2.56	2.56	2.56	2.56
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	0.00	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	0.32	0.48	1.14	2.56	2.90	2.93	5.63	5.63	5.63	5.63	5.63

Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.89	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
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	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.22
Other Gaseous Fuels	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
Renewable Sources 4/	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.18
Other	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
Total	1.26	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.38	1.39	1.40	1.42
Other End Use Generators	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	158.95	169.00	172.72	176.58	178.82	181.14	184.04	187.65	190.27	193.27	195.90	198.86	200.68
Commercial/Other	149.12	150.48	152.21	158.18	162.62	166.55	169.94	172.88	175.45	177.90	180.28	182.51	184.86
Industrial	194.63	199.02	200.85	206.31	211.85	216.40	220.87	224.42	227.66	231.31	235.41	239.28	243.30
Transportation	3.06	3.07	3.22	3.30	3.38	3.44	3.49	3.54	3.59	3.65	3.70	3.76	3.82
Total Sales	505.77	521.57	529.01	544.39	556.67	567.53	578.34	588.49	596.97	606.13	615.30	624.41	632.66
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	0.07	0.01	9.67	10.81	9.34	9.49	9.34	8.72	9.95	10.10	10.64	9.91	9.75
Gross International Exports	2.18	0.93	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Gross Interregional Electricity Imports	6.01	9.62	8.72	10.58	7.56	8.18	8.12	7.70	9.30	8.86	8.86	8.93	7.99
Gross Interregional Electricity Exports	44.38	57.62	65.80	67.30	62.69	61.47	63.80	67.32	69.24	67.27	70.62	71.62	71.35
Purchases from Combined Heat and Power 8	1.39	1.54	1.62	1.79	1.97	2.13	2.26	2.38	2.54	2.73	2.91	3.09	3.27
Electric Power Sector Generation for Custom	556.54	568.31	610.84	625.25	637.70	646.74	660.34	675.27	682.77	690.34	702.32	713.07	722.09
Total Net Energy for Load	517.46	520.92	565.01	581.09	593.83	605.03	616.21	626.72	635.28	644.72	654.07	663.34	671.70
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	483.11	491.98	517.24	517.65	531.82	540.02	555.29	562.39	574.58	578.66	582.43	585.62	587.51
Petroleum	1.91	2.18	0.89	0.87	0.66	0.66	0.61	0.67	0.56	0.54	0.62	0.66	0.69
Natural Gas	15.83	21.55	40.92	54.97	52.76	53.50	51.58	59.36	53.72	56.52	64.25	71.58	78.53
Nuclear	55.35	55.55	55.23	55.91	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13
Pumped Storage/Other 3/	-1.63	-1.48	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38
Renewable Sources 4/	5.92	5.41	7.45	6.94	7.48	7.61	7.93	7.93	8.18	8.88	9.29	9.48	9.63
Total Generation	560.49	575.19	619.36	633.96	646.48	655.54	669.17	684.10	690.79	698.36	710.35	721.09	730.11
Sales to Customers	556.54	568.31	610.84	625.25	637.70	646.74	660.34	675.27	682.77	690.34	702.32	713.07	722.09
Generation for Own Use	3.95	6.88	8.52	8.71	8.78	8.80	8.83	8.83	8.02	8.02	8.02	8.02	8.02
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
<b>Combined Heat and Power</b>													
Coal	4.67	4.61	4.56	4.56	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57
Petroleum	0.25	0.23	0.24	0.24	0.38	0.41	0.43	0.46	0.50	0.54	0.58	0.60	0.63
Natural Gas	1.45	1.48	1.47	1.51	1.57	1.64	1.69	1.75	1.83	1.91	1.99	2.06	2.12
Other Gaseous Fuels	0.17	0.22	0.27	0.27	0.36	0.38	0.38	0.39	0.41	0.42	0.43	0.45	0.46
Renewable Sources 4/	4.30	4.49	4.59	4.84	5.09	5.25	5.37	5.47	5.62	5.80	5.99	6.20	6.41
Other	0.84	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
Total	11.68	12.14	12.24	12.53	13.07	13.36	13.55	13.76	14.04	14.36	14.68	14.99	15.30
Other End Use Generators	0.49	0.63	0.63	0.64	0.65	0.66	0.68	0.69	0.71	0.74	0.74	0.74	0.75

Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	1.39	1.54	1.62	1.79	1.97	2.13	2.26	2.38	2.54	2.73	2.91	3.09	3.27
Generation for Own Use	10.78	11.23	11.26	11.38	11.75	11.89	11.97	12.07	12.21	12.37	12.50	12.64	12.78
Total Electricity Generation	572.66	587.96	632.23	647.13	660.20	669.56	683.40	698.56	705.55	713.46	725.76	736.82	746.16
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.5	7.4	7.4	7.2	7.0	7.3	7.1	7.0	6.9	6.9	7.0	7.1	7.2
Commercial	7.0	6.8	6.7	6.6	6.4	6.2	6.1	6.0	6.0	6.1	6.2	6.4	6.5
Industrial	4.3	4.3	4.5	4.4	4.4	4.3	4.2	4.3	4.3	4.3	4.3	4.5	4.5
Transportation	6.1	5.9	6.4	6.2	6.1	5.8	5.7	5.6	5.6	5.6	5.7	5.8	5.9
All Sectors Average	6.1	6.0	6.1	6.0	5.8	5.8	5.7	5.6	5.7	5.7	5.7	5.9	6.0
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.0	3.9	4.0	3.9	3.8	3.8	3.6	3.6	3.6	3.6	3.6	3.8	3.9
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Distribution	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Fuel Consumption (quadrillion Btu) 9/													
Coal	4.98	5.07	5.28	5.27	5.41	5.49	5.65	5.73	5.87	5.92	5.96	6.00	6.03
Natural Gas	0.17	0.22	0.41	0.53	0.51	0.52	0.50	0.56	0.46	0.48	0.54	0.60	0.64
Oil	0.02	0.02	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	5.31	5.70	5.81	5.93	6.02	6.16	6.30	6.33	6.41	6.51	6.61	6.68
Emissions (million tons) 10/													
Total Carbon	149.65	154.19	155.45	156.99	160.48	162.90	167.04	170.26	172.56	174.41	176.61	178.75	180.23
Carbon Dioxide	548.71	565.38	569.98	575.61	588.42	597.29	612.48	624.29	632.72	639.49	647.57	655.40	660.86
Sulfur Dioxide	3.36	3.22	3.22	3.33	3.24	3.08	3.18	3.24	3.09	3.11	3.15	2.97	2.87
Nitrogen Oxide	1.19	1.10	0.86	0.67	0.68	0.68	0.70	0.72	0.73	0.73	0.73	0.73	0.73

Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	-0.2%
Other Fossil Steam 2/	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	0.0%
Combined Cycle	17.12	18.36	19.28	20.80	22.42	24.16	25.71	27.66	29.13	31.03	32.03	33.97	6.1%
Combustion Turbine/Diesel	20.20	20.47	20.47	20.53	20.73	21.13	21.62	22.11	22.77	23.39	24.02	24.69	1.0%
Nuclear Power	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	0.0%
Pumped Storage/Other 3/	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	N/A
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	N/A
Renewable Sources 4/	2.01	2.06	2.15	2.20	2.30	2.39	2.42	2.42	2.42	2.42	2.42	2.42	1.5%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	N/A
Total Capacity	135.54	137.11	138.12	139.74	141.67	143.88	145.96	148.40	150.57	153.09	154.72	157.33	0.9%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	N/A
Combustion Turbine/Diesel	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
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	N/A
Total Planned Additions	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	4.21	5.46	6.37	7.89	9.52	11.25	12.80	14.75	16.23	18.13	19.12	21.07	N/A
Combustion Turbine/Diesel	1.23	1.50	1.50	1.56	1.76	2.15	2.65	3.14	3.80	4.41	5.05	5.72	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.16	0.21	0.31	0.35	0.46	0.55	0.57	0.57	0.57	0.57	0.57	0.57	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	N/A
Total Unplanned Additions	5.60	7.17	8.18	9.80	11.74	13.95	16.03	18.46	20.64	23.15	24.78	27.40	N/A
Cumulative Total Additions	11.84	13.41	14.42	16.04	17.98	20.19	22.27	24.70	26.87	29.39	31.02	33.64	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	N/A
Other Fossil Steam 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	N/A
Combined Cycle	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Combustion Turbine/Diesel	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	N/A

Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/</b>													
<b>Capacity</b>													
Coal	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%
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	3.8%
Natural Gas	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.31	3.0%
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	1.8%
Renewable Sources 4/	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	3.0%
Other	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	N/A
Total	1.43	1.44	1.45	1.46	1.48	1.49	1.50	1.52	1.53	1.54	1.56	1.57	0.8%
Other End Use Generators	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	3.1%
<b>Electricity Demand</b> (billion kilowatthours)													
Residential	203.17	205.74	208.67	210.67	213.32	216.24	219.59	221.57	224.34	227.27	230.75	232.95	1.4%
Commercial/Other	187.29	189.76	192.09	194.74	197.58	200.66	203.70	206.85	210.12	213.69	217.46	221.52	1.7%
Industrial	246.87	250.61	254.78	259.44	263.98	267.45	271.45	274.95	279.37	284.04	288.65	294.04	1.7%
Transportation	3.88	3.94	3.99	4.05	4.12	4.19	4.26	4.32	4.39	4.46	4.54	4.61	1.8%
Total Sales	641.22	650.05	659.54	668.90	679.01	688.53	698.99	707.71	718.22	729.46	741.39	753.11	1.6%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	8.89	7.49	5.76	4.18	2.32	1.57	1.38	0.99	0.50	0.22	0.01	0.00	N/A
Gross International Exports	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-12.5%
Gross Interregional Electricity Imports	8.22	8.05	6.94	6.46	5.76	5.07	4.86	4.73	5.48	5.76	4.75	5.23	-2.6%
Gross Interregional Electricity Exports	71.54	72.32	69.91	69.85	68.61	69.12	67.64	62.52	55.05	52.83	49.20	49.26	-0.7%
Purchases from Combined Heat and Power 8	3.43	3.56	3.68	3.82	3.98	4.13	4.28	4.39	4.51	4.63	4.76	4.89	5.1%
Electric Power Sector Generation for Custom	731.35	742.51	752.86	764.63	776.46	788.33	798.17	802.68	805.93	815.46	825.55	837.40	1.7%
Total Net Energy for Load	680.31	689.25	699.29	709.19	719.87	729.95	741.01	750.23	761.32	773.21	785.83	798.22	1.9%
<b>Generation by Fuel Type</b> (billion kilowatthours)													
Coal	588.71	590.84	592.89	594.05	594.09	594.30	594.50	594.40	593.98	594.33	595.17	595.81	0.8%
Petroleum	0.81	0.93	0.89	0.91	0.92	0.90	1.01	1.10	1.17	1.14	1.18	1.18	-2.6%
Natural Gas	86.43	95.12	103.09	113.50	125.19	136.71	146.21	151.06	154.78	163.98	173.19	184.50	9.8%
Nuclear	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	0.0%
Pumped Storage/Other 3/	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	2.1%
Renewable Sources 4/	9.67	9.89	10.25	10.43	10.53	10.68	10.73	10.39	10.26	10.28	10.27	10.17	2.8%
Total Generation	739.38	750.54	760.88	772.65	784.49	796.36	806.20	810.71	813.95	823.48	833.58	845.43	1.7%
Sales to Customers	731.35	742.51	752.86	764.63	776.46	788.33	798.17	802.68	805.93	815.46	825.55	837.40	1.7%
Generation for Own Use	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	0.7%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	N/A
<b>Combined Heat and Power</b>													
Coal	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.58	4.58	0.0%
Petroleum	0.65	0.66	0.66	0.67	0.71	0.74	0.78	0.78	0.78	0.79	0.79	0.79	5.6%
Natural Gas	2.19	2.25	2.32	2.40	2.49	2.58	2.68	2.76	2.86	2.95	3.06	3.17	3.4%
Other Gaseous Fuels	0.47	0.48	0.49	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	4.3%
Renewable Sources 4/	6.60	6.75	6.90	7.06	7.21	7.34	7.46	7.59	7.72	7.86	7.99	8.14	2.6%
Other	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	0.0%
Total	15.59	15.82	16.06	16.32	16.61	16.87	17.15	17.37	17.61	17.85	18.11	18.38	1.8%
Other End Use Generators	0.75	0.75	0.75	0.76	0.77	0.78	0.80	0.83	0.87	0.90	0.94	0.98	1.9%



Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	3.43	3.56	3.68	3.82	3.98	4.13	4.28	4.39	4.51	4.63	4.76	4.89	5.1%
Generation for Own Use	12.91	13.02	13.14	13.26	13.40	13.53	13.67	13.81	13.96	14.12	14.29	14.47	1.1%
Total Electricity Generation	755.71	767.11	777.70	789.73	801.87	814.01	824.15	828.91	832.44	842.25	852.64	864.80	1.7%
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.2	7.3	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.2	7.3	7.3	0.0%
Commercial	6.6	6.7	6.9	6.9	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.9	0.0%
Industrial	4.6	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.9	4.9	0.6%
Transportation	5.9	6.0	6.1	6.1	6.1	6.0	6.0	6.0	6.0	5.9	6.0	6.0	0.0%
All Sectors Average	6.0	6.1	6.2	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.2%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.2	4.2	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	0.6%
Distribution	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.5%
Fuel Consumption (quadrillion Btu) 9/													
Coal	6.04	6.07	6.09	6.11	6.11	6.11	6.11	6.11	6.10	6.11	6.12	6.13	0.8%
Natural Gas	0.69	0.75	0.80	0.87	0.95	1.02	1.08	1.11	1.12	1.18	1.25	1.32	8.2%
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	-2.4%
Total	6.74	6.83	6.91	6.99	7.07	7.14	7.21	7.23	7.24	7.30	7.38	7.46	1.5%
Emissions (million tons) 10/													
Total Carbon	181.49	183.18	185.04	186.44	187.63	189.02	190.18	190.48	190.74	191.78	193.15	194.61	1.0%
Carbon Dioxide	665.48	671.65	678.48	683.62	687.97	693.07	697.31	698.42	699.38	703.20	708.20	713.55	1.0%
Sulfur Dioxide	2.82	2.74	2.62	2.67	2.70	2.67	2.64	2.68	2.69	2.71	2.71	2.74	-0.7%
Nitrogen Oxide	0.73	0.74	0.74	0.75	0.74	0.74	0.74	0.73	0.73	0.73	0.73	0.73	-1.8%

Table 60. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	15.24	15.24	15.24	15.24	15.24	15.24	15.24	15.24	15.59	15.59	15.59	15.59	15.59
Other Fossil Steam 2/	30.08	30.01	29.72	29.48	28.95	27.99	25.73	24.59	21.33	20.90	20.81	19.77	19.67
Combined Cycle	11.15	16.05	19.10	19.78	19.78	19.78	19.78	19.78	21.09	22.38	23.02	23.65	24.83
Combustion Turbine/Diesel	6.02	6.58	6.16	6.16	6.14	6.14	5.79	5.79	6.20	7.24	7.60	8.27	8.55
Nuclear Power	4.83	4.83	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.95	4.95	4.95	4.95
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/	1.52	1.81	2.06	2.08	2.08	2.08	2.08	2.09	2.12	2.18	2.20	2.21	2.21
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.23	0.31	0.38	0.45
Total Capacity	68.84	74.52	77.14	77.60	77.06	76.11	73.49	72.43	71.36	73.46	74.47	74.81	76.23
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	3.05	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
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	0.25	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
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	3.29	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.01
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.35	0.35
Other Fossil 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	1.31	2.60	3.24	3.87	5.05
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.46	1.82	2.49	2.77
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	0.04	0.09	0.12	0.12	0.12
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.23	0.31	0.38	0.45
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	2.27	4.73	5.83	7.20	8.73
Cumulative Total Additions	0.00	0.00	3.29	4.00	4.00	4.00	4.00	4.08	6.28	8.73	9.84	11.21	12.74
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	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 Fossil Steam 3/	0.00	0.00	0.00	0.25	0.78	1.73	4.00	5.13	8.39	8.82	8.92	9.96	10.06
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	0.01	0.01	0.37	0.37	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	0.25	0.79	1.74	4.36	5.50	8.77	9.20	9.30	10.34	10.44

Table 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	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
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	5.14	5.21	5.26	5.38	5.59	5.79	5.94	6.12	6.34	6.57	6.78	6.99	7.16
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 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
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	5.47	5.55	5.60	5.72	5.93	6.13	6.28	6.46	6.68	6.90	7.12	7.32	7.50
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	104.01	107.43	108.93	110.32	111.93	113.84	115.54	117.60	119.25	121.67	123.85	125.94	127.38
Commercial/Other	86.58	86.28	86.11	89.23	92.71	95.96	98.97	101.73	104.34	107.15	109.82	111.82	113.73
Industrial	76.96	78.83	76.37	78.41	79.61	81.82	83.64	84.81	85.59	86.84	88.36	89.76	91.44
Transportation	1.37	1.39	1.41	1.45	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79
Total Sales	268.92	273.93	272.81	279.40	285.75	293.15	299.71	305.74	310.81	317.33	323.73	329.27	334.32
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	0.03	0.39	0.42	0.45	0.49	0.53	0.57	0.62	0.67	0.67	0.67	0.67
Gross Interregional Electricity Imports	4.20	4.94	6.75	6.58	6.57	6.57	6.57	6.60	5.39	4.60	4.23	3.34	2.89
Gross Interregional Electricity Exports	1.92	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.45	1.29	1.13	0.97
Purchases from Combined Heat and Power 8	6.65	6.84	7.05	7.51	7.48	8.20	8.81	9.46	10.24	11.04	11.78	12.48	13.09
Electric Power Sector Generation for Custom	266.32	268.19	277.63	284.51	291.07	298.00	304.19	309.81	315.36	322.04	328.07	333.71	338.53
Total Net Energy for Load	275.25	278.34	289.45	296.57	303.06	310.68	317.43	323.70	328.77	335.56	342.12	347.72	352.87
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	102.26	107.49	104.66	104.86	107.97	110.60	112.77	112.88	115.43	115.43	115.40	115.38	115.35
Petroleum	2.53	1.48	1.19	0.63	0.80	0.84	0.81	0.91	0.42	0.05	0.39	0.63	0.68
Natural Gas	125.73	126.10	146.37	146.95	149.76	153.85	157.74	163.33	166.32	176.78	177.83	183.07	187.68
Nuclear	38.16	35.62	30.55	36.64	36.95	37.10	37.25	37.40	37.54	33.93	38.46	38.61	38.76
Pumped Storage/Other 3/	0.01	0.41	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/	2.11	2.67	5.54	6.13	6.28	6.30	6.31	6.00	6.34	6.53	6.68	6.71	6.75
Total Generation	270.81	273.77	288.32	295.20	301.76	308.69	314.88	320.50	326.05	332.73	338.76	344.40	349.22
Sales to Customers	266.32	268.19	277.63	284.51	291.07	298.00	304.19	309.81	315.36	322.04	328.07	333.71	338.53
Generation for Own Use	4.49	5.58	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.10	0.13	0.16	0.20
<b>Combined Heat and Power</b>													
Coal	2.58	2.55	2.52	2.52	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53
Petroleum	0.10	0.09	0.10	0.10	0.15	0.16	0.17	0.18	0.20	0.21	0.23	0.24	0.25
Natural Gas	29.69	30.36	30.13	30.98	32.17	33.64	34.73	36.01	37.61	39.26	40.80	42.29	43.58
Other Gaseous Fuels	0.07	0.09	0.11	0.11	0.14	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.18
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
Other	0.56	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Total	33.00	33.83	33.59	34.44	35.73	37.22	38.32	39.62	41.23	42.91	44.47	45.97	47.28
Other End Use Generators	0.00	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 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	6.65	6.84	7.05	7.51	7.48	8.20	8.81	9.46	10.24	11.04	11.78	12.48	13.09
Generation for Own Use	26.35	26.99	26.54	26.94	28.25	29.02	29.51	30.16	30.99	31.87	32.69	33.49	34.19
Total Electricity Generation	303.81	307.60	321.91	329.64	337.48	345.91	353.20	360.16	367.35	375.74	383.37	390.53	396.69
End-Use Prices (2002 cents per kilowatthour)													
Residential	9.1	8.2	8.1	7.9	7.7	7.7	8.0	8.1	8.2	8.0	8.1	8.4	8.5
Commercial	8.1	7.2	7.7	7.4	7.3	7.2	7.2	7.4	7.5	7.3	7.5	7.9	7.8
Industrial	5.5	4.7	4.9	4.7	4.7	4.7	4.8	5.0	5.1	5.0	5.1	5.4	5.4
Transportation	7.2	7.1	7.1	6.8	6.7	6.6	6.5	6.7	6.8	6.7	6.9	7.2	7.3
All Sectors Average	7.7	6.8	7.1	6.8	6.7	6.7	6.8	7.0	7.1	6.9	7.0	7.4	7.4
Prices by Service Category (2002 cents per kilowatthour)													
Generation	5.1	4.2	4.5	4.3	4.2	4.2	4.4	4.5	4.6	4.5	4.6	5.0	5.0
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
Distribution	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.10	1.16	1.10	1.10	1.14	1.17	1.19	1.19	1.21	1.21	1.21	1.21	1.21
Natural Gas	1.24	1.12	1.21	1.21	1.23	1.27	1.31	1.36	1.37	1.43	1.43	1.46	1.48
Oil	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01
Total	2.37	2.30	2.32	2.32	2.38	2.45	2.51	2.56	2.58	2.65	2.65	2.68	2.70
Emissions (million tons) 10/													
Total Carbon	53.14	52.37	51.40	51.28	52.69	54.12	55.36	56.26	56.81	57.81	57.84	58.41	58.71
Carbon Dioxide	194.84	192.01	188.45	188.03	193.20	198.46	203.00	206.28	208.32	211.96	212.08	214.15	215.26
Sulfur Dioxide	0.33	0.27	0.25	0.27	0.25	0.25	0.25	0.29	0.25	0.24	0.24	0.24	0.24
Nitrogen Oxide	0.26	0.24	0.19	0.19	0.19	0.20	0.20	0.21	0.20	0.20	0.20	0.20	0.20

Table 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	15.59	15.59	15.59	15.59	15.59	15.59	15.59	15.59	15.59	16.65	17.20	18.19	0.8%
Other Fossil Steam 2/	19.67	19.51	19.51	19.51	19.11	18.97	18.75	18.17	17.93	17.70	17.57	16.77	-2.5%
Combined Cycle	25.68	26.10	26.53	27.74	27.74	28.46	29.17	30.29	31.10	31.34	31.50	31.97	3.0%
Combustion Turbine/Diesel	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.54	8.54	1.1%
Nuclear Power	4.95	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	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	N/A
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	N/A
Renewable Sources 4/	2.21	2.21	2.21	2.22	2.22	2.25	2.28	2.31	2.31	2.32	2.32	2.36	1.2%
Distributed Generation 5/	0.52	0.59	0.65	0.71	0.76	0.81	0.86	0.90	0.95	1.00	1.04	1.09	N/A
Total Capacity	77.16	77.73	78.22	79.49	79.15	79.81	80.38	81.00	81.62	82.74	83.35	84.10	0.5%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	N/A
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	N/A
Total Planned Additions	4.01	4.01	4.01	4.02	4.02	4.02	4.02	4.02	4.03	4.03	4.03	4.03	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	1.41	1.96	2.94	N/A
Other Fossil 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	N/A
Combined Cycle	5.90	6.32	6.75	7.96	7.96	8.68	9.39	10.51	11.32	11.56	11.72	12.19	N/A
Combustion Turbine/Diesel	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.12	0.12	0.12	0.12	0.12	0.14	0.18	0.20	0.20	0.20	0.20	0.25	N/A
Distributed Generation 5/	0.52	0.59	0.65	0.71	0.76	0.81	0.86	0.90	0.95	1.00	1.04	1.09	N/A
Total Unplanned Additions	9.66	10.14	10.63	11.89	11.95	12.75	13.54	14.73	15.59	16.93	17.68	19.23	N/A
Cumulative Total Additions	13.67	14.15	14.64	15.91	15.97	16.77	17.56	18.76	19.62	20.96	21.71	23.26	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	10.06	10.22	10.22	10.22	10.61	10.76	10.98	11.55	11.79	12.02	12.15	12.95	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	10.44	10.60	10.60	10.60	10.99	11.13	11.35	11.93	12.17	12.40	12.54	13.33	N/A

Table 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.0%
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	N/A
Natural Gas	7.35	7.53	7.74	7.95	8.21	8.47	8.75	9.00	9.27	9.55	9.86	10.19	3.0%
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	N/A
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	N/A
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	N/A
Total	7.68	7.87	8.08	8.29	8.54	8.80	9.09	9.34	9.61	9.89	10.19	10.52	2.8%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	129.28	131.13	133.26	135.12	137.11	139.32	141.62	143.04	145.09	147.41	150.00	151.76	1.5%
Commercial/Other	115.46	116.80	117.82	119.13	120.29	121.57	122.71	123.95	125.22	126.67	128.07	129.58	1.8%
Industrial	92.79	94.19	95.51	96.75	97.10	97.67	98.49	99.64	101.12	102.84	104.43	106.30	1.3%
Transportation	1.82	1.86	1.91	1.95	1.99	2.04	2.08	2.13	2.17	2.22	2.27	2.32	2.2%
Total Sales	339.35	343.99	348.50	352.94	356.49	360.61	364.90	368.77	373.60	379.15	384.76	389.97	1.5%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	N/A
Gross International Exports	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	13.9%
Gross Interregional Electricity Imports	2.92	2.76	2.57	2.25	2.18	2.17	3.37	3.55	3.40	3.53	3.04	3.20	-1.9%
Gross Interregional Electricity Exports	0.81	0.65	0.49	0.39	0.23	0.10	0.01	0.01	0.00	0.00	0.01	0.01	-20.1%
Purchases from Combined Heat and Power 8	13.72	14.32	15.01	15.70	16.56	17.44	18.37	19.16	19.99	20.85	21.79	22.78	5.4%
Electric Power Sector Generation for Custom	342.41	346.43	350.48	354.61	357.36	360.66	362.93	365.98	370.33	375.17	380.59	384.87	1.6%
Total Net Energy for Load	357.56	362.19	366.89	371.50	375.20	379.50	383.99	388.01	393.05	398.87	404.75	410.17	1.7%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	115.35	115.39	115.31	115.34	115.34	115.34	115.39	115.40	115.33	123.22	127.30	134.75	1.0%
Petroleum	1.07	2.44	2.15	0.89	0.67	0.65	0.73	1.00	0.81	0.65	0.70	0.71	-3.2%
Natural Gas	191.01	191.71	195.84	201.22	204.02	207.12	209.15	211.71	216.16	213.25	214.53	211.27	2.3%
Nuclear	38.91	40.95	41.11	41.27	41.43	41.54	41.54	41.54	41.54	41.54	41.54	41.54	0.7%
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	N/A
Renewable Sources 4/	6.76	6.63	6.75	6.58	6.59	6.70	6.82	7.02	7.17	7.21	7.21	7.30	4.5%
Total Generation	353.10	357.12	361.17	365.30	368.05	371.35	373.62	376.67	381.02	385.86	391.28	395.56	1.6%
Sales to Customers	342.41	346.43	350.48	354.61	357.36	360.66	362.93	365.98	370.33	375.17	380.59	384.87	1.6%
Generation for Own Use	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	2.9%
Distributed Generation 5/	0.23	0.26	0.28	0.31	0.33	0.36	0.38	0.40	0.42	0.44	0.45	0.48	N/A
<b>Combined Heat and Power</b>													
Coal	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	0.0%
Petroleum	0.25	0.26	0.26	0.26	0.28	0.29	0.31	0.31	0.31	0.31	0.31	0.31	5.6%
Natural Gas	44.91	46.24	47.73	49.27	51.08	52.95	54.96	56.78	58.70	60.67	62.85	65.17	3.4%
Other Gaseous Fuels	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	4.3%
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	N/A
Other	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.0%
Total	48.62	49.96	51.46	53.01	54.83	56.72	58.75	60.57	62.50	64.48	66.66	68.98	3.1%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	13.72	14.32	15.01	15.70	16.56	17.44	18.37	19.16	19.99	20.85	21.79	22.78	5.4%
Generation for Own Use	34.90	35.64	36.45	37.30	38.27	39.29	40.38	41.42	42.51	43.63	44.87	46.20	2.4%
Total Electricity Generation	401.95	407.34	412.91	418.61	423.22	428.43	432.75	437.64	443.94	450.77	458.40	465.02	1.8%
End-Use Prices (2002 cents per kilowatthour)													
Residential	8.5	8.7	8.8	8.6	8.8	8.8	9.0	9.1	9.1	9.0	9.3	9.4	0.6%
Commercial	8.0	8.2	8.4	8.1	8.5	8.6	8.8	9.0	9.1	9.0	9.3	9.5	1.2%
Industrial	5.5	5.8	5.9	5.7	5.9	5.9	6.1	6.3	6.3	6.2	6.4	6.5	1.4%
Transportation	7.3	7.5	7.6	7.4	7.7	7.7	7.8	8.0	8.0	7.9	8.1	8.2	0.6%
All Sectors Average	7.5	7.7	7.8	7.6	7.9	7.9	8.1	8.3	8.3	8.3	8.5	8.6	1.1%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	5.1	5.4	5.5	5.3	5.6	5.7	5.8	6.1	6.1	6.0	6.3	6.4	1.9%
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	0.6%
Distribution	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	-1.1%
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.28	1.31	1.38	0.7%
Natural Gas	1.50	1.49	1.52	1.55	1.58	1.59	1.60	1.60	1.63	1.60	1.61	1.57	1.5%
Oil	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-3.8%
Total	2.72	2.73	2.75	2.77	2.79	2.81	2.82	2.82	2.85	2.88	2.93	2.96	1.1%
Emissions (million tons) 10/													
Total Carbon	59.01	59.29	59.68	59.86	60.23	60.47	60.59	60.70	61.06	62.46	63.62	64.85	0.9%
Carbon Dioxide	216.39	217.39	218.83	219.49	220.84	221.71	222.16	222.57	223.89	229.00	233.26	237.77	0.9%
Sulfur Dioxide	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.23	0.23	0.23	-0.8%
Nitrogen Oxide	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%



Table 61. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/ (gigawatts)</b>													
Coal Steam	20.20	20.09	19.89	20.42	20.37	20.37	20.37	20.37	20.37	20.37	20.37	20.37	20.37
Other Fossil Steam 2/	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.33	8.33	8.33	8.33
Combined Cycle	5.80	9.37	12.97	13.70	13.70	13.70	13.70	13.70	13.70	13.97	14.30	14.30	14.57
Combustion Turbine/Diesel	9.93	11.18	11.77	11.91	11.91	11.91	11.91	11.91	11.78	12.76	13.67	14.14	14.91
Nuclear Power	13.02	13.04	13.14	13.30	13.30	13.41	13.41	13.41	13.43	13.43	13.43	13.43	13.43
Pumped Storage/Other 3/	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
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/	1.91	1.92	1.95	1.95	1.96	1.96	1.97	1.98	1.98	2.01	2.01	2.01	2.01
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.16	0.23	0.30	0.37
Total Capacity	60.53	65.27	69.39	70.96	70.91	71.02	71.03	71.04	71.01	72.33	73.64	74.18	75.29
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Other Fossil 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	3.60	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32
Combustion Turbine/Diesel	0.00	0.00	0.59	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	0.04	0.04	0.04	0.04	0.06	0.07	0.07	0.07	0.07	0.07	0.07
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	4.22	5.62	5.62	5.63	5.64	5.65	5.65	5.65	5.65	5.65	5.65
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.27	0.60	0.60	0.87
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.52	2.75	3.22	3.99
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	0.02	0.02	0.02	0.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.16	0.23	0.30	0.37
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.96	3.60	4.14	5.25
Cumulative Total Additions	0.00	0.00	4.22	5.62	5.62	5.63	5.64	5.65	5.87	7.61	9.26	9.79	10.90
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.20	0.20	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.27	0.67	0.99	0.99	0.99
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	0.20	0.20	0.24	0.25	0.25	0.25	0.52	0.94	1.27	1.27	1.27

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
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
Petroleum	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Natural Gas	0.53	0.54	0.54	0.55	0.57	0.60	0.61	0.63	0.65	0.68	0.70	0.72	0.74
Other Gaseous Fuels	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
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
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
Total	0.79	0.81	0.81	0.83	0.85	0.88	0.89	0.91	0.94	0.96	0.99	1.01	1.03
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	84.66	92.71	94.24	95.63	96.86	98.35	99.95	101.73	102.61	103.65	104.48	105.52	106.02
Commercial/Other	110.66	115.24	115.75	119.99	124.27	128.23	131.82	135.36	138.63	142.12	145.42	148.32	150.99
Industrial	48.35	49.59	49.02	50.30	51.37	52.28	53.17	53.83	54.56	55.35	56.23	57.07	58.01
Transportation	1.83	1.90	1.96	2.01	2.05	2.09	2.12	2.15	2.18	2.21	2.25	2.28	2.32
Total Sales	245.51	259.44	260.96	267.93	274.54	280.94	287.06	293.07	297.98	303.33	308.39	313.19	317.35
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	15.85	30.61	34.69	33.00	32.81	32.89	34.28	33.83	33.02	32.11	31.61	31.94	31.54
Gross Interregional Electricity Exports	15.88	17.96	16.31	16.33	14.83	16.22	19.08	18.77	19.68	15.68	13.81	14.34	13.42
Purchases from Combined Heat and Power 8	1.10	1.20	1.26	1.35	1.46	1.64	1.78	1.94	2.13	2.34	2.54	2.70	2.85
Electric Power Sector Generation for Custom	250.43	256.97	259.95	268.99	274.41	282.17	289.86	295.92	302.41	304.56	308.16	313.32	316.85
Total Net Energy for Load	251.50	270.82	279.59	287.01	293.85	300.47	306.85	312.92	317.88	323.33	328.51	333.62	337.82
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	114.38	117.14	124.32	126.69	131.21	137.06	142.45	144.24	145.66	146.56	147.29	147.43	147.76
Petroleum	9.09	6.13	6.06	3.79	3.77	3.82	3.93	3.99	4.17	1.65	1.83	2.55	2.98
Natural Gas	19.26	25.33	20.15	25.38	25.28	26.24	28.22	32.28	36.92	40.63	43.10	47.39	50.12
Nuclear	104.68	105.49	104.98	107.67	108.19	109.11	109.16	109.21	109.37	109.37	109.37	109.37	109.37
Pumped Storage/Other 3/	-0.32	-0.30	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
Renewable Sources 4/	6.57	7.46	10.33	11.37	11.93	11.95	12.16	12.26	12.35	12.30	12.40	12.42	12.45
Total Generation	253.66	261.26	265.26	274.30	279.77	287.58	295.32	301.38	307.87	309.92	313.40	318.56	322.08
Sales to Customers	250.43	256.97	259.95	268.99	274.41	282.17	289.86	295.92	302.41	304.56	308.16	313.32	316.85
Generation for Own Use	3.23	4.29	5.31	5.31	5.36	5.41	5.46	5.46	5.46	5.36	5.24	5.24	5.24
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.10	0.13	0.16
<b>Combined Heat and Power</b>													
Coal	0.85	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Petroleum	0.58	0.52	0.56	0.56	0.88	0.95	1.01	1.08	1.17	1.26	1.35	1.40	1.46
Natural Gas	3.26	3.34	3.31	3.40	3.53	3.70	3.82	3.96	4.13	4.31	4.48	4.65	4.79
Other Gaseous Fuels	0.40	0.51	0.62	0.62	0.84	0.89	0.89	0.91	0.94	0.98	1.01	1.04	1.07
Renewable Sources 4/	1.19	1.25	1.28	1.34	1.41	1.46	1.49	1.52	1.56	1.61	1.66	1.72	1.78
Other	0.27	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Total	6.55	6.82	6.96	7.12	7.85	8.18	8.39	8.65	8.99	9.35	9.70	10.00	10.28
Other End Use Generators	0.14	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.21

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	1.10	1.20	1.26	1.35	1.46	1.64	1.78	1.94	2.13	2.34	2.54	2.70	2.85
Generation for Own Use	5.59	5.79	5.88	5.95	6.57	6.72	6.80	6.91	7.06	7.21	7.36	7.50	7.63
Total Electricity Generation	260.35	268.25	272.39	281.60	287.80	295.94	303.90	310.23	317.09	319.54	323.40	328.89	332.73
End-Use Prices (2002 cents per kilowatthour)													
Residential	9.4	9.5	8.7	8.1	8.1	7.6	7.4	7.3	7.6	7.7	8.0	8.3	8.4
Commercial	8.2	7.9	7.4	6.7	6.3	6.0	5.8	5.8	6.1	6.2	6.4	6.8	7.0
Industrial	6.7	6.2	6.3	5.9	5.6	5.5	5.4	5.5	5.5	5.3	5.3	5.5	5.6
Transportation	7.7	7.2	7.5	7.0	6.3	6.0	5.9	5.9	6.1	6.2	6.5	6.7	6.9
All Sectors Average	8.3	8.1	7.7	7.1	6.8	6.5	6.3	6.3	6.5	6.6	6.7	7.0	7.2
Prices by Service Category (2002 cents per kilowatthour)													
Generation	5.5	5.3	4.9	4.2	4.0	3.7	3.5	3.5	3.7	3.7	3.9	4.2	4.4
Transmission	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
Distribution	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.18	1.25	1.26	1.28	1.32	1.38	1.44	1.46	1.48	1.49	1.50	1.50	1.50
Natural Gas	0.19	0.24	0.21	0.25	0.25	0.26	0.27	0.30	0.32	0.35	0.36	0.39	0.41
Oil	0.11	0.07	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.03
Total	1.48	1.57	1.53	1.57	1.61	1.68	1.75	1.80	1.84	1.85	1.87	1.91	1.94
Emissions (million tons) 10/													
Total Carbon	39.98	40.46	39.84	40.58	41.76	43.60	45.48	46.59	47.33	47.52	48.02	48.76	49.27
Carbon Dioxide	146.61	148.35	146.10	148.78	153.14	159.86	166.77	170.82	173.53	174.23	176.08	178.79	180.66
Sulfur Dioxide	1.20	1.29	1.33	1.41	1.21	1.17	1.24	1.35	1.35	1.28	1.24	1.18	1.17
Nitrogen Oxide	0.26	0.24	0.23	0.20	0.21	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	20.37	20.37	20.37	20.37	21.06	21.36	21.90	22.57	22.87	23.13	23.67	24.37	0.8%
Other Fossil Steam 2/	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	0.0%
Combined Cycle	14.57	14.94	14.98	15.47	15.47	15.92	16.07	16.31	16.95	17.54	17.54	17.54	2.8%
Combustion Turbine/Diesel	15.64	15.93	15.93	16.02	16.02	16.02	16.02	16.09	16.21	16.47	16.47	16.47	1.7%
Nuclear Power	13.43	13.43	13.43	13.67	13.67	13.67	13.67	13.67	13.67	13.67	13.67	13.67	0.2%
Pumped Storage/Other 3/	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	N/A
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	N/A
Renewable Sources 4/	2.01	2.01	2.01	2.01	2.01	2.05	2.10	2.15	2.19	2.22	2.22	2.22	0.6%
Distributed Generation 5/	0.57	0.76	0.93	1.09	1.24	1.39	1.54	1.69	1.85	2.02	2.18	2.33	N/A
Total Capacity	76.22	77.07	77.28	78.25	79.10	80.03	80.92	82.11	83.38	84.69	85.38	86.23	1.2%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
Other Fossil 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	N/A
Combined Cycle	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
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	N/A
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	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.69	0.99	1.53	2.20	2.50	2.77	3.30	4.00	N/A
Other Fossil 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	N/A
Combined Cycle	0.87	1.24	1.28	1.77	1.77	2.22	2.37	2.61	3.25	3.84	3.84	3.84	N/A
Combustion Turbine/Diesel	4.71	5.01	5.01	5.10	5.10	5.10	5.10	5.17	5.29	5.55	5.55	5.55	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.02	0.02	0.02	0.02	0.02	0.06	0.11	0.17	0.20	0.23	0.23	0.23	N/A
Distributed Generation 5/	0.57	0.76	0.93	1.09	1.24	1.39	1.54	1.69	1.85	2.02	2.18	2.33	N/A
Total Unplanned Additions	6.18	7.03	7.24	7.97	8.82	9.75	10.64	11.84	13.10	14.41	15.10	15.95	N/A
Cumulative Total Additions	11.83	12.68	12.89	13.62	14.47	15.40	16.29	17.49	18.75	20.06	20.75	21.60	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	N/A
Other Fossil Steam 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
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	N/A
Combustion Turbine/Diesel	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	N/A

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
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	0.0%
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	3.8%
Natural Gas	0.76	0.77	0.80	0.82	0.84	0.87	0.90	0.93	0.95	0.98	1.01	1.05	3.0%
Other Gaseous Fuels	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%
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	3.0%
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	N/A
Total	1.05	1.07	1.09	1.12	1.14	1.17	1.20	1.23	1.26	1.29	1.32	1.35	2.3%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	106.94	107.97	109.19	109.98	111.10	112.31	113.73	114.41	115.53	116.79	118.33	119.19	1.1%
Commercial/Other	153.39	155.62	157.65	159.86	162.17	164.72	167.26	169.81	171.90	174.19	176.55	178.92	1.9%
Industrial	58.80	59.57	60.35	61.27	62.16	62.78	63.49	64.06	64.90	65.71	66.57	67.62	1.4%
Transportation	2.36	2.39	2.43	2.46	2.51	2.55	2.59	2.63	2.68	2.72	2.77	2.81	1.7%
Total Sales	321.48	325.56	329.63	333.58	337.94	342.36	347.06	350.91	355.00	359.40	364.21	368.54	1.5%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	N/A
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	N/A
Gross Interregional Electricity Imports	33.18	31.13	29.82	28.89	28.50	30.03	29.03	27.70	29.80	30.56	28.35	27.62	-0.4%
Gross Interregional Electricity Exports	11.89	10.69	9.16	9.09	9.15	9.90	10.08	10.29	10.80	10.25	8.49	7.56	-3.7%
Purchases from Combined Heat and Power 8	3.00	3.11	3.22	3.34	3.54	3.73	3.94	4.04	4.16	4.27	4.40	4.53	6.0%
Electric Power Sector Generation for Custom	317.73	322.51	326.40	331.25	336.04	339.68	345.56	350.97	353.54	356.70	362.04	366.22	1.6%
Total Net Energy for Load	342.03	346.05	350.29	354.40	358.93	363.54	368.45	372.43	376.70	381.28	386.29	390.81	1.6%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	148.02	148.26	148.59	149.00	154.01	156.31	160.46	165.28	167.43	169.48	173.64	178.64	1.9%
Petroleum	3.61	4.47	4.15	4.09	4.19	3.62	4.00	4.11	3.88	3.38	3.57	3.22	-2.8%
Natural Gas	50.10	53.77	57.65	60.17	59.88	61.77	62.96	63.15	63.63	65.17	66.13	65.75	4.2%
Nuclear	109.37	109.37	109.37	111.38	111.38	111.38	111.38	111.38	111.38	111.38	111.38	111.38	0.2%
Pumped Storage/Other 3/	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	3.1%
Renewable Sources 4/	12.47	12.48	12.47	12.45	12.42	12.44	12.59	12.89	13.06	13.13	13.16	13.07	2.5%
Total Generation	322.97	327.75	331.64	336.49	341.27	344.91	350.80	356.20	358.78	361.94	367.27	371.46	1.5%
Sales to Customers	317.73	322.51	326.40	331.25	336.04	339.68	345.56	350.97	353.54	356.70	362.04	366.22	1.6%
Generation for Own Use	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	0.9%
Distributed Generation 5/	0.25	0.33	0.41	0.48	0.54	0.61	0.67	0.74	0.81	0.88	0.95	1.02	N/A
<b>Combined Heat and Power</b>													
Coal	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%
Petroleum	1.51	1.53	1.55	1.57	1.65	1.73	1.82	1.82	1.83	1.83	1.84	1.84	5.6%
Natural Gas	4.93	5.08	5.24	5.41	5.61	5.82	6.04	6.24	6.45	6.67	6.91	7.16	3.4%
Other Gaseous Fuels	1.09	1.12	1.15	1.18	1.21	1.24	1.27	1.29	1.31	1.33	1.35	1.37	4.3%
Renewable Sources 4/	1.83	1.87	1.92	1.96	2.00	2.04	2.07	2.11	2.14	2.18	2.22	2.26	2.6%
Other	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%
Total	10.56	10.79	11.05	11.31	11.66	12.01	12.38	12.64	12.91	13.20	13.50	13.82	3.1%
Other End Use Generators	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.23	0.24	0.25	0.26	0.27	1.9%

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	3.00	3.11	3.22	3.34	3.54	3.73	3.94	4.04	4.16	4.27	4.40	4.53	6.0%
Generation for Own Use	7.77	7.90	8.03	8.18	8.34	8.50	8.67	8.83	9.00	9.17	9.36	9.56	2.2%
Total Electricity Generation	333.98	339.08	343.30	348.48	353.69	357.75	364.08	369.82	372.74	376.27	381.98	386.57	1.6%
End-Use Prices (2002 cents per kilowatthour)													
Residential	8.6	8.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.6	8.7	8.7	-0.4%
Commercial	7.1	7.3	7.4	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.5	7.5	-0.2%
Industrial	5.8	6.0	6.1	6.1	6.1	6.1	6.1	6.2	6.1	6.0	6.1	6.1	0.0%
Transportation	7.0	7.1	7.2	7.2	7.2	7.1	7.1	7.2	7.1	7.0	7.1	7.1	-0.1%
All Sectors Average	7.4	7.5	7.6	7.6	7.6	7.6	7.6	7.7	7.6	7.5	7.6	7.7	-0.3%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.6	4.7	4.9	4.9	4.9	4.9	4.9	5.0	4.9	4.8	4.9	5.0	-0.3%
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0%
Distribution	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	-0.3%
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.51	1.51	1.51	1.52	1.56	1.58	1.61	1.64	1.66	1.67	1.70	1.74	1.5%
Natural Gas	0.41	0.44	0.47	0.49	0.49	0.50	0.51	0.51	0.50	0.51	0.52	0.52	3.3%
Oil	0.03	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.03	-3.7%
Total	1.95	1.99	2.02	2.04	2.09	2.11	2.15	2.19	2.20	2.22	2.26	2.29	1.7%
Emissions (million tons) 10/													
Total Carbon	49.49	50.15	50.74	51.13	52.36	52.89	53.97	54.93	55.28	55.74	56.75	57.66	1.6%
Carbon Dioxide	181.45	183.89	186.03	187.47	191.97	193.92	197.90	201.40	202.70	204.40	208.10	211.42	1.6%
Sulfur Dioxide	1.16	1.15	1.18	1.18	1.19	1.19	1.20	1.21	1.21	1.21	1.22	1.21	-0.3%
Nitrogen Oxide	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.21	-0.5%

Table 62. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/ (gigawatts)</b>													
Coal Steam	29.55	29.55	29.55	29.55	29.23	29.76	29.67	29.67	29.54	29.54	29.54	29.54	29.54
Other Fossil Steam 2/	3.99	4.00	4.00	4.00	4.00	4.00	4.00	4.00	2.28	0.05	0.03	0.03	0.03
Combined Cycle	1.90	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Combustion Turbine/Diesel	11.98	15.49	15.61	15.61	15.48	15.48	15.48	15.48	15.21	15.21	15.21	15.00	15.00
Nuclear Power	13.67	14.07	14.08	14.08	14.08	14.14	14.14	14.26	14.26	14.26	14.34	14.34	14.34
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/	1.04	1.06	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
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	62.58	68.87	69.06	69.07	68.61	69.19	69.11	69.22	67.10	64.87	64.93	64.72	64.72
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Other Fossil 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	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
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	0.22	0.22	0.22	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.22	0.22	0.22	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.32	0.32	0.41	0.41	0.54	0.54	0.54	0.54	0.54
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	3.95	3.97	3.97	3.97
Combined Cycle	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
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.14	0.40	0.40	0.41	0.62	0.62
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	0.46	0.46	0.54	0.54	2.67	4.90	4.92	5.13	5.13

Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.72	0.74	0.74	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
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	0.18	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.24	0.24	0.25
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/	0.18	0.19	0.19	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29
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	1.09	1.11	1.12	1.13	1.15	1.17	1.18	1.19	1.20	1.22	1.24	1.26	1.27
Other End Use Generators	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	75.33	76.04	76.70	78.56	79.52	80.52	81.78	83.35	84.49	85.79	86.95	88.27	89.08
Commercial/Other	90.72	86.60	86.34	89.57	91.89	93.93	95.60	96.89	97.91	98.80	99.73	100.65	101.71
Industrial	74.63	72.78	72.29	74.26	76.32	78.00	79.63	80.93	82.11	83.44	84.90	86.28	87.67
Transportation	1.50	1.42	1.47	1.50	1.54	1.56	1.58	1.61	1.63	1.65	1.68	1.70	1.73
Total Sales	242.18	236.84	236.79	243.89	249.27	254.01	258.60	262.77	266.14	269.69	273.25	276.90	280.19
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	9.22	6.95	5.40	5.00	4.39	4.17	4.19	3.96	2.51	1.96	1.74	1.36	1.15
Gross Interregional Electricity Exports	46.87	61.14	58.63	58.11	55.45	57.92	61.36	64.87	65.86	65.34	67.08	66.97	66.64
Purchases from Combined Heat and Power 8	0.78	0.84	0.87	0.94	0.99	1.07	1.12	1.18	1.25	1.33	1.41	1.49	1.56
Electric Power Sector Generation for Custom	272.99	283.76	305.16	312.44	315.92	323.40	331.50	339.29	345.05	348.65	354.15	358.03	361.14
Total Net Energy for Load	236.12	230.40	252.80	260.26	265.85	270.71	275.45	279.57	282.96	286.61	290.23	293.91	297.21
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	150.20	156.17	163.28	165.53	168.56	175.12	182.53	187.92	193.35	196.42	199.93	203.47	205.42
Petroleum	2.19	0.86	0.61	0.48	0.43	0.43	0.45	0.47	0.41	0.42	0.43	0.49	0.54
Natural Gas	5.90	13.38	27.79	31.31	31.09	31.42	32.00	33.33	33.54	34.02	35.65	35.89	37.01
Nuclear	112.25	111.70	111.52	112.70	113.18	113.74	113.81	114.82	114.89	114.89	115.23	115.23	115.23
Pumped Storage/Other 3/	-0.27	-0.14	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
Renewable Sources 4/	3.99	3.94	4.88	5.33	5.58	5.61	5.64	5.65	5.70	5.73	5.75	5.78	5.78
Total Generation	274.27	285.90	307.89	315.17	318.65	326.13	334.24	342.03	347.72	351.30	356.81	360.69	363.80
Sales to Customers	272.99	283.76	305.16	312.44	315.92	323.40	331.50	339.29	345.05	348.65	354.15	358.03	361.14
Generation for Own Use	1.27	2.15	2.74	2.74	2.74	2.74	2.74	2.74	2.67	2.66	2.66	2.66	2.66
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
<b>Combined Heat and Power</b>													
Coal	3.37	3.33	3.29	3.29	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
Petroleum	0.10	0.09	0.09	0.09	0.15	0.16	0.17	0.18	0.20	0.21	0.23	0.24	0.24
Natural Gas	1.34	1.37	1.36	1.40	1.45	1.52	1.57	1.62	1.69	1.77	1.84	1.91	1.96
Other Gaseous Fuels	0.07	0.09	0.10	0.10	0.14	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.18
Renewable Sources 4/	1.24	1.29	1.32	1.39	1.46	1.51	1.54	1.58	1.62	1.67	1.72	1.78	1.84
Other	0.35	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Total	6.46	6.62	6.63	6.74	6.96	7.09	7.18	7.29	7.42	7.57	7.72	7.85	7.99
Other End Use Generators	0.14	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.21	0.21	0.21	0.21	0.21

Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.78	0.84	0.87	0.94	0.99	1.07	1.12	1.18	1.25	1.33	1.41	1.49	1.56
Generation for Own Use	5.82	5.96	5.93	5.98	6.15	6.22	6.26	6.31	6.37	6.45	6.51	6.58	6.64
<b>Total Electricity Generation</b>	<b>280.86</b>	<b>292.71</b>	<b>314.70</b>	<b>322.09</b>	<b>325.80</b>	<b>333.41</b>	<b>341.61</b>	<b>349.51</b>	<b>355.34</b>	<b>359.09</b>	<b>364.74</b>	<b>368.75</b>	<b>372.00</b>
<b>End-Use Prices</b> (2002 cents per kilowatthour)													
Residential	8.4	8.1	8.3	8.3	8.2	8.1	7.9	7.9	7.8	7.9	7.9	8.0	8.0
Commercial	6.9	7.0	6.7	6.6	6.4	6.3	6.1	6.1	6.1	6.1	6.2	6.3	6.4
Industrial	4.6	4.6	4.6	4.4	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.2
Transportation	6.2	5.9	6.7	6.5	6.3	6.2	6.1	6.1	6.1	6.2	6.2	6.3	6.3
All Sectors Average	6.5	6.6	6.6	6.5	6.3	6.2	6.1	6.1	6.1	6.1	6.1	6.2	6.2
<b>Prices by Service Category</b> (2002 cents per kilowatthour)													
Generation	4.0	4.0	4.0	3.9	3.7	3.6	3.5	3.5	3.4	3.4	3.4	3.5	3.6
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	0.6
Distribution	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0
<b>Fuel Consumption (quadrillion Btu) 9/</b>													
Coal	1.64	1.68	1.77	1.80	1.83	1.89	1.97	2.03	2.09	2.13	2.18	2.23	2.25
Natural Gas	0.07	0.11	0.30	0.33	0.33	0.33	0.34	0.35	0.34	0.35	0.36	0.36	0.36
Oil	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01
Total	1.74	1.80	2.08	2.14	2.17	2.23	2.31	2.39	2.44	2.48	2.55	2.59	2.63
<b>Emissions (million tons) 10/</b>													
Total Carbon	54.58	56.10	55.67	57.04	57.85	59.57	61.94	63.96	65.62	66.84	68.46	69.78	70.73
Carbon Dioxide	200.13	205.71	204.14	209.15	212.13	218.43	227.12	234.52	240.60	245.09	251.03	255.86	259.34
Sulfur Dioxide	0.90	0.81	0.80	0.81	0.81	0.83	0.86	0.87	0.88	0.88	0.88	0.88	0.86
Nitrogen Oxide	0.35	0.33	0.33	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.35

Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	29.54	29.54	29.54	29.54	29.05	29.05	29.05	28.47	28.47	28.47	28.47	28.77	-0.1%
Other Fossil Steam 2/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-18.9%
Combined Cycle	4.25	4.25	4.25	4.25	4.36	4.55	4.71	5.23	5.29	5.57	5.89	6.47	1.8%
Combustion Turbine/Diesel	15.00	15.00	15.17	15.73	16.71	17.30	17.76	18.72	19.45	20.16	20.45	20.63	1.3%
Nuclear Power	14.34	14.34	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	0.2%
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	N/A
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	N/A
Renewable Sources 4/	1.13	1.13	1.13	1.13	1.22	1.22	1.22	1.24	1.24	1.24	1.24	1.30	0.9%
Distributed Generation 5/	0.04	0.08	0.19	0.30	0.42	0.54	0.67	0.80	0.93	1.08	1.21	1.36	N/A
Total Capacity	64.76	64.79	65.32	66.00	66.81	67.72	68.45	69.51	70.44	71.57	72.31	73.57	0.3%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	N/A
Other Fossil 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	N/A
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	N/A
Combustion Turbine/Diesel	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
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	N/A
Total Planned Additions	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.47	0.47	0.47	0.47	0.77	N/A
Other Fossil 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	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.11	0.31	0.46	0.98	1.05	1.32	1.64	2.22	N/A
Combustion Turbine/Diesel	0.00	0.00	0.17	0.74	1.72	2.31	2.77	3.72	4.46	5.17	5.45	5.63	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.12	0.12	0.12	0.12	0.17	N/A
Distributed Generation 5/	0.04	0.08	0.19	0.30	0.42	0.54	0.67	0.80	0.93	1.08	1.21	1.36	N/A
Total Unplanned Additions	0.04	0.08	0.36	1.04	2.62	3.53	4.26	6.09	7.02	8.15	8.89	10.15	N/A
Cumulative Total Additions	0.79	0.83	1.11	1.79	3.37	4.28	5.01	6.84	7.77	8.90	9.64	10.90	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.54	0.54	0.54	0.54	1.31	1.31	1.31	2.08	2.08	2.08	2.08	2.08	N/A
Other Fossil Steam 3/	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	N/A
Combined Cycle	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Combustion Turbine/Diesel	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	5.13	5.13	5.13	5.13	5.90	5.90	5.90	6.67	6.67	6.67	6.67	6.67	N/A

Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.0%
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	N/A
Natural Gas	0.26	0.26	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.34	0.36	3.0%
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	N/A
Renewable Sources 4/	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.38	3.0%
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	N/A
Total	1.29	1.30	1.32	1.34	1.35	1.37	1.38	1.40	1.42	1.43	1.45	1.47	1.2%
Other End Use Generators	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.10	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	90.18	91.32	92.62	93.50	94.67	95.96	97.44	98.31	99.52	100.81	102.35	103.33	1.3%
Commercial/Other	102.85	104.07	105.21	106.49	107.87	109.37	110.88	112.47	114.21	116.16	118.22	120.41	1.4%
Industrial	88.95	90.28	91.79	93.47	95.10	96.34	97.78	99.05	100.65	102.33	103.98	105.90	1.6%
Transportation	1.75	1.78	1.80	1.83	1.86	1.88	1.91	1.94	1.97	2.00	2.03	2.06	1.6%
Total Sales	283.74	287.45	291.43	295.28	299.49	303.55	308.01	311.77	316.36	321.30	326.57	331.71	1.5%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	N/A
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	N/A
Gross Interregional Electricity Imports	1.06	0.79	0.60	0.42	0.26	0.39	0.50	0.80	1.20	1.47	1.31	1.58	-6.2%
Gross Interregional Electricity Exports	66.17	64.36	64.30	63.00	58.28	54.82	51.55	46.25	40.69	36.78	33.88	34.09	-2.5%
Purchases from Combined Heat and Power 8	1.63	1.68	1.74	1.80	1.88	1.95	2.03	2.08	2.14	2.20	2.27	2.33	4.5%
Electric Power Sector Generation for Custom	363.65	365.76	369.97	372.80	372.57	373.13	374.32	372.59	371.36	372.27	375.29	380.50	1.3%
Total Net Energy for Load	300.17	303.87	308.01	312.03	316.43	320.65	325.30	329.22	334.01	339.16	344.99	350.32	1.8%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	207.67	209.42	210.23	210.78	208.16	207.78	207.83	204.06	203.30	202.74	203.02	205.28	1.2%
Petroleum	0.56	0.58	0.64	0.78	0.73	0.63	0.74	1.25	1.16	1.12	1.44	1.41	2.2%
Natural Gas	37.24	37.57	39.00	41.13	43.34	44.31	45.32	46.81	46.39	47.86	50.29	53.21	6.2%
Nuclear	115.23	115.23	117.16	117.16	117.16	117.16	117.16	117.16	117.16	117.16	117.16	117.16	0.2%
Pumped Storage/Other 3/	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	1.1%
Renewable Sources 4/	5.78	5.79	5.79	5.79	6.02	6.08	6.12	6.15	6.19	6.23	6.23	6.29	2.1%
Total Generation	366.31	368.41	372.63	375.46	375.23	375.78	376.98	375.25	374.02	374.92	377.94	383.16	1.3%
Sales to Customers	363.65	365.76	369.97	372.80	372.57	373.13	374.32	372.59	371.36	372.27	375.29	380.50	1.3%
Generation for Own Use	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	0.9%
Distributed Generation 5/	0.02	0.03	0.08	0.13	0.18	0.24	0.29	0.35	0.41	0.47	0.53	0.60	N/A
<b>Combined Heat and Power</b>													
Coal	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	0.0%
Petroleum	0.25	0.26	0.26	0.26	0.28	0.29	0.30	0.31	0.31	0.31	0.31	0.31	5.6%
Natural Gas	2.02	2.08	2.15	2.22	2.30	2.39	2.48	2.56	2.65	2.73	2.83	2.94	3.4%
Other Gaseous Fuels	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	4.3%
Renewable Sources 4/	1.90	1.94	1.98	2.03	2.08	2.11	2.15	2.18	2.22	2.26	2.30	2.34	2.6%
Other	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.0%
Total	8.12	8.23	8.35	8.47	8.61	8.75	8.90	9.02	9.15	9.28	9.42	9.58	1.6%
Other End Use Generators	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.24	0.25	0.26	0.27	0.28	1.9%

Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	1.63	1.68	1.74	1.80	1.88	1.95	2.03	2.08	2.14	2.20	2.27	2.33	4.5%
Generation for Own Use	6.70	6.76	6.82	6.89	6.96	7.03	7.10	7.18	7.26	7.34	7.43	7.52	1.0%
Total Electricity Generation	374.65	376.89	381.27	384.28	384.25	385.00	386.40	384.86	383.83	384.94	388.17	393.61	1.3%
End-Use Prices (2002 cents per kilowatthour)													
Residential	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.1	8.1	8.0	8.1	8.1	0.0%
Commercial	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.5	6.6	6.6	-0.2%
Industrial	4.3	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.4	4.4	4.5	4.5	-0.1%
Transportation	6.4	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	0.3%
All Sectors Average	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.3	6.4	6.4	-0.1%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	-0.1%
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8%
Distribution	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.7%
Fuel Consumption (quadrillion Btu) 9/													
Coal	2.29	2.31	2.32	2.33	2.26	2.26	2.26	2.19	2.18	2.18	2.18	2.20	1.2%
Natural Gas	0.37	0.37	0.38	0.40	0.42	0.43	0.43	0.44	0.44	0.45	0.47	0.48	6.5%
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	5.9%
Total	2.66	2.69	2.71	2.74	2.69	2.70	2.71	2.64	2.63	2.64	2.66	2.70	1.8%
Emissions (million tons) 10/													
Total Carbon	71.70	72.46	72.97	73.51	71.99	71.99	72.17	70.30	69.99	70.03	70.47	71.33	1.0%
Carbon Dioxide	262.90	265.70	267.57	269.54	263.95	263.95	264.63	257.76	256.64	256.76	258.38	261.53	1.0%
Sulfur Dioxide	0.85	0.81	0.81	0.80	0.77	0.82	0.82	0.78	0.78	0.79	0.79	0.79	-0.1%
Nitrogen Oxide	0.36	0.36	0.36	0.37	0.35	0.35	0.35	0.33	0.33	0.32	0.33	0.33	0.0%

Table 63. Electric Power Projections for EMM Region  
Mid-America Interconnected Network

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	18.67	18.67	18.67	18.67	18.67	18.64	18.64	18.64	18.63	18.63	18.63	18.63	18.63
Other Fossil Steam 2/	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
Combined Cycle	0.61	0.76	0.76	0.76	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Combustion Turbine/Diesel	6.17	6.66	7.40	7.49	7.49	7.49	7.56	8.20	8.74	9.24	9.65	9.82	10.17
Nuclear Power	3.32	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34
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/	4.07	4.32	4.64	4.66	4.69	4.87	5.25	5.29	5.33	5.47	5.47	5.47	5.47
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.05	0.06	0.08	0.09	0.12
Total Capacity	33.39	34.30	35.37	35.47	35.73	35.88	36.35	37.04	37.63	38.28	38.70	38.88	39.26
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Combustion Turbine/Diesel	0.00	0.00	0.75	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
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	0.33	0.34	0.37	0.55	0.94	0.95	0.97	1.09	1.09	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	1.08	1.13	1.38	1.56	1.94	1.96	1.97	2.09	2.09	2.09	2.09
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.04	0.04	0.04	0.12	0.76	1.36	1.86	2.27	2.44	2.80
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	0.02	0.04	0.06	0.06	0.06	0.06
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.05	0.06	0.08	0.09	0.12
Total Unplanned Additions	0.00	0.00	0.00	0.04	0.06	0.06	0.14	0.82	1.45	1.99	2.41	2.59	2.97
Cumulative Total Additions	0.00	0.00	1.08	1.18	1.43	1.61	2.08	2.78	3.43	4.08	4.50	4.68	5.06
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Fossil 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	0.07	0.07	0.07	0.07	0.07
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	0.03	0.03	0.03	0.10	0.10	0.10	0.10	0.10



Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
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	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07
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/	0.13	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.19	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	0.72	0.74	0.74	0.75	0.76	0.77	0.77	0.78	0.78	0.79	0.80	0.81	0.82
Other End Use Generators	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	50.43	57.12	55.72	56.51	57.03	57.78	58.67	59.69	60.36	61.18	62.04	63.08	63.70
Commercial/Other	37.38	40.40	39.37	40.72	41.93	43.04	44.01	44.84	45.57	46.27	47.06	47.88	48.74
Industrial	53.87	59.90	56.77	58.31	59.94	61.25	62.53	63.54	64.48	65.53	66.68	67.75	68.83
Transportation	0.89	0.96	0.95	0.97	1.00	1.01	1.03	1.05	1.06	1.08	1.10	1.11	1.13
Total Sales	142.57	158.37	152.80	156.52	159.90	163.08	166.24	169.12	171.47	174.06	176.87	179.82	182.41
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	10.39	8.00	11.61	11.68	11.00	7.82	7.53	7.44	8.04	8.43	8.96	8.99	9.00
Gross International Exports	1.54	3.34	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	5.24	7.02	4.56	3.73	4.42	4.71	5.49	7.96	7.25	7.69	9.14	9.64	11.13
Gross Interregional Electricity Exports	19.46	12.63	16.29	16.17	17.63	16.61	18.98	19.85	17.98	17.28	16.80	15.27	14.53
Purchases from Combined Heat and Power 8	0.53	0.58	0.60	0.66	0.71	0.75	0.79	0.82	0.86	0.91	0.97	1.02	1.07
Electric Power Sector Generation for Custom	160.22	171.66	165.67	170.20	175.16	180.28	185.45	186.78	187.38	188.51	189.06	189.98	190.32
Total Net Energy for Load	155.38	171.29	166.16	170.10	173.66	176.96	180.27	183.15	185.55	188.26	191.33	194.35	196.98
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	122.49	128.67	120.47	122.23	126.90	131.37	135.23	135.78	136.35	136.61	136.70	136.67	136.74
Petroleum	0.82	0.75	0.27	0.28	0.31	0.31	0.32	0.34	0.25	0.25	0.27	0.38	0.60
Natural Gas	1.99	2.12	1.09	1.36	1.40	1.44	1.50	1.83	1.80	2.25	2.58	3.42	3.47
Nuclear	24.37	28.38	26.93	27.28	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39
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
Renewable Sources 4/	10.87	12.97	17.38	19.51	19.63	20.25	21.49	21.94	22.07	22.48	22.59	22.59	22.59
Total Generation	160.53	172.89	166.12	170.66	175.63	180.77	185.94	187.27	187.85	188.98	189.54	190.45	190.80
Sales to Customers	160.22	171.66	165.67	170.20	175.16	180.28	185.45	186.78	187.38	188.51	189.06	189.98	190.32
Generation for Own Use	0.31	1.23	0.45	0.46	0.46	0.48	0.49	0.49	0.47	0.47	0.47	0.47	0.47
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.05
<b>Combined Heat and Power</b>													
Coal	3.00	2.96	2.93	2.93	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
Petroleum	0.04	0.04	0.04	0.04	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11
Natural Gas	0.44	0.45	0.44	0.46	0.47	0.50	0.51	0.53	0.55	0.58	0.60	0.62	0.64
Other Gaseous Fuels	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08
Renewable Sources 4/	1.31	1.37	1.40	1.47	1.55	1.60	1.63	1.67	1.71	1.77	1.82	1.89	1.95
Other	0.12	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	4.93	5.01	5.01	5.10	5.24	5.32	5.37	5.43	5.51	5.60	5.69	5.78	5.87
Other End Use Generators	0.15	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23

Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.53	0.58	0.60	0.66	0.71	0.75	0.79	0.82	0.86	0.91	0.97	1.02	1.07
Generation for Own Use	4.55	4.62	4.60	4.64	4.73	4.77	4.79	4.82	4.86	4.91	4.95	4.99	5.03
Total Electricity Generation	165.62	178.08	171.33	175.96	181.06	186.29	191.53	192.93	193.60	194.83	195.48	196.49	196.94
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.6	7.5	7.0	7.0	7.0	6.9	6.7	6.8	6.8	6.9	6.7	6.7	6.8
Commercial	6.1	6.0	5.5	5.4	5.4	5.3	5.2	5.2	5.3	5.4	5.2	5.2	5.3
Industrial	4.3	4.1	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.8	3.7	3.7	3.7
Transportation	5.6	5.5	5.6	5.5	5.5	5.4	5.3	5.3	5.4	5.4	5.3	5.3	5.3
All Sectors Average	6.0	5.9	5.4	5.4	5.4	5.3	5.2	5.2	5.2	5.3	5.2	5.1	5.2
Prices by Service Category (2002 cents per kilowatthour)													
Generation	3.3	3.2	2.8	2.8	2.8	2.7	2.6	2.6	2.7	2.7	2.6	2.6	2.6
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9
Distribution	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.33	1.36	1.29	1.31	1.36	1.41	1.45	1.46	1.47	1.47	1.47	1.47	1.47
Natural Gas	0.02	0.03	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
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	0.01
Total	1.36	1.39	1.30	1.33	1.38	1.43	1.47	1.48	1.49	1.50	1.50	1.51	1.51
Emissions (million tons) 10/													
Total Carbon	36.53	37.73	37.50	38.13	39.61	41.05	42.34	42.58	42.76	42.93	43.03	43.15	43.24
Carbon Dioxide	133.94	138.34	137.49	139.80	145.25	150.52	155.25	156.11	156.80	157.41	157.79	158.22	158.55
Sulfur Dioxide	0.35	0.34	0.35	0.36	0.37	0.38	0.40	0.40	0.40	0.40	0.39	0.37	0.37
Nitrogen Oxide	0.31	0.28	0.26	0.26	0.27	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29

Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	18.63	18.63	18.66	18.94	19.57	20.68	21.58	22.47	22.99	23.64	23.91	23.91	1.1%
Other Fossil Steam 2/	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.43	-1.2%
Combined Cycle	0.97	0.97	0.97	0.97	0.97	0.97	1.18	1.18	1.18	1.18	1.18	1.18	1.9%
Combustion Turbine/Diesel	10.72	11.35	11.76	12.01	12.01	11.60	10.99	10.95	12.02	12.02	12.02	12.02	2.6%
Nuclear Power	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	N/A
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	N/A
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	N/A
Renewable Sources 4/	5.50	5.54	5.59	5.59	5.59	5.59	5.61	5.61	5.61	5.61	5.61	5.61	1.1%
Distributed Generation 5/	0.14	0.17	0.20	0.23	0.26	0.29	0.38	0.48	0.53	0.56	0.59	0.59	N/A
<b>Total Capacity</b>	<b>39.87</b>	<b>40.57</b>	<b>41.08</b>	<b>41.64</b>	<b>42.29</b>	<b>43.03</b>	<b>43.64</b>	<b>44.59</b>	<b>46.23</b>	<b>46.91</b>	<b>47.22</b>	<b>47.08</b>	<b>1.4%</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	N/A
Combustion Turbine/Diesel	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	N/A
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	N/A
<b>Total Planned Additions</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>2.09</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.02	0.30	0.93	2.05	2.95	3.83	4.36	5.01	5.28	5.28	N/A
Other Fossil 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	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	N/A
Combustion Turbine/Diesel	3.34	4.08	4.49	4.75	4.75	4.75	5.45	6.47	7.54	7.54	7.54	7.54	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.10	0.14	0.18	0.18	0.18	0.18	0.21	0.21	0.21	0.21	0.21	0.21	N/A
Distributed Generation 5/	0.14	0.17	0.20	0.23	0.26	0.29	0.38	0.48	0.53	0.56	0.59	0.59	N/A
<b>Total Unplanned Additions</b>	<b>3.58</b>	<b>4.40</b>	<b>4.90</b>	<b>5.46</b>	<b>6.12</b>	<b>7.27</b>	<b>9.19</b>	<b>11.20</b>	<b>12.84</b>	<b>13.52</b>	<b>13.82</b>	<b>13.82</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>5.67</b>	<b>6.49</b>	<b>6.99</b>	<b>7.55</b>	<b>8.21</b>	<b>9.36</b>	<b>11.28</b>	<b>13.29</b>	<b>14.93</b>	<b>15.61</b>	<b>15.91</b>	<b>15.91</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	N/A
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	N/A
Combustion Turbine/Diesel	0.07	0.18	0.18	0.18	0.18	0.59	1.90	2.96	2.96	2.96	2.96	2.96	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Total</b>	<b>0.10</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.62</b>	<b>1.94</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.13</b>	<b>N/A</b>

Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.0%
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	N/A
Natural Gas	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	3.0%
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	N/A
Renewable Sources 4/	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	3.0%
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	N/A
Total	0.83	0.84	0.85	0.85	0.86	0.87	0.88	0.88	0.89	0.90	0.91	0.92	0.9%
Other End Use Generators	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	64.47	65.26	66.19	66.79	67.57	68.41	69.39	69.91	70.65	71.46	72.51	73.20	1.1%
Commercial/Other	49.58	50.48	51.37	52.30	53.26	54.21	55.08	55.87	56.64	57.39	58.08	58.73	1.6%
Industrial	69.84	70.87	72.06	73.37	74.66	75.62	76.75	77.74	79.00	80.31	81.59	83.10	1.4%
Transportation	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.29	1.31	1.33	1.35	1.38	1.6%
Total Sales	185.03	187.78	190.80	193.67	196.71	199.49	202.50	204.81	207.60	210.49	213.55	216.40	1.4%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	8.78	8.71	8.51	7.92	7.54	6.82	6.18	5.68	5.51	5.18	4.91	4.69	-2.3%
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	N/A
Gross Interregional Electricity Imports	11.31	12.16	13.34	13.13	11.10	8.38	6.10	4.88	5.16	5.17	5.12	6.10	-0.6%
Gross Interregional Electricity Exports	12.56	11.58	10.32	8.87	7.98	9.69	11.14	13.12	13.76	14.40	13.78	12.34	-0.1%
Purchases from Combined Heat and Power 8	1.11	1.15	1.19	1.23	1.27	1.31	1.35	1.39	1.42	1.46	1.49	1.53	4.3%
Electric Power Sector Generation for Custom	191.12	192.13	193.08	195.44	200.17	208.25	215.77	221.86	225.33	229.34	232.27	233.09	1.3%
Total Net Energy for Load	199.78	202.57	205.80	208.85	212.10	215.08	218.26	220.70	223.66	226.75	230.01	233.08	1.3%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	136.85	136.88	137.10	139.12	143.82	152.08	158.61	165.08	168.88	173.54	175.54	175.53	1.4%
Petroleum	0.80	1.03	1.13	1.13	0.86	0.63	0.65	0.96	1.07	0.86	1.12	1.14	1.8%
Natural Gas	3.85	4.43	4.91	5.25	5.56	5.61	6.52	5.85	5.41	4.95	5.63	6.50	5.0%
Nuclear	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	-0.2%
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	N/A
Renewable Sources 4/	22.71	22.86	23.02	23.02	23.02	23.02	23.07	23.06	23.06	23.06	23.06	23.04	2.5%
Total Generation	191.60	192.60	193.55	195.92	200.65	208.72	216.24	222.34	225.81	229.81	232.74	233.60	1.3%
Sales to Customers	191.12	192.13	193.08	195.44	200.17	208.25	215.77	221.86	225.33	229.34	232.27	233.09	1.3%
Generation for Own Use	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.51	-3.8%
Distributed Generation 5/	0.06	0.08	0.09	0.10	0.11	0.13	0.17	0.21	0.23	0.25	0.26	0.26	N/A
<b>Combined Heat and Power</b>													
Coal	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	0.0%
Petroleum	0.11	0.11	0.11	0.11	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	5.6%
Natural Gas	0.66	0.68	0.70	0.73	0.75	0.78	0.81	0.84	0.87	0.89	0.93	0.96	3.4%
Other Gaseous Fuels	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	4.3%
Renewable Sources 4/	2.01	2.05	2.10	2.15	2.20	2.23	2.27	2.31	2.35	2.39	2.43	2.48	2.6%
Other	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	5.95	6.02	6.09	6.17	6.25	6.32	6.40	6.46	6.53	6.61	6.68	6.77	1.3%
Other End Use Generators	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.25	0.26	0.27	0.29	0.30	1.9%

Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Sales to Utilities	1.11	1.15	1.19	1.23	1.27	1.31	1.35	1.39	1.42	1.46	1.49	1.53	4.3%
Generation for Own Use	5.07	5.10	5.13	5.17	5.21	5.25	5.29	5.33	5.38	5.42	5.47	5.53	0.8%
Total Electricity Generation	197.84	198.93	199.96	202.41	207.24	215.41	223.05	229.26	232.84	236.94	239.97	240.92	1.3%
End-Use Prices (2002 cents per kilowatthour)													
Residential	6.8	6.8	6.8	6.8	6.9	6.9	7.0	7.1	7.2	7.2	7.2	7.2	-0.2%
Commercial	5.3	5.3	5.3	5.3	5.4	5.4	5.5	5.5	5.6	5.7	5.7	5.6	-0.3%
Industrial	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	-0.2%
Transportation	5.4	5.4	5.3	5.4	5.4	5.4	5.4	5.5	5.6	5.6	5.6	5.6	0.0%
All Sectors Average	5.2	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.5	5.5	-0.3%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	2.7	2.7	2.7	2.8	2.8	2.8	2.9	3.0	3.0	3.1	3.1	3.1	-0.1%
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	1.0%
Distribution	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	-1.1%
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.47	1.47	1.48	1.49	1.53	1.60	1.66	1.72	1.75	1.79	1.80	1.80	1.2%
Natural Gas	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.04	0.05	0.06	3.6%
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	7.4%
Total	1.52	1.53	1.53	1.55	1.59	1.66	1.72	1.78	1.81	1.84	1.86	1.87	1.3%
Emissions (million tons) 10/													
Total Carbon	43.38	43.53	43.68	44.22	45.38	47.39	49.08	50.64	51.53	52.58	53.21	53.32	1.5%
Carbon Dioxide	159.06	159.61	160.17	162.16	166.40	173.77	179.97	185.68	188.95	192.78	195.09	195.51	1.5%
Sulfur Dioxide	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.3%
Nitrogen Oxide	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.4%

Table 64. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	3.74	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
Other Fossil Steam 2/	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	11.33	10.43	10.43	10.43	10.13
Combined Cycle	3.94	3.94	5.19	5.19	5.19	5.19	5.19	5.19	5.19	6.07	6.44	6.45	6.98
Combustion Turbine/Diesel	4.09	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.52	4.52	4.52	4.52	4.52
Nuclear Power	5.05	5.05	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07
Pumped Storage/Other 3/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
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/	4.67	4.82	4.89	4.97	5.04	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
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	35.21	35.98	37.33	37.40	37.48	37.62	37.62	37.62	36.33	36.30	36.68	36.68	36.92
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
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 Planned Additions	0.00	0.00	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.88	1.26	1.26	1.79
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	0.88	1.26	1.26	1.79
Cumulative Total Additions	0.00	0.00	1.26	1.26	1.26	1.26	1.26	1.26	1.26	2.13	2.51	2.51	3.05
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	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 Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	2.01	2.01	2.01	2.31
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	0.18	0.18	0.18	0.18	0.18
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	1.29	2.19	2.19	2.19	2.49

Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	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
Petroleum	0.21	0.21	0.21	0.21	0.26	0.29	0.29	0.31	0.33	0.35	0.38	0.39	0.40
Natural Gas	0.24	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34
Other Gaseous Fuels	0.35	0.39	0.39	0.39	0.45	0.47	0.47	0.47	0.48	0.49	0.50	0.51	0.52
Renewable Sources 4/	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
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
Total	0.99	1.04	1.04	1.04	1.16	1.22	1.23	1.26	1.30	1.34	1.39	1.42	1.45
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	46.68	48.93	47.82	48.43	48.95	49.63	50.32	51.05	51.25	51.49	51.60	51.82	51.80
Commercial/Other	70.38	70.69	67.96	70.49	73.13	75.53	77.48	79.23	80.55	82.01	83.34	84.53	85.69
Industrial	24.48	24.18	22.97	23.56	24.04	24.46	24.86	25.14	25.48	25.84	26.23	26.60	27.02
Transportation	1.28	1.29	1.27	1.30	1.33	1.35	1.36	1.38	1.40	1.42	1.43	1.45	1.47
Total Sales	142.82	145.08	140.02	143.78	147.45	150.96	154.02	156.80	158.68	160.75	162.62	164.40	165.98
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	11.85	13.90	16.24	15.70	18.25	18.34	18.34	19.13	19.38	19.72	19.84	19.25	18.28
Gross International Exports	4.08	2.95	1.49	1.50	1.51	1.52	1.53	1.54	1.56	1.57	1.56	1.56	1.56
Gross Interregional Electricity Imports	13.35	16.91	12.83	13.86	13.37	14.64	16.73	17.25	17.68	13.61	11.72	11.99	10.74
Gross Interregional Electricity Exports	8.49	8.32	7.38	12.22	12.34	12.32	13.15	12.13	11.53	11.52	10.96	9.58	9.30
Purchases from Combined Heat and Power 8	0.63	0.70	0.74	0.82	0.92	1.03	1.11	1.21	1.32	1.45	1.57	1.68	1.78
Electric Power Sector Generation for Custom	140.06	138.39	129.24	137.49	139.40	141.55	143.40	143.86	144.38	150.12	153.10	153.74	157.12
Total Net Energy for Load	153.33	158.63	150.19	154.16	158.09	161.73	164.91	167.77	169.67	171.81	173.71	175.51	177.06
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	22.59	24.76	23.56	23.22	23.78	24.96	26.16	26.24	26.29	26.18	26.23	26.05	26.23
Petroleum	16.29	11.60	9.78	8.15	11.06	10.29	10.35	10.74	10.37	10.36	10.84	11.21	11.34
Natural Gas	37.58	37.01	36.37	40.96	38.39	39.33	39.69	39.67	40.36	46.07	48.53	48.86	52.09
Nuclear	40.39	39.62	34.95	39.77	40.00	40.07	40.14	40.21	40.28	40.35	40.42	40.43	40.43
Pumped Storage/Other 3/	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
Renewable Sources 4/	25.20	27.38	27.79	28.61	29.40	30.12	30.29	30.23	30.24	30.31	30.24	30.35	30.19
Total Generation	141.12	139.45	131.53	139.80	141.70	143.86	145.71	146.17	146.61	152.35	155.34	155.98	159.36
Sales to Customers	140.06	138.39	129.24	137.49	139.40	141.55	143.40	143.86	144.38	150.12	153.10	153.74	157.12
Generation for Own Use	1.05	1.07	2.29	2.30	2.31	2.31	2.31	2.31	2.23	2.23	2.23	2.23	2.23
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
<b>Combined Heat and Power</b>													
Coal	0.80	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Petroleum	0.34	0.31	0.33	0.33	0.51	0.56	0.59	0.63	0.69	0.74	0.79	0.82	0.85
Natural Gas	1.20	1.22	1.22	1.25	1.30	1.36	1.40	1.45	1.52	1.58	1.65	1.71	1.76
Other Gaseous Fuels	0.23	0.30	0.37	0.37	0.49	0.52	0.52	0.53	0.55	0.57	0.59	0.61	0.63
Renewable Sources 4/	1.66	1.73	1.77	1.87	1.96	2.02	2.07	2.11	2.16	2.23	2.31	2.39	2.47
Other	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
Total	4.29	4.43	4.54	4.67	5.13	5.32	5.44	5.59	5.78	5.99	6.20	6.39	6.57
Other End Use Generators	0.19	0.24	0.24	0.25	0.25	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29



Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.63	0.70	0.74	0.82	0.92	1.03	1.11	1.21	1.32	1.45	1.57	1.68	1.78
Generation for Own Use	3.84	3.97	4.04	4.10	4.46	4.55	4.59	4.65	4.74	4.83	4.91	5.00	5.08
<b>Total Electricity Generation</b>	<b>145.59</b>	<b>144.13</b>	<b>136.32</b>	<b>144.72</b>	<b>147.08</b>	<b>149.44</b>	<b>151.42</b>	<b>152.03</b>	<b>152.67</b>	<b>158.63</b>	<b>161.83</b>	<b>162.65</b>	<b>166.21</b>
<b>End-Use Prices</b> (2002 cents per kilowatthour)													
Residential	14.2	13.5	13.7	12.9	12.3	11.8	11.4	11.3	11.6	11.7	11.9	12.3	12.4
Commercial	13.1	12.4	10.5	9.8	9.2	8.8	8.4	8.3	8.6	8.7	8.8	9.2	9.4
Industrial	5.6	5.2	5.3	4.9	4.7	4.6	4.6	4.8	5.0	5.0	5.1	5.4	5.6
Transportation	10.9	9.7	10.3	9.5	8.9	8.6	8.3	8.3	8.5	8.6	8.8	9.1	9.3
All Sectors Average	11.7	11.3	10.7	10.0	9.5	9.1	8.8	8.7	9.0	9.0	9.2	9.5	9.7
<b>Prices by Service Category</b> (2002 cents per kilowatthour)													
Generation	7.0	6.4	5.8	5.1	4.5	4.2	3.9	3.8	4.0	4.1	4.3	4.6	4.8
Transmission	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Distribution	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
<b>Fuel Consumption (quadrillion Btu) 9/</b>													
Coal	0.24	0.26	0.24	0.24	0.24	0.25	0.27	0.27	0.27	0.27	0.27	0.26	0.27
Natural Gas	0.36	0.37	0.35	0.39	0.36	0.37	0.37	0.37	0.37	0.41	0.42	0.42	0.44
Oil	0.18	0.13	0.11	0.09	0.12	0.11	0.11	0.12	0.11	0.11	0.12	0.12	0.12
Total	0.78	0.76	0.69	0.71	0.72	0.73	0.75	0.75	0.75	0.79	0.81	0.81	0.83
<b>Emissions (million tons) 10/</b>													
Total Carbon	16.11	14.85	14.72	14.82	15.27	15.57	15.98	16.10	16.06	16.62	16.99	17.06	17.46
Carbon Dioxide	59.07	54.46	53.97	54.32	55.98	57.09	58.60	59.02	58.89	60.96	62.30	62.55	64.02
Sulfur Dioxide	0.30	0.30	0.29	0.28	0.27	0.27	0.28	0.30	0.30	0.29	0.29	0.29	0.29
Nitrogen Oxide	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07

Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	4.32	4.80	5.62	6.29	2.3%
Other Fossil Steam 2/	10.13	10.00	10.00	10.00	10.00	10.00	10.00	9.45	8.93	8.93	8.55	7.73	-2.1%
Combined Cycle	7.38	7.79	8.06	8.31	8.50	8.76	8.78	9.32	9.32	9.32	9.32	9.32	3.8%
Combustion Turbine/Diesel	4.52	4.52	4.52	4.52	4.52	4.24	4.24	4.24	4.24	4.24	4.24	3.96	-0.7%
Nuclear Power	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	0.0%
Pumped Storage/Other 3/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	N/A
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	N/A
Renewable Sources 4/	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.21	5.21	5.21	5.21	5.21	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	N/A
<b>Total Capacity</b>	<b>37.32</b>	<b>37.60</b>	<b>37.86</b>	<b>38.12</b>	<b>38.30</b>	<b>38.29</b>	<b>38.31</b>	<b>38.32</b>	<b>38.38</b>	<b>38.86</b>	<b>39.30</b>	<b>38.86</b>	<b>0.3%</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Total Planned Additions</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>1.26</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	1.05	1.87	2.54	N/A
Other Fossil 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	N/A
Combined Cycle	2.19	2.60	2.87	3.12	3.31	3.57	3.59	4.13	4.13	4.13	4.13	4.13	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	N/A
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	N/A
<b>Total Unplanned Additions</b>	<b>2.19</b>	<b>2.60</b>	<b>2.87</b>	<b>3.12</b>	<b>3.31</b>	<b>3.57</b>	<b>3.59</b>	<b>4.16</b>	<b>4.73</b>	<b>5.21</b>	<b>6.03</b>	<b>6.70</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>3.45</b>	<b>3.86</b>	<b>4.13</b>	<b>4.38</b>	<b>4.56</b>	<b>4.83</b>	<b>4.85</b>	<b>5.42</b>	<b>5.99</b>	<b>6.47</b>	<b>7.28</b>	<b>7.96</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	2.31	2.44	2.44	2.44	2.44	2.44	2.44	3.00	3.51	3.51	3.89	4.72	N/A
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	N/A
Combustion Turbine/Diesel	0.18	0.18	0.18	0.18	0.18	0.46	0.46	0.46	0.46	0.46	0.46	0.74	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Total</b>	<b>2.49</b>	<b>2.62</b>	<b>2.62</b>	<b>2.62</b>	<b>2.62</b>	<b>2.90</b>	<b>2.90</b>	<b>3.46</b>	<b>3.97</b>	<b>3.97</b>	<b>4.35</b>	<b>5.46</b>	<b>N/A</b>

Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
Petroleum	0.42	0.42	0.43	0.43	0.45	0.47	0.50	0.50	0.50	0.50	0.50	0.50	3.8%
Natural Gas	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.45	0.46	0.48	3.0%
Other Gaseous Fuels	0.52	0.53	0.54	0.55	0.55	0.56	0.57	0.57	0.58	0.59	0.59	0.60	1.8%
Renewable Sources 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	3.0%
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	N/A
Total	1.48	1.50	1.52	1.55	1.59	1.63	1.67	1.69	1.71	1.73	1.75	1.77	2.4%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	52.01	52.31	52.69	52.87	53.22	53.62	54.11	54.24	54.59	55.03	55.58	55.80	0.6%
Commercial/Other	86.67	87.42	87.84	88.07	88.12	88.32	88.73	89.45	90.03	90.85	91.54	91.82	1.1%
Industrial	27.37	27.71	28.05	28.44	28.82	29.07	29.37	29.60	29.96	30.29	30.65	31.10	1.1%
Transportation	1.49	1.51	1.53	1.55	1.57	1.60	1.62	1.64	1.66	1.69	1.71	1.74	1.3%
Total Sales	167.55	168.95	170.11	170.93	171.73	172.61	173.82	174.93	176.25	177.85	179.49	180.46	1.0%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	17.24	18.21	17.76	17.52	16.63	14.76	12.67	9.85	7.43	5.97	5.02	4.68	-4.6%
Gross International Exports	1.56	1.56	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	-2.8%
Gross Interregional Electricity Imports	10.54	7.96	6.75	6.49	6.62	7.61	8.38	9.09	10.32	10.56	9.12	6.97	-3.8%
Gross Interregional Electricity Exports	8.83	8.97	8.71	8.79	8.81	8.73	7.46	7.07	7.55	7.53	8.47	9.22	0.4%
Purchases from Combined Heat and Power 8	1.88	1.94	2.02	2.09	2.21	2.31	2.43	2.49	2.55	2.62	2.69	2.76	6.1%
Electric Power Sector Generation for Custom	159.46	162.52	165.07	166.46	167.98	169.60	170.82	173.65	176.67	179.52	184.52	188.70	1.4%
Total Net Energy for Load	178.72	180.11	181.34	182.22	183.07	184.00	185.29	186.47	187.88	189.58	191.32	192.35	0.8%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	26.22	26.28	26.31	26.30	26.30	26.31	26.31	26.34	30.66	34.17	40.20	45.23	2.7%
Petroleum	11.79	12.74	11.69	11.92	11.95	11.53	12.03	11.61	11.31	11.27	10.84	10.75	-0.3%
Natural Gas	53.97	56.04	59.61	60.77	62.27	64.29	65.02	68.12	67.09	66.44	65.86	65.10	2.5%
Nuclear	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	0.1%
Pumped Storage/Other 3/	-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%
Renewable Sources 4/	30.19	30.19	30.20	30.20	30.19	30.19	30.19	30.31	30.35	30.37	30.36	30.35	0.4%
Total Generation	161.69	164.76	167.31	168.70	170.21	171.83	173.06	175.89	178.90	181.75	186.75	190.94	1.4%
Sales to Customers	159.46	162.52	165.07	166.46	167.98	169.60	170.82	173.65	176.67	179.52	184.52	188.70	1.4%
Generation for Own Use	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	3.3%
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	N/A
<b>Combined Heat and Power</b>													
Coal	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%
Petroleum	0.88	0.90	0.91	0.92	0.97	1.02	1.07	1.07	1.07	1.07	1.08	1.08	5.6%
Natural Gas	1.81	1.86	1.93	1.99	2.06	2.14	2.22	2.29	2.37	2.45	2.53	2.63	3.4%
Other Gaseous Fuels	0.64	0.66	0.68	0.69	0.71	0.73	0.74	0.76	0.77	0.78	0.79	0.80	4.3%
Renewable Sources 4/	2.54	2.60	2.66	2.72	2.78	2.83	2.87	2.92	2.97	3.03	3.08	3.14	2.6%
Other	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%
Total	6.74	6.88	7.03	7.18	7.38	7.57	7.76	7.90	8.04	8.19	8.35	8.51	2.9%
Other End Use Generators	0.29	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.35	0.36	0.38	1.9%

Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	1.88	1.94	2.02	2.09	2.21	2.31	2.43	2.49	2.55	2.62	2.69	2.76	6.1%
Generation for Own Use	5.16	5.23	5.30	5.38	5.47	5.55	5.65	5.73	5.82	5.92	6.02	6.13	1.9%
<b>Total Electricity Generation</b>	<b>168.72</b>	<b>171.93</b>	<b>174.63</b>	<b>176.17</b>	<b>177.89</b>	<b>179.70</b>	<b>181.13</b>	<b>184.11</b>	<b>187.28</b>	<b>190.29</b>	<b>195.46</b>	<b>199.82</b>	<b>1.4%</b>
<b>End-Use Prices</b> (2002 cents per kilowatthour)													
Residential	12.5	12.5	12.6	12.6	12.6	12.6	12.7	12.8	12.8	12.7	12.7	12.8	-0.2%
Commercial	9.5	9.6	9.7	9.7	9.7	9.7	9.8	10.0	10.1	10.0	10.0	10.3	-0.8%
Industrial	5.7	5.8	5.8	5.8	5.8	5.8	5.9	6.0	6.0	6.0	6.0	6.1	0.7%
Transportation	9.3	9.3	9.4	9.3	9.3	9.3	9.4	9.4	9.4	9.3	9.3	9.4	-0.1%
All Sectors Average	9.8	9.9	10.0	9.9	9.9	9.9	10.0	10.2	10.2	10.1	10.2	10.3	-0.4%
<b>Prices by Service Category</b> (2002 cents per kilowatthour)													
Generation	4.9	5.0	5.0	5.0	5.0	5.0	5.1	5.3	5.3	5.2	5.3	5.4	-0.7%
Transmission	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.1%
Distribution	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.1%
<b>Fuel Consumption (quadrillion Btu) 9/</b>													
Coal	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.30	0.33	0.38	0.42	2.1%
Natural Gas	0.45	0.47	0.49	0.50	0.51	0.52	0.53	0.54	0.53	0.53	0.52	0.52	1.4%
Oil	0.13	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	-0.4%
Total	0.85	0.87	0.89	0.89	0.90	0.91	0.92	0.94	0.96	0.99	1.02	1.05	1.4%
<b>Emissions (million tons) 10/</b>													
Total Carbon	17.73	18.09	18.31	18.46	18.64	18.76	18.96	19.13	19.94	20.70	21.74	22.72	1.9%
Carbon Dioxide	64.99	66.34	67.14	67.68	68.34	68.77	69.53	70.14	73.12	75.90	79.71	83.31	1.9%
Sulfur Dioxide	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.29	0.30	0.30	0.30	0.30	0.1%
Nitrogen Oxide	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.6%

Table 65. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New York

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.93	2.93	2.93	2.93	2.93
Other Fossil Steam 2/	7.82	7.82	7.82	7.82	7.82	7.82	7.82	7.82	6.75	6.75	6.75	6.75	6.75
Combined Cycle	6.95	9.70	9.91	9.91	9.91	9.91	9.91	9.91	9.91	9.76	10.21	10.32	10.51
Combustion Turbine/Diesel	1.96	2.98	2.99	2.99	2.99	2.99	2.99	2.99	2.73	2.73	2.73	2.73	2.73
Nuclear Power	4.35	4.34	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
Pumped Storage/Other 3/	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
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.05	0.05	0.05	0.05
Renewable Sources 4/	2.80	2.80	2.83	2.89	2.91	2.92	2.95	3.01	3.07	3.10	3.20	3.20	3.22
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 Capacity	28.53	32.30	32.56	32.63	32.64	32.65	32.70	32.78	31.51	31.39	31.94	32.04	32.25
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
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	0.02	0.03	0.05	0.05	0.05	0.05	0.05
Renewable Sources 4/	0.00	0.00	0.03	0.10	0.11	0.12	0.15	0.21	0.28	0.28	0.28	0.28	0.28
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	0.25	0.31	0.32	0.33	0.38	0.46	0.54	0.54	0.54	0.54	0.54
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.01	0.46	0.56	0.75
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	0.02	0.12	0.12	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	0.00	0.00	0.00	0.03	0.58	0.68	0.89
Cumulative Total Additions	0.00	0.00	0.25	0.31	0.32	0.33	0.38	0.46	0.54	0.57	1.12	1.22	1.43
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	1.07	1.07
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.15
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25
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	1.34	1.50	1.50	1.50	1.50

Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
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	0.62	0.61	0.61	0.61	0.74	0.84	0.84	0.89	0.96	1.02	1.09	1.13	1.17
Natural Gas	0.43	0.43	0.44	0.45	0.46	0.48	0.49	0.51	0.53	0.55	0.56	0.58	0.60
Other Gaseous Fuels	1.01	1.14	1.14	1.14	1.31	1.35	1.35	1.37	1.39	1.42	1.44	1.46	1.49
Renewable Sources 4/	0.47	0.49	0.50	0.53	0.56	0.59	0.60	0.62	0.64	0.66	0.69	0.71	0.74
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
Total	2.54	2.69	2.70	2.74	3.10	3.28	3.30	3.40	3.53	3.67	3.80	3.91	4.01
Other End Use Generators	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.17	0.17	0.17
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	42.60	42.63	46.00	46.53	47.30	48.17	48.92	49.68	50.03	50.45	50.80	51.28	51.51
Commercial/Other	52.82	50.97	53.82	55.02	57.04	58.90	60.52	61.97	63.21	64.36	65.48	66.53	67.57
Industrial	23.44	22.61	23.27	23.88	24.49	24.92	25.29	25.60	25.91	26.30	26.71	27.09	27.51
Transportation	1.07	1.05	1.13	1.16	1.19	1.21	1.23	1.24	1.26	1.28	1.30	1.32	1.34
Total Sales	119.93	117.26	124.22	126.59	130.03	133.20	135.96	138.49	140.41	142.40	144.30	146.21	147.93
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	9.37	6.18	7.72	6.65	8.60	8.12	7.63	7.10	6.56	7.37	6.68	6.08	5.82
Gross International Exports	0.08	0.19	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	6.74	6.77	5.85	10.62	10.74	10.72	11.53	10.53	9.94	10.07	9.62	8.39	8.22
Gross Interregional Electricity Exports	1.02	0.94	0.09	0.04	0.05	0.04	0.04	0.23	0.11	0.10	0.23	0.30	0.32
Purchases from Combined Heat and Power 8	1.80	2.12	2.28	2.59	3.07	3.52	3.84	4.19	4.64	5.14	5.64	6.04	6.45
Electric Power Sector Generation for Custom	106.63	109.46	119.14	117.50	118.76	122.10	124.37	128.28	130.80	131.45	134.18	137.63	139.39
Total Net Energy for Load	123.44	123.41	134.90	137.32	141.12	144.42	147.34	149.87	151.83	153.94	155.90	157.84	159.56
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	18.64	18.26	20.42	20.25	20.77	21.22	21.66	21.63	21.63	21.63	21.63	21.63	21.63
Petroleum	14.96	9.34	36.61	8.44	14.41	13.14	14.72	17.02	18.15	18.41	19.27	21.12	25.03
Natural Gas	32.30	41.39	22.22	47.74	42.17	46.25	46.34	47.69	48.59	48.74	50.14	51.74	49.51
Nuclear	33.44	33.94	33.58	33.99	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16
Pumped Storage/Other 3/	-0.71	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
Renewable Sources 4/	11.74	11.64	11.85	12.63	12.79	12.88	13.05	13.33	13.65	13.91	14.26	14.26	14.34
Total Generation	110.37	113.72	123.84	122.20	123.46	126.81	129.07	132.98	135.34	135.99	138.61	142.06	143.82
Sales to Customers	106.63	109.46	119.14	117.50	118.76	122.10	124.37	128.28	130.80	131.45	134.18	137.63	139.39
Generation for Own Use	3.74	4.26	4.70	4.70	4.70	4.70	4.70	4.70	4.54	4.54	4.43	4.43	4.43
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
<b>Combined Heat and Power</b>													
Coal	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Petroleum	1.68	1.52	1.63	1.63	2.54	2.76	2.93	3.12	3.39	3.65	3.92	4.07	4.22
Natural Gas	1.06	1.08	1.07	1.10	1.15	1.20	1.24	1.28	1.34	1.40	1.45	1.51	1.55
Other Gaseous Fuels	1.15	1.49	1.80	1.80	2.43	2.57	2.57	2.64	2.73	2.83	2.92	3.00	3.09
Renewable Sources 4/	8.28	8.65	8.84	9.33	9.79	10.12	10.34	10.54	10.82	11.17	11.54	11.93	12.34
Other	0.39	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Total	12.88	13.58	14.19	14.70	16.74	17.48	17.90	18.42	19.11	19.88	20.66	21.34	22.03
Other End Use Generators	0.94	1.21	1.22	1.23	1.25	1.27	1.30	1.34	1.38	1.42	1.43	1.43	1.44

Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	1.80	2.12	2.28	2.59	3.07	3.52	3.84	4.19	4.64	5.14	5.64	6.04	6.45
Generation for Own Use	12.02	12.67	13.13	13.34	14.91	15.23	15.36	15.57	15.85	16.17	16.45	16.74	17.02
Total Electricity Generation	124.20	128.51	139.25	138.13	141.45	145.56	148.28	152.73	155.82	157.30	160.71	164.83	167.29
End-Use Prices (2002 cents per kilowatthour)													
Residential	12.1	11.2	11.5	10.9	10.3	10.0	9.9	9.9	10.1	10.2	10.4	10.6	10.8
Commercial	10.6	9.8	9.7	8.9	8.3	7.9	7.7	7.6	7.7	7.8	7.9	8.1	8.2
Industrial	9.1	8.5	8.2	7.8	7.3	7.1	6.9	6.8	6.7	6.5	6.3	6.4	6.5
Transportation	10.2	9.6	10.0	9.4	8.8	8.6	8.5	8.5	8.6	8.7	8.8	9.0	9.1
All Sectors Average	10.9	10.1	10.1	9.4	8.8	8.5	8.3	8.3	8.4	8.4	8.5	8.7	8.8
Prices by Service Category (2002 cents per kilowatthour)													
Generation	6.7	5.9	5.9	5.2	4.7	4.4	4.3	4.2	4.3	4.3	4.4	4.6	4.7
Transmission	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1
Distribution	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.19	0.19	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Natural Gas	0.28	0.33	0.19	0.38	0.34	0.37	0.37	0.38	0.38	0.38	0.38	0.40	0.38
Oil	0.16	0.10	0.37	0.08	0.15	0.13	0.15	0.17	0.18	0.18	0.19	0.21	0.24
Total	0.63	0.63	0.76	0.67	0.69	0.72	0.74	0.77	0.78	0.78	0.80	0.83	0.84
Emissions (million tons) 10/													
Total Carbon	14.97	14.22	17.39	13.75	14.67	14.98	15.49	16.16	16.41	16.49	16.77	17.35	17.84
Carbon Dioxide	54.90	52.13	63.76	50.42	53.81	54.93	56.79	59.24	60.18	60.46	61.48	63.62	65.41
Sulfur Dioxide	0.21	0.18	0.30	0.15	0.18	0.15	0.16	0.17	0.18	0.18	0.18	0.18	0.19
Nitrogen Oxide	0.05	0.05	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05



Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	3.51	0.8%
Other Fossil 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	-0.6%
Combined Cycle	10.73	10.99	11.20	11.48	11.85	12.26	12.62	12.98	13.39	13.87	14.14	14.14	1.6%
Combustion Turbine/Diesel	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	-0.4%
Nuclear Power	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	0.0%
Pumped Storage/Other 3/	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	N/A
Fuel Cells	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Renewable Sources 4/	3.22	3.26	3.30	3.39	3.55	3.74	3.74	3.87	4.02	4.23	4.82	4.82	2.4%
Distributed Generation 5/	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.08	N/A
<b>Total Capacity</b>	<b>32.49</b>	<b>32.80</b>	<b>33.06</b>	<b>33.44</b>	<b>33.96</b>	<b>34.58</b>	<b>34.95</b>	<b>35.44</b>	<b>36.00</b>	<b>36.72</b>	<b>37.57</b>	<b>38.15</b>	<b>0.7%</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	N/A
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	N/A
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	N/A
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	N/A
Fuel Cells	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Renewable Sources 4/	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	N/A
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	N/A
<b>Total Planned Additions</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>0.54</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	N/A
Other Fossil 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	N/A
Combined Cycle	0.98	1.23	1.44	1.72	2.09	2.51	2.86	3.22	3.63	4.12	4.38	4.38	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.14	0.19	0.23	0.32	0.48	0.67	0.67	0.80	0.94	1.16	1.75	1.75	N/A
Distributed Generation 5/	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.08	N/A
<b>Total Unplanned Additions</b>	<b>1.13</b>	<b>1.44</b>	<b>1.70</b>	<b>2.08</b>	<b>2.61</b>	<b>3.23</b>	<b>3.59</b>	<b>4.08</b>	<b>4.65</b>	<b>5.36</b>	<b>6.21</b>	<b>6.79</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>1.67</b>	<b>1.98</b>	<b>2.24</b>	<b>2.62</b>	<b>3.14</b>	<b>3.77</b>	<b>4.13</b>	<b>4.62</b>	<b>5.18</b>	<b>5.90</b>	<b>6.75</b>	<b>7.33</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Other Fossil Steam 3/	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	N/A
Combined Cycle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	N/A
Combustion Turbine/Diesel	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	N/A
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	N/A
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	N/A
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	N/A
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	N/A
<b>Total</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.50</b>	<b>N/A</b>

Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
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	0.0%
Petroleum	1.20	1.22	1.23	1.25	1.31	1.37	1.43	1.43	1.44	1.44	1.45	1.45	3.8%
Natural Gas	0.61	0.63	0.64	0.66	0.68	0.70	0.73	0.75	0.77	0.79	0.82	0.85	3.0%
Other Gaseous Fuels	1.51	1.53	1.55	1.57	1.60	1.62	1.64	1.66	1.67	1.69	1.70	1.72	1.8%
Renewable Sources 4/	0.77	0.79	0.81	0.83	0.85	0.87	0.89	0.90	0.92	0.94	0.96	0.98	3.0%
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	N/A
Total	4.11	4.18	4.26	4.33	4.46	4.58	4.70	4.76	4.82	4.88	4.95	5.01	2.7%
Other End Use Generators	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.20	0.21	0.22	0.24	0.25	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	51.93	52.45	53.07	53.44	53.97	54.56	55.34	55.73	56.31	56.93	57.71	58.20	1.4%
Commercial/Other	68.59	69.65	70.63	71.67	72.76	73.93	75.15	76.35	77.55	78.81	80.09	81.36	2.1%
Industrial	27.86	28.21	28.57	29.00	29.40	29.65	29.96	30.19	30.54	30.92	31.28	31.74	1.5%
Transportation	1.36	1.38	1.41	1.43	1.45	1.48	1.50	1.52	1.55	1.57	1.60	1.63	1.9%
Total Sales	149.74	151.69	153.68	155.53	157.58	159.61	161.95	163.80	165.96	168.24	170.69	172.93	1.7%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	5.55	7.48	6.79	6.08	5.37	4.84	8.70	8.06	7.51	6.95	6.39	5.78	-0.3%
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	N/A
Gross Interregional Electricity Imports	7.91	7.94	7.75	7.80	7.91	7.90	7.00	6.65	7.24	7.18	7.82	7.50	0.4%
Gross Interregional Electricity Exports	0.28	0.31	0.22	0.22	0.16	0.44	0.38	0.67	0.49	0.56	1.10	0.92	-0.1%
Purchases from Combined Heat and Power 8	6.83	7.07	7.31	7.57	8.01	8.41	8.81	8.98	9.16	9.36	9.54	9.75	6.9%
Electric Power Sector Generation for Custom	141.33	141.12	143.78	146.44	148.73	151.30	150.29	153.37	155.26	158.18	161.06	163.99	1.8%
Total Net Energy for Load	161.33	163.30	165.41	167.67	169.85	172.01	174.43	176.39	178.68	181.10	183.71	186.10	1.8%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	21.63	21.63	21.63	21.63	21.61	21.63	21.61	21.61	21.61	21.61	21.63	25.95	1.5%
Petroleum	29.07	27.91	29.05	30.24	26.99	24.09	20.42	21.04	22.07	19.52	19.55	17.78	2.8%
Natural Gas	47.41	48.21	49.57	50.71	55.70	60.44	63.12	65.12	65.44	70.10	70.76	71.13	2.4%
Nuclear	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	0.0%
Pumped Storage/Other 3/	-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%
Renewable Sources 4/	14.34	14.49	14.65	14.98	15.54	16.26	16.26	16.72	17.26	18.07	20.24	20.25	2.4%
Total Generation	145.76	145.54	148.21	150.87	153.15	155.73	154.72	157.80	159.69	162.61	165.49	168.42	1.7%
Sales to Customers	141.33	141.12	143.78	146.44	148.73	151.30	150.29	153.37	155.26	158.18	161.06	163.99	1.8%
Generation for Own Use	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	0.2%
Distributed Generation 5/	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	N/A
<b>Combined Heat and Power</b>													
Coal	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%
Petroleum	4.37	4.43	4.48	4.54	4.78	5.02	5.26	5.28	5.29	5.31	5.32	5.34	5.6%
Natural Gas	1.60	1.65	1.70	1.75	1.82	1.89	1.96	2.02	2.09	2.16	2.24	2.32	3.4%
Other Gaseous Fuels	3.17	3.25	3.34	3.42	3.50	3.59	3.67	3.73	3.79	3.85	3.91	3.97	4.3%
Renewable Sources 4/	12.71	13.00	13.28	13.59	13.89	14.13	14.37	14.61	14.86	15.13	15.39	15.68	2.6%
Other	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.0%
Total	22.68	23.16	23.63	24.14	24.83	25.45	26.09	26.47	26.86	27.28	27.69	28.14	3.2%
Other End Use Generators	1.44	1.45	1.45	1.46	1.48	1.50	1.55	1.60	1.67	1.73	1.80	1.88	1.9%

Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	6.83	7.07	7.31	7.57	8.01	8.41	8.81	8.98	9.16	9.36	9.54	9.75	6.9%
Generation for Own Use	17.29	17.53	17.77	18.02	18.30	18.55	18.83	19.09	19.37	19.65	19.95	20.27	2.1%
Total Electricity Generation	169.88	170.16	173.31	176.48	179.48	182.71	182.39	185.90	188.25	191.66	195.02	198.47	1.9%
End-Use Prices (2002 cents per kilowatthour)													
Residential	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	-0.1%
Commercial	8.3	8.4	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	-0.7%
Industrial	6.6	6.7	6.7	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.8	6.7	-1.0%
Transportation	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.1	9.1	9.0	9.1	9.0	-0.2%
All Sectors Average	8.9	8.9	9.0	9.0	9.0	9.0	8.9	9.0	9.0	8.9	9.0	8.9	-0.5%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.9	4.9	5.0	5.0	5.0	5.0	4.9	5.0	5.0	5.0	5.0	5.0	-0.7%
Transmission	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.1%
Distribution	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	-0.4%
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.25	1.2%
Natural Gas	0.36	0.36	0.37	0.38	0.41	0.45	0.46	0.47	0.47	0.50	0.50	0.51	1.9%
Oil	0.28	0.27	0.28	0.29	0.26	0.24	0.20	0.21	0.22	0.20	0.20	0.18	2.4%
Total	0.86	0.85	0.87	0.89	0.89	0.90	0.88	0.90	0.91	0.92	0.92	0.94	1.8%
Emissions (million tons) 10/													
Total Carbon	18.40	18.18	18.58	18.91	18.79	18.74	18.28	18.62	18.75	18.71	18.78	19.28	1.3%
Carbon Dioxide	67.46	66.65	68.13	69.34	68.90	68.71	67.02	68.28	68.75	68.62	68.85	70.71	1.3%
Sulfur Dioxide	0.20	0.19	0.20	0.20	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	-0.4%
Nitrogen Oxide	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%

Table 66. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council / New England

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 67. Electric Power Projections for EMM Region  
Florida Reliability Coordinating Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	10.97	11.49	11.49	10.37	10.37	10.37	10.80	11.55	11.55	11.55	12.02	12.02	12.02
Other Fossil Steam 2/	12.44	11.50	10.76	10.76	10.58	10.58	10.58	10.58	10.52	10.52	10.52	10.52	10.52
Combined Cycle	5.04	7.25	9.06	10.89	10.89	10.89	10.89	11.21	12.10	13.01	14.77	16.33	18.26
Combustion Turbine/Diesel	7.61	12.69	12.69	12.95	16.66	16.52	16.45	16.76	17.08	17.54	17.56	17.63	17.63
Nuclear Power	3.90	3.91	3.91	3.91	3.91	3.91	3.91	3.93	3.93	3.93	3.93	3.93	3.93
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/	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61	0.61	0.64	0.67	0.67	0.67
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	40.53	47.43	48.50	49.46	52.99	52.86	53.23	54.62	55.77	57.19	59.46	61.10	63.03
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	1.81	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64
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 Planned Additions	0.00	0.00	1.81	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.43	1.18	1.18	1.18	1.65	1.65	1.65
Other Fossil 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	0.32	1.21	2.12	3.88	5.44	7.37
Combustion Turbine/Diesel	0.00	0.00	0.00	0.28	3.99	3.99	3.99	4.33	4.66	5.39	5.50	5.57	5.57
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/	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.05	0.09	0.09	0.09
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 Unplanned Additions	0.00	0.00	0.00	0.28	3.99	3.99	4.44	5.84	7.06	8.74	11.12	12.76	14.69
Cumulative Total Additions	0.00	0.00	1.81	3.92	7.63	7.63	8.08	9.48	10.70	12.38	14.76	16.40	18.33
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
Other Fossil Steam 3/	0.00	0.00	0.35	0.35	0.54	0.54	0.54	0.54	0.60	0.60	0.60	0.60	0.60
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	0.03	0.03	0.16	0.24	0.27	0.27	0.54	0.64	0.64	0.64
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	0.35	1.50	1.69	1.82	1.90	1.92	1.99	2.26	2.36	2.36	2.36

Table 67. Electric Power Projections for EMM Region  
Florida Reliability Coordinating Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Combined Heat and Power 8/ Capacity													
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
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	0.18	0.18	0.18	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.24
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/	0.24	0.25	0.25	0.27	0.28	0.30	0.30	0.31	0.32	0.33	0.35	0.36	0.37
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
Total	0.46	0.48	0.48	0.50	0.53	0.55	0.56	0.57	0.59	0.61	0.63	0.65	0.67
Other End Use Generators	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
Electricity Demand (billion kilowatthours)													
Residential	94.06	102.47	103.35	105.37	107.19	109.20	111.53	114.27	116.40	118.89	121.28	123.89	125.73
Commercial/Other	77.75	79.09	79.44	82.25	84.92	87.49	90.27	93.39	96.83	100.44	103.92	106.95	109.62
Industrial	15.23	15.52	15.26	15.68	16.06	16.39	16.72	17.00	17.24	17.52	17.86	18.19	18.55
Transportation	1.03	1.04	1.07	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37
Total Sales	188.07	198.12	199.11	204.40	209.31	214.24	219.72	225.88	231.71	238.13	244.37	250.37	255.28
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	38.11	46.90	47.11	47.96	48.42	48.43	48.47	46.74	46.54	46.52	43.26	40.50	37.52
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
Purchases from Combined Heat and Power 8	0.38	0.44	0.46	0.48	0.53	0.61	0.67	0.74	0.83	0.92	1.01	1.07	1.12
Electric Power Sector Generation for Custom	177.59	177.23	164.99	169.64	174.24	179.33	184.90	192.80	198.92	205.61	215.16	224.03	232.06
Total Net Energy for Load	216.09	224.57	212.56	218.08	223.19	228.37	234.04	240.27	246.29	253.06	259.42	265.59	270.69
Generation by Fuel Type (billion kilowatthours)													
Coal	60.99	50.49	75.80	70.37	72.77	75.09	80.20	85.76	85.76	85.85	89.32	89.34	89.62
Petroleum	40.30	32.32	24.61	14.59	14.20	15.17	16.02	19.33	17.55	14.42	18.04	26.83	28.22
Natural Gas	42.27	59.31	29.76	49.56	51.86	53.65	53.07	51.87	59.77	69.35	71.63	71.59	77.91
Nuclear	31.58	33.70	33.16	33.59	33.72	33.72	33.72	33.89	33.89	33.89	33.89	33.89	33.89
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
Renewable Sources 4/	3.32	3.76	4.16	4.03	4.20	4.23	4.44	4.49	4.48	4.62	4.81	4.91	4.95
Total Generation	178.45	179.59	167.50	172.14	176.75	181.86	187.44	195.34	201.44	208.14	217.68	226.55	234.59
Sales to Customers	177.59	177.23	164.99	169.64	174.24	179.33	184.90	192.80	198.92	205.61	215.16	224.03	232.06
Generation for Own Use	0.86	2.36	2.51	2.50	2.51	2.53	2.54	2.54	2.52	2.52	2.52	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	0.00	0.00	0.00	0.00
Combined Heat and Power													
Coal	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17
Petroleum	0.42	0.38	0.41	0.41	0.64	0.70	0.74	0.79	0.85	0.92	0.99	1.03	1.06
Natural Gas	0.97	0.99	0.98	1.01	1.05	1.09	1.13	1.17	1.22	1.28	1.33	1.38	1.42
Other Gaseous Fuels	0.29	0.38	0.46	0.46	0.61	0.65	0.65	0.67	0.69	0.71	0.74	0.76	0.78
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
Other	0.62	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Total	2.47	2.74	2.83	2.86	3.29	3.43	3.50	3.61	3.75	3.90	4.04	4.15	4.25
Other End Use Generators	0.00	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  
Florida Reliability Coordinating Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.38	0.44	0.46	0.48	0.53	0.61	0.67	0.74	0.83	0.92	1.01	1.07	1.12
Generation for Own Use	2.09	2.30	2.37	2.38	2.76	2.82	2.83	2.87	2.92	2.98	3.03	3.08	3.12
<b>Total Electricity Generation</b>	<b>180.92</b>	<b>182.32</b>	<b>170.33</b>	<b>175.00</b>	<b>180.03</b>	<b>185.28</b>	<b>190.94</b>	<b>198.95</b>	<b>205.20</b>	<b>212.03</b>	<b>221.72</b>	<b>230.70</b>	<b>238.83</b>
<b>End-Use Prices</b> (2002 cents per kilowatthour)													
Residential	8.8	8.2	9.1	9.2	9.3	9.3	9.2	9.2	9.2	9.2	9.1	9.1	9.1
Commercial	7.3	6.7	7.1	7.1	7.2	7.2	7.2	7.3	7.3	7.3	7.3	7.3	7.4
Industrial	5.6	5.3	5.3	5.3	5.3	5.4	5.3	5.4	5.4	5.4	5.3	5.4	5.4
Transportation	7.5	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.3	7.4	7.4
All Sectors Average	7.9	7.4	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.0	8.1	8.1
<b>Prices by Service Category</b> (2002 cents per kilowatthour)													
Generation	5.4	4.8	5.5	5.5	5.5	5.5	5.4	5.5	5.4	5.4	5.3	5.3	5.4
Transmission	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
Distribution	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
<b>Fuel Consumption (quadrillion Btu) 9/</b>													
Coal	0.64	0.54	0.74	0.68	0.71	0.73	0.78	0.83	0.83	0.83	0.86	0.86	0.86
Natural Gas	0.39	0.52	0.25	0.39	0.41	0.43	0.43	0.42	0.47	0.54	0.54	0.54	0.57
Oil	0.39	0.30	0.24	0.14	0.14	0.14	0.15	0.18	0.16	0.14	0.16	0.23	0.24
Total	1.41	1.35	1.24	1.22	1.26	1.30	1.36	1.42	1.46	1.50	1.56	1.62	1.67
<b>Emissions (million tons) 10/</b>													
Total Carbon	28.99	29.55	30.44	28.57	29.42	30.53	31.94	33.80	34.24	34.73	36.16	37.56	38.36
Carbon Dioxide	106.28	108.36	111.62	104.74	107.87	111.93	117.13	123.92	125.53	127.35	132.59	137.71	140.65
Sulfur Dioxide	0.32	0.32	0.36	0.27	0.27	0.28	0.28	0.26	0.29	0.30	0.30	0.28	0.27
Nitrogen Oxide	0.29	0.26	0.19	0.15	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17

Table 67. Electric Power Projections for EMM Region  
 Florida Reliability Coordinating Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	12.02	12.02	12.18	12.18	12.70	13.02	14.87	17.08	19.23	21.08	22.00	22.99	3.1%
Other Fossil Steam 2/	10.52	10.52	10.52	10.01	10.01	10.01	9.94	9.94	9.94	9.70	9.70	9.70	-0.7%
Combined Cycle	19.88	21.25	21.81	22.60	23.48	24.33	24.33	24.33	24.33	24.33	24.33	24.33	5.4%
Combustion Turbine/Diesel	17.63	17.63	17.63	17.84	18.18	18.62	18.62	18.62	18.62	18.62	18.62	18.54	1.7%
Nuclear Power	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	0.0%
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	N/A
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	N/A
Renewable Sources 4/	0.67	0.67	0.67	0.72	0.83	0.88	0.88	0.88	0.88	0.88	0.92	0.95	2.1%
Distributed Generation 5/	0.03	0.06	0.09	0.13	0.20	0.26	0.34	0.41	0.45	0.48	0.51	0.54	N/A
Total Capacity	64.68	66.08	66.82	67.41	69.32	71.05	72.89	75.18	77.37	79.01	80.00	80.97	2.4%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Planned Additions	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	1.65	1.65	1.81	1.81	2.33	2.65	4.50	6.71	8.86	10.71	11.63	12.62	N/A
Other Fossil 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	N/A
Combined Cycle	8.99	10.36	10.92	11.71	12.59	13.44	13.44	13.44	13.44	13.44	13.44	13.44	N/A
Combustion Turbine/Diesel	5.57	5.57	5.57	5.78	6.13	6.56	6.56	6.56	6.56	6.56	6.56	6.56	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.09	0.09	0.09	0.14	0.24	0.30	0.30	0.30	0.30	0.30	0.33	0.37	N/A
Distributed Generation 5/	0.03	0.06	0.09	0.13	0.20	0.26	0.34	0.41	0.45	0.48	0.51	0.54	N/A
Total Unplanned Additions	16.34	17.74	18.48	19.58	21.49	23.21	25.13	27.42	29.61	31.48	32.47	33.52	N/A
Cumulative Total Additions	19.98	21.37	22.12	23.21	25.13	26.85	28.77	31.06	33.25	35.12	36.11	37.16	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	N/A
Other Fossil Steam 3/	0.60	0.60	0.60	1.11	1.11	1.11	1.18	1.18	1.18	1.42	1.42	1.42	N/A
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	N/A
Combustion Turbine/Diesel	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.71	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	2.36	2.36	2.36	2.87	2.87	2.87	2.94	2.94	2.94	3.18	3.18	3.25	N/A



Table 67. Electric Power Projections for EMM Region  
Florida Reliability Coordinating Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
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	N/A
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	N/A
Natural Gas	0.25	0.26	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	3.0%
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	N/A
Renewable Sources 4/	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.49	3.0%
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	N/A
Total	0.69	0.71	0.72	0.74	0.76	0.78	0.80	0.81	0.83	0.85	0.87	0.89	2.8%
Other End Use Generators	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.13	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	127.94	130.15	132.62	134.52	136.78	139.14	141.78	143.54	145.77	148.11	150.89	152.86	1.8%
Commercial/Other	112.13	114.79	117.74	121.44	125.67	130.04	133.96	137.28	140.04	142.67	145.69	149.58	2.8%
Industrial	18.84	19.17	19.51	19.90	20.28	20.59	20.93	21.24	21.59	21.99	22.39	22.84	1.7%
Transportation	1.40	1.44	1.47	1.50	1.54	1.58	1.62	1.65	1.69	1.73	1.77	1.82	2.4%
Total Sales	260.31	265.55	271.34	277.36	284.26	291.35	298.29	303.70	309.09	314.51	320.74	327.10	2.2%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	N/A
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	N/A
Gross Interregional Electricity Imports	35.77	32.78	31.70	32.13	32.94	34.17	31.65	27.85	20.99	19.53	19.05	20.04	-3.6%
Gross Interregional Electricity Exports	0.01	0.09	0.33	0.38	0.33	0.02	0.03	0.02	0.03	0.03	0.03	0.14	N/A
Purchases from Combined Heat and Power 8	1.18	1.21	1.25	1.28	1.37	1.45	1.54	1.57	1.59	1.62	1.65	1.68	6.0%
Electric Power Sector Generation for Custom	238.25	246.61	253.94	259.85	266.11	271.88	281.60	291.29	303.79	310.86	317.84	323.60	2.7%
Total Net Energy for Load	275.20	280.52	286.55	292.89	300.10	307.49	314.76	320.68	326.35	331.99	338.51	345.17	1.9%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	89.60	89.58	90.75	90.82	94.70	97.06	110.81	127.14	143.14	156.35	163.16	170.38	5.4%
Petroleum	28.89	32.77	31.09	30.10	26.08	25.41	22.76	24.46	19.95	16.55	18.53	20.33	-2.0%
Natural Gas	83.43	87.91	95.75	102.44	108.35	112.01	110.40	101.99	103.03	100.29	98.39	95.01	2.1%
Nuclear	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	0.0%
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	N/A
Renewable Sources 4/	4.96	4.99	4.98	5.12	5.61	6.04	6.26	6.34	6.31	6.32	6.39	6.51	2.4%
Total Generation	240.77	249.13	256.46	262.37	268.64	274.41	284.12	293.81	306.32	313.39	320.36	326.11	2.6%
Sales to Customers	238.25	246.61	253.94	259.85	266.11	271.88	281.60	291.29	303.79	310.86	317.84	323.60	2.7%
Generation for Own Use	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.51	0.3%
Distributed Generation 5/	0.01	0.03	0.04	0.06	0.09	0.12	0.15	0.18	0.20	0.21	0.22	0.24	N/A
<b>Combined Heat and Power</b>													
Coal	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
Petroleum	1.10	1.12	1.13	1.15	1.21	1.27	1.33	1.33	1.33	1.34	1.34	1.35	5.6%
Natural Gas	1.46	1.50	1.55	1.60	1.66	1.72	1.79	1.85	1.91	1.97	2.05	2.12	3.4%
Other Gaseous Fuels	0.80	0.82	0.84	0.86	0.88	0.90	0.93	0.94	0.96	0.97	0.99	1.00	4.3%
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	N/A
Other	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.0%
Total	4.35	4.43	4.51	4.60	4.74	4.88	5.03	5.11	5.19	5.27	5.36	5.45	3.0%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 67. Electric Power Projections for EMM Region  
Florida Reliability Coordinating Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	1.18	1.21	1.25	1.28	1.37	1.45	1.54	1.57	1.59	1.62	1.65	1.68	6.0%
Generation for Own Use	3.17	3.22	3.27	3.32	3.37	3.43	3.49	3.54	3.59	3.65	3.71	3.77	2.2%
<b>Total Electricity Generation</b>	<b>245.14</b>	<b>253.59</b>	<b>261.01</b>	<b>267.03</b>	<b>273.46</b>	<b>279.40</b>	<b>289.29</b>	<b>299.09</b>	<b>311.70</b>	<b>318.87</b>	<b>325.95</b>	<b>331.80</b>	<b>2.6%</b>
<b>End-Use Prices</b> (2002 cents per kilowatthour)													
Residential	9.1	9.1	9.1	9.0	9.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9	0.3%
Commercial	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	0.4%
Industrial	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	0.0%
Transportation	7.4	7.4	7.3	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.0	7.0	-0.2%
All Sectors Average	8.1	8.1	8.1	8.0	8.0	8.0	7.9	8.0	8.0	8.0	7.9	7.9	0.3%
<b>Prices by Service Category</b> (2002 cents per kilowatthour)													
Generation	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	0.3%
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	2.3%
Distribution	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.3%
<b>Fuel Consumption (quadrillion Btu) 9/</b>													
Coal	0.86	0.86	0.87	0.87	0.90	0.92	1.04	1.18	1.32	1.43	1.49	1.55	4.7%
Natural Gas	0.60	0.62	0.68	0.72	0.76	0.78	0.77	0.71	0.72	0.70	0.69	0.66	1.1%
Oil	0.24	0.27	0.26	0.25	0.22	0.22	0.19	0.21	0.17	0.14	0.16	0.17	-2.4%
Total	1.70	1.76	1.81	1.85	1.88	1.92	2.00	2.10	2.20	2.27	2.33	2.38	2.5%
<b>Emissions (million tons) 10/</b>													
Total Carbon	38.90	40.00	40.91	41.51	42.26	42.99	45.65	48.85	51.96	54.14	55.95	57.56	2.9%
Carbon Dioxide	142.65	146.68	150.00	152.20	154.95	157.62	167.39	179.13	190.52	198.53	205.14	211.05	2.9%
Sulfur Dioxide	0.28	0.28	0.29	0.29	0.28	0.26	0.27	0.27	0.27	0.27	0.27	0.28	-0.5%
Nitrogen Oxide	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	-1.2%

Table 67. Electric Power Projections for EMM Region  
Florida Reliability Coordinating Council

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	71.73	71.60	71.38	71.38	71.38	71.38	71.27	71.27	71.24	71.24	71.24	71.24	71.24
Other Fossil Steam 2/	19.01	18.98	18.78	18.76	18.76	18.73	18.73	18.68	15.25	15.21	15.21	15.21	15.21
Combined Cycle	10.85	22.01	34.32	34.84	34.84	34.84	34.84	34.84	34.83	34.83	34.83	35.11	35.98
Combustion Turbine/Diesel	24.12	27.80	29.72	29.72	29.72	29.63	29.51	29.51	27.02	26.91	27.66	29.06	32.22
Nuclear Power	32.06	32.15	32.30	32.43	32.73	32.86	32.98	32.99	33.03	33.08	33.10	33.46	33.82
Pumped Storage/Other 3/	6.47	6.81	6.87	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94
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/	11.77	11.79	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.95	11.99	12.34
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 Capacity	176.01	191.15	205.16	205.86	206.16	206.17	206.06	206.02	200.10	199.99	200.91	203.00	207.74
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	11.77	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29
Combustion Turbine/Diesel	0.00	0.00	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	13.61	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.29	1.15
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.15	5.31
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.19	0.54
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	0.90	2.63	7.00
Cumulative Total Additions	0.00	0.00	13.61	14.14	14.14	14.14	14.14	14.14	14.14	14.14	15.03	16.76	21.14
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.22	0.22	0.22	0.22	0.33	0.34	0.37	0.37	0.37	0.37	0.37
Other Fossil Steam 3/	0.00	0.00	0.14	0.17	0.17	0.19	0.19	0.24	3.67	3.72	3.72	3.72	3.72
Combined Cycle	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
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.09	0.21	0.21	2.69	2.81	2.81	2.81	2.81
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	0.37	0.39	0.39	0.51	0.74	0.79	6.74	6.90	6.90	6.90	6.90

Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.90	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
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	4.13	4.19	4.23	4.33	4.50	4.66	4.78	4.92	5.10	5.28	5.46	5.62	5.76
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/	2.01	2.08	2.11	2.26	2.39	2.49	2.55	2.62	2.70	2.80	2.91	3.03	3.15
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
Total	7.09	7.25	7.32	7.56	7.86	8.12	8.31	8.51	8.77	9.06	9.34	9.62	9.89
Other End Use Generators	0.53	0.53	0.54	0.55	0.56	0.58	0.61	0.63	0.67	0.70	0.71	0.71	0.72
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	282.15	303.87	303.50	307.97	312.25	317.15	322.83	329.69	334.94	341.38	347.47	354.03	358.42
Commercial/Other	227.82	234.72	234.35	243.81	252.45	260.54	268.85	277.76	287.21	297.05	306.52	314.93	322.72
Industrial	234.11	241.57	236.60	243.07	248.62	254.09	259.41	263.59	266.98	271.24	276.40	281.32	286.82
Transportation	3.87	3.97	4.06	4.19	4.30	4.40	4.49	4.58	4.68	4.78	4.88	4.99	5.10
Total Sales	747.96	784.14	778.51	799.03	817.63	836.18	855.58	875.62	893.81	914.45	935.27	955.25	973.05
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	69.99	80.15	87.81	87.78	82.30	82.16	83.86	86.53	89.12	86.87	89.87	89.59	88.96
Gross Interregional Electricity Exports	55.98	64.41	66.50	66.40	61.44	61.19	61.57	58.97	58.24	56.70	53.13	49.83	46.30
Purchases from Combined Heat and Power 8	7.69	8.28	8.63	9.35	9.87	10.94	11.77	12.67	13.79	14.97	16.11	17.11	18.06
Electric Power Sector Generation for Custom	810.40	836.77	797.15	817.69	837.24	855.18	873.06	887.16	901.25	922.66	936.35	952.85	967.19
Total Net Energy for Load	832.11	860.80	827.09	848.42	867.97	887.09	907.11	927.38	945.91	967.79	989.21	1009.72	1027.91
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	450.64	454.59	447.52	451.77	466.24	482.58	498.44	501.81	507.64	509.82	511.69	513.62	514.19
Petroleum	16.21	6.76	6.22	4.45	5.24	5.35	5.67	6.24	5.84	6.38	7.37	8.42	9.21
Natural Gas	75.17	102.11	73.15	88.37	82.61	82.70	84.20	93.82	101.34	119.42	129.73	140.48	149.09
Nuclear	248.06	252.76	248.78	247.83	256.95	258.19	258.31	258.46	258.86	259.32	259.51	262.35	265.18
Pumped Storage/Other 3/	-3.95	-3.44	-3.02	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04
Renewable Sources 4/	27.45	29.97	33.48	37.48	38.43	38.61	38.70	39.09	39.01	39.17	39.51	39.43	40.96
Total Generation	813.58	842.75	806.13	826.86	846.43	864.39	882.28	896.38	909.66	931.06	944.76	961.26	975.60
Sales to Customers	810.40	836.77	797.15	817.69	837.24	855.18	873.06	887.16	901.25	922.66	936.35	952.85	967.19
Generation for Own Use	3.18	5.98	8.98	9.18	9.19	9.21	9.22	9.22	8.41	8.41	8.41	8.41	8.41
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
<b>Combined Heat and Power</b>													
Coal	3.95	3.90	3.85	3.85	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
Petroleum	1.85	1.67	1.79	1.79	2.79	3.03	3.21	3.42	3.72	4.01	4.30	4.46	4.63
Natural Gas	24.89	25.45	25.26	25.97	26.97	28.20	29.12	30.19	31.53	32.92	34.21	35.45	36.54
Other Gaseous Fuels	1.26	1.64	1.98	1.98	2.67	2.82	2.82	2.89	3.00	3.10	3.20	3.29	3.39
Renewable Sources 4/	9.53	9.97	10.19	10.75	11.28	11.65	11.91	12.15	12.47	12.87	13.30	13.75	14.22
Other	3.82	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04
Total	45.31	47.67	48.12	49.39	52.61	54.61	55.96	57.56	59.61	61.80	63.91	65.87	67.68
Other End Use Generators	1.09	1.40	1.41	1.42	1.44	1.47	1.50	1.54	1.58	1.64	1.65	1.65	1.66

Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	7.69	8.28	8.63	9.35	9.87	10.94	11.77	12.67	13.79	14.97	16.11	17.11	18.06
Generation for Own Use	38.70	40.78	40.89	41.46	44.18	45.14	45.69	46.44	47.41	48.47	49.45	50.40	51.28
Total Electricity Generation	859.97	891.81	855.66	877.67	900.48	920.46	939.74	955.48	970.86	994.51	1010.32	1028.77	1044.93
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.7	7.5	7.8	7.7	7.6	7.4	7.3	7.2	7.0	7.0	6.9	6.9	6.9
Commercial	6.6	6.5	6.3	6.3	6.2	6.1	6.0	5.9	5.9	5.9	5.8	5.9	5.9
Industrial	4.4	4.1	4.1	4.1	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Transportation	6.3	6.0	6.3	6.2	6.0	5.9	5.8	5.7	5.7	5.6	5.6	5.6	5.6
All Sectors Average	6.3	6.1	6.2	6.2	6.1	5.9	5.8	5.8	5.7	5.7	5.6	5.7	5.7
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.3	4.1	4.3	4.2	4.1	4.0	3.9	3.9	3.8	3.8	3.7	3.8	3.8
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Distribution	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4
Fuel Consumption (quadrillion Btu) 9/													
Coal	4.59	4.64	4.49	4.53	4.67	4.84	5.00	5.04	5.10	5.12	5.14	5.17	5.17
Natural Gas	0.73	0.93	0.60	0.73	0.69	0.69	0.70	0.77	0.79	0.93	1.02	1.10	1.16
Oil	0.17	0.07	0.07	0.05	0.06	0.06	0.06	0.07	0.06	0.07	0.08	0.09	0.09
Total	5.49	5.64	5.16	5.31	5.42	5.58	5.76	5.88	5.95	6.13	6.24	6.36	6.43
Emissions (million tons) 10/													
Total Carbon	132.62	139.47	137.26	139.90	143.59	148.29	153.08	155.43	157.37	160.50	162.65	164.84	166.19
Carbon Dioxide	486.28	511.40	503.28	512.98	526.49	543.72	561.28	569.92	577.04	588.49	596.38	604.42	609.35
Sulfur Dioxide	2.88	3.07	3.02	3.23	2.88	2.76	2.75	2.69	2.50	2.53	2.48	2.27	2.19
Nitrogen Oxide	1.20	1.11	0.80	0.65	0.65	0.67	0.68	0.68	0.67	0.68	0.68	0.69	0.69

Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	70.71	70.71	70.71	70.98	74.25	78.47	81.92	86.51	91.52	96.12	98.24	101.01	1.5%
Other Fossil Steam 2/	14.90	14.90	14.90	14.82	14.82	14.72	14.72	14.72	14.72	14.72	14.72	14.72	-1.1%
Combined Cycle	38.73	40.91	42.15	43.89	43.89	43.89	44.80	45.43	45.43	45.43	45.58	45.76	3.2%
Combustion Turbine/Diesel	34.35	35.67	36.70	37.32	37.32	37.32	37.56	37.65	37.65	37.65	37.85	38.06	1.4%
Nuclear Power	34.18	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	0.3%
Pumped Storage/Other 3/	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	0.1%
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	N/A
Renewable Sources 4/	12.54	12.67	12.67	12.82	12.82	12.82	12.85	12.85	12.85	12.85	12.88	12.94	0.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.08	0.16	0.25	0.34	0.34	0.34	0.34	N/A
Total Capacity	212.35	216.11	218.37	221.08	224.35	228.54	233.24	238.64	243.74	248.34	250.85	254.06	1.2%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	N/A
Combustion Turbine/Diesel	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total Planned Additions	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	14.14	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.27	4.06	8.28	11.73	16.32	21.33	25.93	28.05	31.08	N/A
Other Fossil 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	N/A
Combined Cycle	3.90	6.09	7.32	9.07	9.07	9.07	9.97	10.61	10.61	10.61	10.75	10.94	N/A
Combustion Turbine/Diesel	7.44	8.76	9.79	10.41	10.41	10.41	10.65	10.74	10.74	10.74	10.94	11.15	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.74	0.87	0.87	1.02	1.02	1.02	1.05	1.05	1.05	1.05	1.08	1.14	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.08	0.16	0.25	0.34	0.34	0.34	0.34	N/A
Total Unplanned Additions	12.09	15.72	17.98	20.77	24.56	28.86	33.56	38.95	44.06	48.66	51.16	54.64	N/A
Cumulative Total Additions	26.22	29.85	32.12	34.90	38.70	42.99	47.70	53.09	58.20	62.80	65.30	68.78	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.89	0.89	0.89	0.89	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.68	N/A
Other Fossil Steam 3/	4.03	4.03	4.03	4.10	4.10	4.21	4.21	4.21	4.21	4.21	4.21	4.21	N/A
Combined Cycle	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Combustion Turbine/Diesel	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	7.73	7.73	7.73	7.81	8.33	8.44	8.44	8.44	8.44	8.44	8.44	8.70	N/A

Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	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%
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	N/A
Natural Gas	5.91	6.06	6.23	6.40	6.60	6.81	7.04	7.24	7.46	7.69	7.93	8.19	3.0%
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	N/A
Renewable Sources 4/	3.26	3.35	3.43	3.52	3.61	3.68	3.75	3.82	3.90	3.98	4.06	4.14	3.0%
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	N/A
Total	10.14	10.38	10.63	10.89	11.19	11.47	11.76	12.04	12.33	12.64	12.96	13.31	2.7%
Other End Use Generators	0.72	0.72	0.73	0.73	0.75	0.77	0.80	0.85	0.90	0.95	1.01	1.07	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	363.83	369.23	375.36	379.96	385.49	391.40	398.00	402.15	407.69	413.59	420.60	425.33	1.5%
Commercial/Other	330.11	337.50	345.16	354.24	364.13	374.22	383.31	391.27	398.12	404.62	411.49	419.57	2.6%
Industrial	291.19	296.04	301.06	306.60	311.49	315.65	320.32	324.75	330.04	336.06	341.91	348.71	1.6%
Transportation	5.20	5.31	5.42	5.53	5.66	5.79	5.91	6.04	6.17	6.30	6.44	6.58	2.2%
Total Sales	990.33	1008.08	1027.00	1046.33	1066.78	1087.05	1107.54	1124.21	1142.03	1160.58	1180.45	1200.19	1.9%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	N/A
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	N/A
Gross Interregional Electricity Imports	84.34	83.79	83.47	85.11	80.38	79.22	76.94	70.07	54.02	48.17	46.44	47.33	-2.3%
Gross Interregional Electricity Exports	44.01	38.25	37.67	36.01	35.35	36.28	34.09	31.58	25.70	25.95	25.48	25.53	-3.9%
Purchases from Combined Heat and Power 8	18.98	19.74	20.56	21.41	22.57	23.70	24.89	25.72	26.59	27.49	28.46	29.49	5.7%
Electric Power Sector Generation for Custom	984.85	996.95	1015.70	1031.83	1056.15	1078.36	1098.67	1119.69	1147.74	1172.31	1193.46	1212.27	1.6%
Total Net Energy for Load	1044.16	1062.24	1082.05	1102.34	1123.75	1144.99	1166.41	1183.89	1202.64	1222.03	1242.88	1263.56	1.7%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	511.56	512.00	512.35	515.10	539.31	569.87	594.30	626.66	662.24	695.27	711.12	731.93	2.1%
Petroleum	9.46	10.84	11.25	10.43	9.56	9.22	8.96	9.49	8.97	8.45	8.79	8.78	1.1%
Natural Gas	165.40	173.93	191.90	205.71	206.65	198.61	194.75	183.00	176.04	168.25	173.36	171.62	2.3%
Nuclear	268.16	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	0.3%
Pumped Storage/Other 3/	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-0.5%
Renewable Sources 4/	41.73	42.51	42.53	42.93	42.96	42.98	42.99	42.87	42.81	42.67	42.52	42.27	1.5%
Total Generation	993.26	1005.36	1024.11	1040.24	1064.56	1086.77	1107.08	1128.09	1156.14	1180.72	1201.87	1220.68	1.6%
Sales to Customers	984.85	996.95	1015.70	1031.83	1056.15	1078.36	1098.67	1119.69	1147.74	1172.31	1193.46	1212.27	1.6%
Generation for Own Use	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	1.5%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.11	0.15	0.15	0.15	0.15	N/A
<b>Combined Heat and Power</b>													
Coal	3.86	3.86	3.86	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	0.0%
Petroleum	4.79	4.86	4.92	4.98	5.25	5.51	5.77	5.79	5.80	5.82	5.84	5.85	5.6%
Natural Gas	37.65	38.77	40.02	41.31	42.82	44.39	46.08	47.60	49.21	50.87	52.69	54.63	3.4%
Other Gaseous Fuels	3.48	3.57	3.66	3.75	3.84	3.94	4.03	4.09	4.16	4.22	4.29	4.35	4.3%
Renewable Sources 4/	14.64	14.98	15.30	15.66	16.01	16.28	16.56	16.83	17.12	17.43	17.74	18.07	2.6%
Other	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	0.0%
Total	69.47	71.08	72.81	74.61	76.83	79.02	81.34	83.22	85.20	87.25	89.46	91.82	2.9%
Other End Use Generators	1.66	1.67	1.67	1.68	1.70	1.73	1.78	1.85	1.92	2.00	2.08	2.17	1.9%



Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	18.98	19.74	20.56	21.41	22.57	23.70	24.89	25.72	26.59	27.49	28.46	29.49	5.7%
Generation for Own Use	52.15	53.00	53.92	54.88	55.96	57.05	58.24	59.36	60.53	61.76	63.08	64.50	2.0%
Total Electricity Generation	1064.39	1078.11	1098.59	1116.53	1143.09	1167.55	1190.28	1213.27	1243.42	1270.11	1293.55	1314.82	1.7%
End-Use Prices (2002 cents per kilowatthour)													
Residential	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	-0.4%
Commercial	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.0	6.0	6.0	6.1	-0.3%
Industrial	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	-0.1%
Transportation	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.5	-0.4%
All Sectors Average	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.8	-0.2%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	3.8	3.9	3.9	3.9	3.9	3.9	4.0	4.0	3.9	3.9	3.9	4.0	-0.2%
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	1.5%
Distribution	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	-1.0%
Fuel Consumption (quadrillion Btu) 9/													
Coal	5.15	5.15	5.16	5.18	5.38	5.64	5.85	6.12	6.43	6.71	6.85	7.02	1.8%
Natural Gas	1.27	1.31	1.44	1.53	1.54	1.48	1.45	1.35	1.30	1.24	1.28	1.27	1.4%
Oil	0.10	0.11	0.11	0.10	0.10	0.09	0.09	0.10	0.09	0.09	0.09	0.09	1.0%
Total	6.51	6.57	6.71	6.82	7.02	7.22	7.39	7.57	7.82	8.04	8.22	8.38	1.7%
Emissions (million tons) 10/													
Total Carbon	167.20	168.32	170.69	172.67	178.30	184.56	189.68	196.17	203.87	211.02	215.68	220.58	2.0%
Carbon Dioxide	613.08	617.19	625.88	633.12	653.76	676.72	695.48	719.29	747.52	773.76	790.82	808.81	2.0%
Sulfur Dioxide	2.18	2.18	2.24	2.22	2.23	2.24	2.25	2.24	2.24	2.21	2.20	2.18	-1.5%
Nitrogen Oxide	0.69	0.69	0.70	0.70	0.71	0.72	0.72	0.73	0.74	0.76	0.76	0.77	-1.6%

Table 68. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 69. Electric Power Projections for EMM Region  
Southwest Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	21.60	21.60	21.60	21.60	21.60	21.60	20.06	19.58	19.58	19.58	19.58	19.58	19.58
Other Fossil Steam 2/	13.23	13.09	13.01	12.96	11.60	10.97	10.66	10.63	10.03	8.47	7.88	7.86	7.83
Combined Cycle	3.65	9.55	11.08	11.08	11.08	11.08	11.08	11.08	10.78	10.78	10.78	10.78	11.06
Combustion Turbine/Diesel	5.25	6.49	6.92	6.92	6.86	6.75	6.75	6.75	6.07	6.02	6.02	6.02	6.02
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.18	1.18
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/	2.67	2.68	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.87	2.87	2.87	2.87
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	48.07	55.09	57.14	57.09	55.67	54.93	53.08	52.57	50.99	49.39	48.81	48.79	49.05
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
Combustion Turbine/Diesel	0.00	0.00	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
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	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19
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 Planned Additions	0.00	0.00	2.28	2.28	2.28	2.28	2.28	2.28	2.29	2.29	2.29	2.29	2.30
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	0.29
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	0.29
Cumulative Total Additions	0.00	0.00	2.28	2.28	2.28	2.28	2.28	2.28	2.29	2.29	2.29	2.29	2.58
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	1.54	2.02	2.02	2.02	2.02	2.02	2.02
Other Fossil Steam 3/	0.00	0.00	0.00	0.05	1.44	2.07	2.38	2.41	3.01	4.57	5.16	5.18	5.21
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.30	0.30	0.30
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.05	0.17	0.17	0.17	0.85	0.90	0.90	0.90	0.90
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	0.05	1.49	2.23	4.09	4.60	6.18	7.79	8.38	8.39	8.43

Table 69. Electric Power Projections for EMM Region  
Southwest Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
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
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	0.27	0.27	0.28	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	0.37	0.38
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/	0.39	0.40	0.41	0.44	0.46	0.48	0.50	0.51	0.52	0.54	0.56	0.59	0.61
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
Total	0.77	0.79	0.80	0.83	0.87	0.90	0.92	0.94	0.97	1.00	1.03	1.07	1.10
Other End Use Generators	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.13	0.14	0.14	0.14	0.14
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	59.89	61.33	62.56	63.36	64.15	65.16	66.15	67.33	68.20	69.42	70.58	71.78	72.57
Commercial/Other	61.93	61.00	61.58	63.71	65.95	68.01	69.92	71.63	73.24	74.93	76.62	78.06	79.49
Industrial	46.91	47.46	46.52	47.76	48.71	49.97	51.04	51.80	52.36	53.15	54.07	54.94	55.92
Transportation	0.92	0.92	0.94	0.97	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17
Total Sales	169.65	170.71	171.61	175.80	179.80	184.16	188.14	191.82	194.89	198.60	202.39	205.93	209.15
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	25.91	19.18	22.67	22.94	22.83	22.72	27.99	30.46	30.30	28.39	28.05	26.72	25.35
Gross Interregional Electricity Exports	19.16	19.81	20.55	19.18	21.95	21.74	21.72	21.79	20.21	18.07	16.55	14.43	11.53
Purchases from Combined Heat and Power 8	0.48	0.50	0.52	0.55	0.55	0.59	0.63	0.67	0.72	0.77	0.82	0.86	0.90
Electric Power Sector Generation for Custom	179.68	188.59	182.87	185.73	192.79	197.02	195.83	197.46	199.10	202.73	205.47	208.27	210.04
Total Net Energy for Load	186.91	188.46	185.50	190.03	194.22	198.58	202.73	206.80	209.91	213.82	217.79	221.42	224.76
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	125.47	133.15	143.26	144.11	148.54	153.12	146.91	143.87	144.65	144.69	144.71	144.75	144.78
Petroleum	1.10	0.56	0.43	0.47	0.50	0.50	0.57	0.65	0.67	0.70	0.75	0.88	0.90
Natural Gas	38.48	41.70	28.66	29.87	32.42	32.14	37.08	41.54	42.24	45.81	48.41	51.01	52.73
Nuclear	10.35	9.04	9.17	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.39	9.39	9.39
Pumped Storage/Other 3/	-0.13	-0.18	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
Renewable Sources 4/	5.13	6.61	5.77	6.44	6.50	6.44	6.44	6.59	6.45	6.45	6.44	6.46	6.48
Total Generation	180.41	190.87	187.01	189.92	196.99	201.23	200.04	201.68	203.05	206.68	209.42	212.21	213.99
Sales to Customers	179.68	188.59	182.87	185.73	192.79	197.02	195.83	197.46	199.10	202.73	205.47	208.27	210.04
Generation for Own Use	0.73	2.28	4.14	4.19	4.20	4.21	4.22	4.22	3.95	3.95	3.95	3.95	3.95
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
<b>Combined Heat and Power</b>													
Coal	0.57	0.56	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Petroleum	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05
Natural Gas	1.80	1.84	1.83	1.88	1.95	2.04	2.11	2.18	2.28	2.38	2.47	2.56	2.64
Other Gaseous Fuels	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
Renewable Sources 4/	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
Other	0.46	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Total	2.88	3.06	3.05	3.10	3.19	3.29	3.36	3.44	3.54	3.64	3.74	3.83	3.92
Other End Use Generators	0.00	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  
Southwest Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.48	0.50	0.52	0.55	0.55	0.59	0.63	0.67	0.72	0.77	0.82	0.86	0.90
Generation for Own Use	2.40	2.56	2.53	2.56	2.65	2.70	2.73	2.77	2.82	2.87	2.92	2.97	3.02
Total Electricity Generation	183.29	193.94	190.06	193.02	200.19	204.52	203.40	205.12	206.59	210.33	213.16	216.05	217.91
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.3	6.9	7.9	7.8	7.7	7.6	7.5	7.5	7.4	7.4	7.3	7.4	7.4
Commercial	6.1	5.7	6.3	6.3	6.2	6.1	6.0	6.1	6.1	6.1	6.1	6.2	6.3
Industrial	4.5	4.1	4.2	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.2	4.3
Transportation	5.7	6.0	6.0	5.9	5.9	5.7	5.7	5.8	5.8	5.8	5.8	5.9	5.9
All Sectors Average	6.1	5.7	6.3	6.3	6.2	6.1	6.0	6.0	6.0	6.0	6.0	6.1	6.2
Prices by Service Category (2002 cents per kilowatthour)													
Generation	3.5	3.1	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.8	3.9	4.0
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
Distribution	2.1	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.34	1.43	1.53	1.54	1.59	1.64	1.57	1.54	1.55	1.55	1.55	1.55	1.55
Natural Gas	0.40	0.41	0.24	0.25	0.27	0.27	0.31	0.34	0.33	0.36	0.38	0.40	0.42
Oil	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.75	1.84	1.77	1.80	1.86	1.91	1.89	1.89	1.89	1.92	1.94	1.97	1.98
Emissions (million tons) 10/													
Total Carbon	47.86	48.71	48.00	48.52	50.22	51.63	50.35	50.14	50.20	50.70	51.07	51.45	51.69
Carbon Dioxide	175.49	178.60	176.01	177.91	184.14	189.30	184.62	183.83	184.08	185.89	187.24	188.64	189.54
Sulfur Dioxide	0.43	0.41	0.41	0.42	0.41	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38
Nitrogen Oxide	0.33	0.31	0.26	0.26	0.27	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27

Table 69. Electric Power Projections for EMM Region  
Southwest Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	19.58	19.58	19.58	19.58	20.23	20.23	20.23	20.16	20.88	21.62	22.09	22.89	0.3%
Other Fossil Steam 2/	7.83	7.83	7.83	7.83	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	-2.2%
Combined Cycle	11.66	12.06	12.41	12.98	12.98	13.63	14.18	14.76	14.76	14.76	14.76	14.76	1.9%
Combustion Turbine/Diesel	6.26	6.53	6.68	6.68	6.68	6.68	6.78	6.85	6.83	6.83	6.83	6.83	0.2%
Nuclear Power	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	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	N/A
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	N/A
Renewable Sources 4/	2.88	2.88	2.88	2.89	2.89	2.89	2.93	2.94	2.94	2.94	2.94	2.95	0.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	N/A
Total Capacity	49.90	50.56	51.06	51.64	52.24	52.89	53.58	54.16	54.88	55.62	56.09	56.89	0.1%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	N/A
Combustion Turbine/Diesel	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	N/A
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	N/A
Total Planned Additions	2.30	2.30	2.30	2.31	2.31	2.31	2.31	2.32	2.32	2.32	2.32	2.33	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.65	0.65	0.65	0.65	1.37	2.11	2.58	3.38	N/A
Other Fossil 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	N/A
Combined Cycle	0.89	1.29	1.63	2.21	2.21	2.86	3.41	3.98	3.98	3.98	3.98	3.98	N/A
Combustion Turbine/Diesel	0.24	0.51	0.66	0.66	0.66	0.66	0.76	0.83	0.83	0.83	0.83	0.83	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	N/A
Total Unplanned Additions	1.13	1.80	2.30	2.87	3.52	4.17	4.86	5.51	6.24	6.98	7.45	8.24	N/A
Cumulative Total Additions	3.43	4.10	4.60	5.18	5.83	6.48	7.17	7.83	8.55	9.30	9.77	10.57	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.09	2.09	2.09	2.09	2.09	N/A
Other Fossil Steam 3/	5.21	5.21	5.21	5.21	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	N/A
Combined Cycle	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	N/A
Combustion Turbine/Diesel	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	8.43	8.43	8.43	8.43	8.48	8.48	8.48	8.56	8.57	8.57	8.57	8.57	N/A

Table 69. Electric Power Projections for EMM Region  
Southwest Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/</b>													
<b>Capacity</b>													
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	0.0%
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	N/A
Natural Gas	0.39	0.40	0.41	0.42	0.43	0.44	0.46	0.47	0.49	0.50	0.52	0.53	3.0%
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	N/A
Renewable Sources 4/	0.63	0.65	0.66	0.68	0.70	0.71	0.73	0.74	0.76	0.77	0.79	0.80	3.0%
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	N/A
Total	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45	2.7%
Other End Use Generators	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.18	0.20	0.21	3.1%
<b>Electricity Demand</b> (billion kilowatthours)													
Residential	73.58	74.60	75.76	76.69	77.74	78.90	80.15	80.88	81.94	83.12	84.50	85.43	1.5%
Commercial/Other	80.84	82.07	83.18	84.42	85.63	86.89	88.02	89.14	90.24	91.41	92.52	93.65	1.9%
Industrial	56.74	57.59	58.45	59.31	59.82	60.32	60.96	61.70	62.65	63.71	64.72	65.90	1.4%
Transportation	1.20	1.22	1.24	1.27	1.30	1.32	1.35	1.38	1.41	1.44	1.46	1.50	2.1%
Total Sales	212.36	215.48	218.63	221.69	224.49	227.43	230.48	233.10	236.23	239.67	243.20	246.48	1.6%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	N/A
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	N/A
Gross Interregional Electricity Imports	23.13	22.64	20.56	18.60	16.36	15.59	16.66	18.28	19.22	20.32	18.89	18.20	-0.2%
Gross Interregional Electricity Exports	10.14	9.07	8.12	7.11	6.93	4.66	4.40	3.85	4.41	4.37	4.08	3.96	-6.8%
Purchases from Combined Heat and Power 8	0.94	0.98	1.02	1.06	1.12	1.17	1.23	1.28	1.33	1.38	1.44	1.50	4.9%
Electric Power Sector Generation for Custom	214.20	216.75	221.19	225.32	230.27	231.84	233.50	234.07	237.19	239.69	244.53	248.25	1.2%
Total Net Energy for Load	228.13	231.30	234.65	237.88	240.81	243.94	247.00	249.78	253.33	257.02	260.78	264.00	1.5%
<b>Generation by Fuel Type</b> (billion kilowatthours)													
Coal	144.79	144.79	144.62	144.41	149.23	149.23	149.15	148.64	154.00	159.31	162.81	168.62	1.0%
Petroleum	1.14	1.61	1.55	1.25	1.00	0.92	0.97	1.91	0.95	0.87	0.92	1.03	2.7%
Natural Gas	56.60	58.55	63.05	67.64	68.00	69.65	71.36	71.46	69.97	67.27	68.54	66.57	2.1%
Nuclear	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	0.2%
Pumped Storage/Other 3/	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	2.0%
Renewable Sources 4/	6.50	6.64	6.81	6.86	6.87	6.88	6.86	6.90	7.11	7.09	7.09	6.88	0.2%
Total Generation	218.14	220.70	225.14	229.27	234.22	235.79	237.45	238.02	241.14	243.64	248.47	252.20	1.2%
Sales to Customers	214.20	216.75	221.19	225.32	230.27	231.84	233.50	234.07	237.19	239.69	244.53	248.25	1.2%
Generation for Own Use	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	2.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	N/A
<b>Combined Heat and Power</b>													
Coal	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.0%
Petroleum	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	5.6%
Natural Gas	2.72	2.80	2.89	2.99	3.10	3.21	3.33	3.44	3.56	3.68	3.81	3.95	3.4%
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	4.3%
Renewable Sources 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	2.6%
Other	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.0%
Total	4.00	4.08	4.18	4.27	4.39	4.50	4.63	4.74	4.86	4.98	5.11	5.25	2.4%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9%

Table 69. Electric Power Projections for EMM Region  
Southwest Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	0.94	0.98	1.02	1.06	1.12	1.17	1.23	1.28	1.33	1.38	1.44	1.50	4.9%
Generation for Own Use	3.06	3.11	3.16	3.21	3.27	3.33	3.40	3.46	3.53	3.60	3.68	3.76	1.7%
Total Electricity Generation	222.15	224.79	229.32	233.54	238.60	240.29	242.08	242.77	246.01	248.63	253.60	257.46	1.2%
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.5	7.5	7.6	7.6	7.5	7.4	7.4	7.4	7.4	7.3	7.3	7.3	0.3%
Commercial	6.3	6.4	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.3	6.4	6.4	0.5%
Industrial	4.4	4.4	4.5	4.5	4.5	4.4	4.4	4.5	4.4	4.4	4.4	4.4	0.4%
Transportation	6.0	6.0	6.1	6.1	6.0	6.0	5.9	6.0	5.9	5.9	5.9	5.9	-0.1%
All Sectors Average	6.2	6.3	6.3	6.3	6.3	6.2	6.2	6.3	6.2	6.2	6.2	6.2	0.4%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.1	4.1	4.2	4.3	4.2	4.2	4.2	4.3	4.2	4.2	4.3	4.3	1.4%
Transmission	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4%
Distribution	1.6	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.3	-1.8%
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.56	1.56	1.55	1.55	1.59	1.59	1.59	1.59	1.63	1.68	1.71	1.76	0.9%
Natural Gas	0.44	0.45	0.48	0.51	0.52	0.52	0.53	0.53	0.51	0.50	0.51	0.49	0.8%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	1.6%
Total	2.01	2.02	2.05	2.08	2.12	2.12	2.13	2.13	2.16	2.18	2.22	2.26	0.9%
Emissions (million tons) 10/													
Total Carbon	52.13	52.39	52.85	53.22	54.42	54.50	54.61	54.56	55.54	56.52	57.56	58.80	0.8%
Carbon Dioxide	191.14	192.11	193.80	195.13	199.55	199.83	200.23	200.05	203.64	207.25	211.06	215.59	0.8%
Sulfur Dioxide	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.38	0.38	0.38	-0.4%
Nitrogen Oxide	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	-0.4%



Table 69. Electric Power Projections for EMM Region  
Southwest Power Pool

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	11.42	11.42	11.50	11.50	11.50	11.50	11.50	11.50	12.62	13.60	13.93	14.81	14.81
Other Fossil Steam 2/	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
Combined Cycle	2.32	3.83	4.38	4.38	4.38	4.38	4.38	4.38	4.14	4.87	4.87	4.87	6.10
Combustion Turbine/Diesel	1.59	2.47	2.47	2.48	3.03	3.03	3.03	3.03	2.77	2.77	2.77	2.77	3.00
Nuclear Power	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12
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/	36.46	36.59	36.70	36.70	36.71	36.71	36.76	36.91	37.04	37.31	37.47	37.64	37.82
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.13
Total Capacity	53.92	56.45	57.18	57.19	57.74	57.75	57.80	57.95	58.73	60.70	61.22	62.32	64.01
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	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
Other Fossil 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	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
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/	0.00	0.00	0.12	0.12	0.12	0.12	0.18	0.18	0.18	0.19	0.19	0.20	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 Planned Additions	0.00	0.00	0.74	0.74	1.30	1.30	1.35	1.35	1.36	1.36	1.37	1.37	1.38
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.10	2.43	3.32	3.32
Other Fossil 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	0.73	0.73	0.73	1.95
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	0.22
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	0.15	0.27	0.56	0.72	0.89	1.06
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.13
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	1.40	3.39	3.91	5.01	6.69
Cumulative Total Additions	0.00	0.00	0.74	0.74	1.30	1.30	1.35	1.50	2.75	4.75	5.27	6.38	8.07
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	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 Fossil 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	0.23	0.23	0.23	0.23	0.23
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.26	0.26
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	0.02	0.03	0.03	0.03
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.51	0.51	0.51	0.51

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
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	0.01	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	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.22
Other Gaseous Fuels	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 Sources 4/	0.32	0.33	0.34	0.36	0.38	0.40	0.41	0.42	0.43	0.45	0.47	0.49	0.50
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	0.58	0.59	0.60	0.63	0.66	0.68	0.70	0.71	0.73	0.76	0.78	0.81	0.83
Other End Use Generators	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	64.59	62.53	72.04	72.88	73.59	74.38	75.36	76.61	77.43	78.62	79.91	81.52	82.78
Commercial/Other	63.44	60.81	70.15	71.51	73.98	76.23	78.42	80.74	83.18	85.87	88.75	92.00	95.75
Industrial	70.48	72.03	79.99	81.69	85.15	86.83	88.20	89.32	90.37	91.66	93.10	94.78	96.46
Transportation	1.60	1.61	1.87	1.93	1.99	2.05	2.10	2.15	2.20	2.25	2.31	2.36	2.42
Total Sales	200.10	196.99	224.04	228.02	234.71	239.48	244.07	248.80	253.18	258.39	264.07	270.68	277.42
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	6.72	8.04	7.12	1.65	1.69	1.70	1.77	2.39	1.94	1.54	1.40	1.23	1.73
Gross International Exports	8.23	5.58	9.52	13.24	13.26	13.29	13.32	13.34	13.37	12.43	11.47	10.50	9.53
Gross Interregional Electricity Imports	26.48	25.65	25.92	23.37	19.65	18.91	19.16	19.25	19.13	16.68	15.22	13.08	11.23
Gross Interregional Electricity Exports	33.71	45.18	29.57	32.83	29.16	27.07	25.68	24.01	21.25	26.30	24.73	24.00	24.12
Purchases from Combined Heat and Power 8	0.44	0.48	0.50	0.54	0.57	0.63	0.67	0.72	0.78	0.85	0.91	0.97	1.02
Electric Power Sector Generation for Custom	205.02	224.19	246.26	265.35	272.64	276.18	279.24	281.84	284.12	296.49	301.42	308.85	316.32
Total Net Energy for Load	196.72	207.60	240.72	244.84	252.12	257.06	261.84	266.84	271.35	276.83	282.76	289.63	296.64
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	74.75	70.81	82.50	81.36	83.47	85.32	86.93	86.93	95.28	102.55	105.03	111.60	111.60
Petroleum	1.84	0.56	0.40	0.31	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Natural Gas	21.99	12.77	17.38	19.36	24.49	26.17	27.32	28.65	28.20	24.99	26.14	25.82	32.12
Nuclear	8.25	9.05	8.90	9.02	9.06	9.06	9.06	9.06	2.34	9.14	9.14	9.14	9.14
Pumped Storage/Other 3/	0.00	0.28	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/	99.16	131.98	139.00	157.29	157.30	157.30	157.60	158.87	159.87	161.38	162.68	163.86	165.02
Total Generation	205.99	225.45	248.19	267.34	274.63	278.18	281.25	283.84	286.02	298.39	303.32	310.75	318.22
Sales to Customers	205.02	224.19	246.26	265.35	272.64	276.18	279.24	281.84	284.12	296.49	301.42	308.85	316.32
Generation for Own Use	0.97	1.27	1.93	1.99	1.99	2.00	2.00	2.00	1.90	1.90	1.90	1.90	1.90
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.06
<b>Combined Heat and Power</b>													
Coal	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
Petroleum	0.11	0.10	0.11	0.11	0.17	0.19	0.20	0.21	0.23	0.25	0.26	0.27	0.28
Natural Gas	1.35	1.38	1.37	1.40	1.46	1.53	1.57	1.63	1.71	1.78	1.85	1.92	1.98
Other Gaseous Fuels	0.08	0.10	0.12	0.12	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21
Renewable Sources 4/	0.50	0.52	0.53	0.56	0.59	0.61	0.62	0.63	0.65	0.67	0.69	0.72	0.74
Other	0.39	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Total	2.75	2.94	2.96	3.03	3.22	3.33	3.40	3.49	3.60	3.72	3.84	3.95	4.04
Other End Use Generators	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.44	0.48	0.50	0.54	0.57	0.63	0.67	0.72	0.78	0.85	0.91	0.97	1.02
Generation for Own Use	2.37	2.53	2.54	2.57	2.73	2.78	2.81	2.85	2.90	2.96	3.01	3.06	3.11
Total Electricity Generation	208.80	228.46	251.23	270.45	277.93	281.59	284.73	287.41	289.71	302.20	307.25	314.81	322.41
End-Use Prices (2002 cents per kilowatthour)													
Residential	6.3	6.8	6.3	6.4	6.4	6.4	6.5	6.6	6.9	6.8	6.9	6.9	6.9
Commercial	5.7	6.3	6.3	6.0	6.1	6.1	6.2	6.3	6.6	6.5	6.6	6.6	6.6
Industrial	4.4	4.5	3.6	3.6	3.7	3.7	3.9	4.0	4.3	4.2	4.4	4.4	4.4
Transportation	5.8	6.2	5.9	5.8	5.9	5.9	5.9	6.0	6.3	6.2	6.3	6.3	6.3
All Sectors Average	5.5	5.9	5.3	5.3	5.3	5.3	5.4	5.6	5.9	5.8	5.9	5.9	6.0
Prices by Service Category (2002 cents per kilowatthour)													
Generation	2.9	3.2	2.8	2.8	2.9	2.9	3.0	3.1	3.4	3.3	3.4	3.4	3.5
Transmission	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9
Distribution	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.80	0.77	0.88	0.87	0.89	0.91	0.93	0.93	1.01	1.07	1.09	1.15	1.15
Natural Gas	0.21	0.12	0.16	0.18	0.22	0.24	0.25	0.26	0.23	0.20	0.21	0.21	0.25
Oil	0.03	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	1.04	0.90	1.05	1.06	1.12	1.15	1.18	1.19	1.24	1.28	1.31	1.36	1.40
Emissions (million tons) 10/													
Total Carbon	29.02	27.31	27.95	27.88	29.20	29.97	30.62	30.80	32.58	33.92	34.68	36.30	36.90
Carbon Dioxide	106.42	100.13	102.48	102.22	107.08	109.90	112.28	112.93	119.44	124.36	127.16	133.09	135.30
Sulfur Dioxide	0.16	0.14	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Nitrogen Oxide	0.13	0.12	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/ (gigawatts)</b>													
Coal Steam	15.61	16.75	18.67	20.93	20.93	22.10	23.44	24.96	26.60	29.24	29.72	31.47	4.5%
Other Fossil Steam 2/	0.72	0.72	0.72	0.72	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	-0.1%
Combined Cycle	6.99	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	3.0%
Combustion Turbine/Diesel	3.00	3.18	3.18	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.22	1.1%
Nuclear Power	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%
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	N/A
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	N/A
Renewable Sources 4/	37.91	38.04	38.10	38.34	38.40	38.50	38.58	38.64	38.69	38.70	38.83	39.39	0.3%
Distributed Generation 5/	0.19	0.41	0.48	0.72	0.79	1.02	1.26	1.49	1.57	1.65	1.73	1.81	N/A
<b>Total Capacity</b>	<b>65.84</b>	<b>68.10</b>	<b>70.15</b>	<b>73.39</b>	<b>73.51</b>	<b>75.01</b>	<b>76.66</b>	<b>78.48</b>	<b>80.25</b>	<b>82.97</b>	<b>83.66</b>	<b>85.59</b>	<b>1.8%</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	N/A
Other Fossil 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	N/A
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	N/A
Combustion Turbine/Diesel	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.28	N/A
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	N/A
<b>Total Planned Additions</b>	<b>1.39</b>	<b>1.39</b>	<b>1.40</b>	<b>1.40</b>	<b>1.41</b>	<b>1.42</b>	<b>1.42</b>	<b>1.43</b>	<b>1.44</b>	<b>1.44</b>	<b>1.45</b>	<b>1.46</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	4.11	5.25	7.18	9.44	9.44	10.60	11.94	13.47	15.11	17.74	18.22	19.97	N/A
Other Fossil 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	N/A
Combined Cycle	2.84	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	N/A
Combustion Turbine/Diesel	0.22	0.41	0.41	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	1.14	1.27	1.32	1.56	1.61	1.71	1.77	1.82	1.87	1.88	2.00	2.56	N/A
Distributed Generation 5/	0.19	0.41	0.48	0.72	0.79	1.02	1.26	1.49	1.57	1.65	1.73	1.81	N/A
<b>Total Unplanned Additions</b>	<b>8.51</b>	<b>10.76</b>	<b>12.81</b>	<b>16.05</b>	<b>16.17</b>	<b>17.66</b>	<b>19.30</b>	<b>21.12</b>	<b>22.88</b>	<b>25.60</b>	<b>26.28</b>	<b>28.66</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>9.90</b>	<b>12.15</b>	<b>14.21</b>	<b>17.45</b>	<b>17.58</b>	<b>19.08</b>	<b>20.72</b>	<b>22.55</b>	<b>24.32</b>	<b>27.04</b>	<b>27.73</b>	<b>30.12</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Combined Cycle	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	N/A
Combustion Turbine/Diesel	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.71	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 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	N/A
<b>Total</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>	<b>0.98</b>	<b>N/A</b>

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
<b>Combined Heat and Power 8/</b>														
<b>Capacity</b>														
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.8%
Natural Gas	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.31	0.31	3.0%
Other Gaseous Fuels	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	1.8%
Renewable Sources 4/	0.52	0.54	0.55	0.56	0.58	0.59	0.60	0.61	0.62	0.64	0.65	0.66	0.66	3.0%
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	N/A
Total	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.09	1.09	2.7%
Other End Use Generators	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.14	0.14	0.15	0.16	0.17	0.17	3.1%
<b>Electricity Demand</b> (billion kilowatthours)														
Residential	84.11	85.34	86.67	87.60	88.76	90.13	91.70	92.63	93.82	95.09	96.59	97.64	97.64	2.0%
Commercial/Other	99.30	102.58	105.60	108.79	112.04	115.43	118.79	122.13	125.45	129.01	132.66	136.58	136.58	3.6%
Industrial	98.01	99.51	101.08	102.93	104.85	106.40	108.05	109.69	111.74	114.00	116.29	118.82	118.82	2.2%
Transportation	2.48	2.54	2.60	2.67	2.73	2.80	2.87	2.94	3.02	3.09	3.17	3.24	3.24	3.1%
Total Sales	283.89	289.97	295.95	301.98	308.39	314.77	321.42	327.40	334.03	341.18	348.70	356.27	356.27	2.6%
<b>Net Energy for Load (billion kilowatthours) 7/</b>														
Gross International Imports	1.95	1.60	1.41	0.40	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	8.56	7.60	6.63	5.66	4.70	4.21	3.73	3.73	3.73	3.73	3.73	3.73	3.73	-1.7%
Gross Interregional Electricity Imports	9.47	7.91	6.40	4.42	3.00	2.13	1.09	0.90	0.58	0.12	0.12	0.00	0.00	-36.0%
Gross Interregional Electricity Exports	24.86	26.04	27.60	32.08	32.44	30.36	36.64	41.74	44.41	47.13	45.00	47.36	47.36	0.2%
Purchases from Combined Heat and Power 8	1.07	1.11	1.15	1.20	1.26	1.33	1.39	1.44	1.48	1.53	1.58	1.64	1.64	5.5%
Electric Power Sector Generation for Custom	323.98	332.24	340.86	353.67	361.10	366.57	380.41	391.94	402.00	412.81	418.69	429.18	429.18	2.9%
Total Net Energy for Load	303.05	309.23	315.60	321.95	328.78	335.53	342.52	348.81	355.93	363.60	371.66	379.73	379.73	2.7%
<b>Generation by Fuel Type</b> (billion kilowatthours)														
Coal	117.48	125.98	140.30	156.69	157.00	165.49	175.28	186.09	197.43	212.88	217.21	228.42	228.42	5.2%
Petroleum	0.90	0.95	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	-2.3%
Natural Gas	32.67	31.51	25.99	20.97	27.62	23.70	27.17	27.44	25.73	21.03	21.79	18.22	18.22	1.6%
Nuclear	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	0.0%
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	N/A
Renewable Sources 4/	165.70	166.56	167.01	168.44	168.90	169.80	170.38	170.83	171.27	171.33	172.11	174.79	174.79	1.2%
Total Generation	325.88	334.15	342.76	355.57	362.99	368.46	382.30	393.84	403.90	414.71	420.59	430.90	430.90	2.9%
Sales to Customers	323.98	332.24	340.86	353.67	361.10	366.57	380.41	391.94	402.00	412.81	418.69	429.18	429.18	2.9%
Generation for Own Use	1.90	1.90	1.90	1.90	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.72	1.72	1.3%
Distributed Generation 5/	0.08	0.18	0.21	0.32	0.35	0.45	0.55	0.65	0.69	0.72	0.76	0.79	0.79	N/A
<b>Combined Heat and Power</b>														
Coal	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%
Petroleum	0.29	0.30	0.30	0.31	0.32	0.34	0.35	0.36	0.36	0.36	0.36	0.36	0.36	5.6%
Natural Gas	2.04	2.10	2.16	2.23	2.32	2.40	2.49	2.57	2.66	2.75	2.85	2.95	2.95	3.4%
Other Gaseous Fuels	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26	0.27	0.27	4.3%
Renewable Sources 4/	0.76	0.78	0.80	0.81	0.83	0.85	0.86	0.88	0.89	0.91	0.92	0.94	0.94	2.6%
Other	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.0%
Total	4.14	4.23	4.32	4.42	4.54	4.66	4.79	4.89	5.00	5.11	5.23	5.36	5.36	2.6%
Other End Use Generators	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	1.9%

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	1.07	1.11	1.15	1.20	1.26	1.33	1.39	1.44	1.48	1.53	1.58	1.64	5.5%
Generation for Own Use	3.16	3.21	3.26	3.31	3.37	3.43	3.49	3.55	3.62	3.68	3.75	3.83	1.8%
Total Electricity Generation	330.20	338.64	347.39	360.40	367.97	373.67	387.74	399.48	409.68	420.65	426.68	437.16	2.9%
End-Use Prices (2002 cents per kilowatthour)													
Residential	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1	0.2%
Commercial	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.8	6.8	0.4%
Industrial	4.4	4.4	4.4	4.3	4.4	4.3	4.3	4.3	4.3	4.2	4.3	4.3	-0.2%
Transportation	6.4	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.0%
All Sectors Average	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.1	0.1%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.5	3.6	3.6	0.5%
Transmission	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.7%
Distribution	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-1.0%
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.20	1.27	1.39	1.53	1.54	1.61	1.69	1.79	1.88	2.01	2.05	2.15	4.5%
Natural Gas	0.25	0.24	0.20	0.17	0.21	0.19	0.21	0.21	0.20	0.17	0.18	0.14	0.8%
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	-3.3%
Total	1.45	1.52	1.60	1.71	1.75	1.80	1.91	2.00	2.09	2.19	2.23	2.29	4.2%
Emissions (million tons) 10/													
Total Carbon	38.44	40.39	43.27	46.77	47.57	49.28	52.09	54.79	57.39	60.67	61.83	64.04	3.8%
Carbon Dioxide	140.94	148.09	158.65	171.49	174.41	180.70	191.01	200.91	210.43	222.45	226.69	234.80	3.8%
Sulfur Dioxide	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	-0.5%
Nitrogen Oxide	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	2.9%

Table 70. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Northwest Power Pool Area

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 71. Electric Power Projections for EMM Region  
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	15.61	15.61	15.61	15.61	15.61	15.50	15.50	15.50	15.50	15.50	15.50	15.50	16.86
Other Fossil Steam 2/	2.79	2.79	2.68	2.68	2.68	2.64	2.64	2.64	2.14	2.05	1.40	1.40	1.40
Combined Cycle	5.12	8.85	14.97	16.07	16.07	16.07	16.07	16.07	15.69	15.69	15.69	15.69	15.69
Combustion Turbine/Diesel	3.39	5.21	5.64	5.64	5.64	5.64	5.64	5.64	4.43	4.43	4.43	4.43	4.43
Nuclear Power	2.71	2.71	2.73	2.73	2.75	2.75	2.78	2.78	2.78	2.78	2.78	2.78	2.78
Pumped Storage/Other 3/	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
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	6.13	6.66	6.67	6.82	6.87	6.89	6.92	6.97	7.00	7.05	7.08	7.22
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 Capacity	36.49	42.04	49.04	50.15	50.32	50.22	50.27	50.30	48.25	48.19	47.60	47.62	49.12
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	6.12	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23
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	0.53	0.54	0.69	0.74	0.77	0.80	0.85	0.88	0.93	0.96	1.00
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 Planned Additions	0.00	0.00	7.09	8.20	8.35	8.40	8.43	8.45	8.51	8.53	8.59	8.61	8.66
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36
Other Fossil 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	0.09
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 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	1.45
Cumulative Total Additions	0.00	0.00	7.09	8.20	8.35	8.40	8.43	8.45	8.51	8.53	8.59	8.61	10.11
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.54	0.63	1.28	1.28	1.28
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.38	0.38	0.38	0.38
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21	1.21	1.21	1.21
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.00	0.00	0.00	0.00	0.01	0.16	0.16	0.16	2.25	2.34	2.99	2.99	2.99

Table 71. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
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	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11
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/	0.00	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	0.00	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	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	56.18	58.68	59.26	59.83	60.72	61.83	63.15	64.74	65.99	67.55	69.00	70.59	71.74
Commercial/Other	60.00	59.91	59.54	60.60	62.47	64.20	66.08	68.23	70.66	73.38	76.14	78.80	81.47
Industrial	33.01	34.36	33.07	33.78	34.80	35.73	36.31	36.90	37.28	37.81	38.38	39.03	39.70
Transportation	0.93	0.97	0.98	1.01	1.05	1.08	1.12	1.15	1.18	1.22	1.25	1.29	1.33
Total Sales	150.13	153.91	152.84	155.23	159.05	162.84	166.66	171.01	175.11	179.96	184.76	189.72	194.24
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
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	21.14	17.92	18.60	17.28	20.35	20.22	20.44	20.30	19.77	18.15	16.54	14.66	11.81
Gross Interregional Electricity Exports	66.95	48.18	69.37	48.56	52.93	54.95	57.55	60.00	59.73	49.88	48.34	45.23	45.55
Purchases from Combined Heat and Power 8	0.15	0.16	0.17	0.17	0.18	0.19	0.21	0.22	0.24	0.26	0.28	0.29	0.31
Electric Power Sector Generation for Custom	201.99	199.63	217.52	200.50	205.80	211.80	218.18	225.19	229.72	226.62	231.74	235.65	243.41
Total Net Energy for Load	156.34	169.54	166.92	169.39	173.40	177.26	181.27	185.72	190.00	195.15	200.22	205.38	209.97
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	127.69	124.14	115.09	113.43	115.93	117.27	119.10	119.10	119.10	119.10	119.10	119.10	129.20
Petroleum	0.58	0.13	1.02	0.95	0.95	0.97	0.97	0.98	0.26	0.26	0.26	0.26	0.30
Natural Gas	37.18	39.86	64.07	46.31	48.31	52.55	56.66	63.49	68.28	64.95	69.83	73.54	70.47
Nuclear	20.85	22.40	22.29	22.50	22.73	22.73	22.95	22.95	22.95	22.95	22.95	22.95	22.95
Pumped Storage/Other 3/	0.03	-0.10	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
Renewable Sources 4/	16.95	15.57	18.78	21.07	21.66	22.07	22.30	22.50	22.81	23.04	23.29	23.50	24.19
Total Generation	203.28	202.02	221.02	204.04	209.37	215.38	221.76	228.79	233.18	230.08	235.20	239.12	246.89
Sales to Customers	201.99	199.63	217.52	200.50	205.80	211.80	218.18	225.19	229.72	226.62	231.74	235.65	243.41
Generation for Own Use	1.28	2.38	3.50	3.54	3.56	3.58	3.59	3.60	3.45	3.46	3.46	3.47	3.48
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
<b>Combined Heat and Power</b>													
Coal	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Petroleum	0.03	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07
Natural Gas	0.56	0.57	0.57	0.59	0.61	0.64	0.66	0.68	0.71	0.74	0.77	0.80	0.82
Other Gaseous Fuels	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
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
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	0.92	0.93	0.93	0.95	1.00	1.03	1.05	1.08	1.12	1.16	1.19	1.22	1.25
Other End Use Generators	0.00	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  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	0.15	0.16	0.17	0.17	0.18	0.19	0.21	0.22	0.24	0.26	0.28	0.29	0.31
Generation for Own Use	0.77	0.77	0.77	0.77	0.82	0.84	0.85	0.86	0.88	0.89	0.91	0.93	0.94
Total Electricity Generation	204.20	202.95	221.95	204.99	210.36	216.41	222.82	229.87	234.29	231.23	236.39	240.35	248.14
End-Use Prices (2002 cents per kilowatthour)													
Residential	8.4	8.3	8.3	8.3	8.6	8.5	8.3	8.3	8.2	8.1	8.1	8.1	8.2
Commercial	7.1	7.1	7.1	7.1	7.2	7.1	7.0	6.9	6.8	6.7	6.7	6.8	6.8
Industrial	5.3	5.4	4.8	5.1	5.2	5.2	5.1	5.1	5.1	4.9	5.0	5.0	5.0
Transportation	7.0	7.0	6.9	7.3	7.5	7.4	7.3	7.2	7.2	7.1	7.1	7.2	7.3
All Sectors Average	7.1	7.1	7.0	7.1	7.3	7.2	7.1	7.1	7.0	6.8	6.9	6.9	7.0
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.5	4.5	4.5	4.5	4.7	4.6	4.5	4.5	4.4	4.3	4.3	4.4	4.5
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.34	1.31	1.20	1.19	1.21	1.23	1.25	1.25	1.25	1.25	1.25	1.25	1.34
Natural Gas	0.36	0.34	0.52	0.39	0.41	0.44	0.47	0.52	0.56	0.53	0.57	0.60	0.57
Oil	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Total	1.71	1.65	1.73	1.58	1.63	1.68	1.73	1.78	1.81	1.78	1.82	1.85	1.91
Emissions (million tons) 10/													
Total Carbon	45.22	41.00	42.57	40.00	41.04	42.00	43.05	43.93	44.26	43.84	44.45	44.93	46.99
Carbon Dioxide	165.82	150.32	156.07	146.67	150.48	153.99	157.85	161.08	162.29	160.76	163.00	164.74	172.30
Sulfur Dioxide	0.13	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Nitrogen Oxide	0.30	0.28	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23

Table 71. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
Coal Steam	18.19	20.56	20.56	23.09	23.09	23.83	25.05	26.34	27.66	28.94	29.76	30.79	3.0%
Other Fossil Steam 2/	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	-3.0%
Combined Cycle	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	2.5%
Combustion Turbine/Diesel	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	-0.7%
Nuclear Power	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	0.1%
Pumped Storage/Other 3/	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	N/A
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	N/A
Renewable Sources 4/	7.27	7.31	7.32	7.32	7.32	7.38	7.43	7.43	7.44	7.44	7.58	7.75	1.0%
Distributed Generation 5/	0.02	0.05	0.07	0.13	0.15	0.21	0.27	0.33	0.39	0.45	0.48	0.50	N/A
Total Capacity	50.52	52.96	52.98	55.57	55.60	56.46	57.78	59.14	60.53	61.87	62.85	64.08	1.8%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	1.05	1.10	1.10	1.10	1.11	1.11	1.11	1.12	1.12	1.12	1.13	1.13	N/A
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	N/A
Total Planned Additions	8.71	8.75	8.75	8.76	8.76	8.76	8.77	8.77	8.78	8.78	8.78	8.79	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	2.68	5.06	5.06	7.59	7.59	8.33	9.54	10.84	12.16	13.43	14.25	15.29	N/A
Other Fossil 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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.09	0.09	0.09	0.09	0.09	0.14	0.19	0.19	0.19	0.19	0.33	0.50	N/A
Distributed Generation 5/	0.02	0.05	0.07	0.13	0.15	0.21	0.27	0.33	0.39	0.45	0.48	0.50	N/A
Total Unplanned Additions	2.80	5.20	5.22	7.81	7.83	8.68	10.01	11.36	12.74	14.08	15.06	16.29	N/A
Cumulative Total Additions	11.51	13.95	13.97	16.56	16.59	17.44	18.77	20.13	21.52	22.86	23.84	25.07	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	N/A
Other Fossil Steam 3/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	N/A
Combined Cycle	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	N/A
Combustion Turbine/Diesel	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Total	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	N/A

Table 71. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
<b>Combined Heat and Power 8/</b>														
<b>Capacity</b>														
Coal	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%
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	N/A
Natural Gas	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	3.0%
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	N/A
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	N/A
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	N/A
Total	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	1.9%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Electricity Demand</b> (billion kilowatthours)														
Residential	73.12	74.56	76.16	77.45	78.88	80.52	82.32	83.57	85.06	86.69	88.52	89.97	89.97	1.9%
Commercial/Other	84.18	86.89	89.45	92.32	95.23	98.21	101.10	103.95	106.70	109.82	113.00	116.59	116.59	2.9%
Industrial	40.31	40.90	41.50	42.22	42.98	43.52	44.12	44.70	45.47	46.34	47.22	48.16	48.16	1.5%
Transportation	1.37	1.41	1.45	1.50	1.54	1.59	1.64	1.68	1.73	1.78	1.84	1.89	1.89	3.0%
Total Sales	198.99	203.76	208.56	213.48	218.63	223.85	229.19	233.91	238.97	244.63	250.57	256.62	256.62	2.2%
<b>Net Energy for Load (billion kilowatthours) 7/</b>														
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	N/A
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	N/A
Gross Interregional Electricity Imports	9.95	8.06	6.69	4.71	3.99	2.78	2.41	2.71	3.44	4.14	3.78	3.88	3.88	-6.4%
Gross Interregional Electricity Exports	44.27	46.14	38.19	37.70	36.40	37.24	36.35	35.46	36.01	34.49	34.55	34.30	34.30	-1.5%
Purchases from Combined Heat and Power 8	0.32	0.33	0.35	0.36	0.38	0.40	0.42	0.44	0.45	0.47	0.49	0.51	0.51	5.1%
Electric Power Sector Generation for Custom	248.86	257.48	256.07	263.12	268.03	275.62	280.77	284.59	289.78	293.60	300.35	306.47	306.47	1.9%
Total Net Energy for Load	214.86	219.74	224.92	230.49	236.00	241.55	247.25	252.28	257.67	263.72	270.07	276.56	276.56	2.2%
<b>Generation by Fuel Type</b> (billion kilowatthours)														
Coal	139.05	156.69	156.67	174.90	175.32	180.65	188.63	197.01	205.47	213.37	218.81	225.24	225.24	2.6%
Petroleum	0.34	0.36	0.36	0.34	0.31	0.26	0.29	0.33	0.33	0.32	0.32	0.17	0.17	1.0%
Natural Gas	65.78	56.49	55.02	43.85	48.36	50.26	47.00	42.37	39.07	35.00	35.58	34.58	34.58	-0.6%
Nuclear	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	0.1%
Pumped Storage/Other 3/	-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	3.5%
Renewable Sources 4/	24.45	24.72	24.79	24.80	24.81	25.21	25.62	25.65	25.68	25.69	26.42	27.26	27.26	2.5%
Total Generation	252.35	260.98	259.57	266.62	271.53	279.12	284.27	288.09	293.28	297.10	303.85	309.97	309.97	1.9%
Sales to Customers	248.86	257.48	256.07	263.12	268.03	275.62	280.77	284.59	289.78	293.60	300.35	306.47	306.47	1.9%
Generation for Own Use	3.49	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	1.7%
Distributed Generation 5/	0.01	0.02	0.03	0.06	0.06	0.09	0.12	0.14	0.17	0.20	0.21	0.22	0.22	N/A
<b>Combined Heat and Power</b>														
Coal	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	0.0%
Petroleum	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	5.6%
Natural Gas	0.85	0.87	0.90	0.93	0.97	1.00	1.04	1.07	1.11	1.15	1.19	1.23	1.23	3.4%
Other Gaseous Fuels	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	4.3%
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	N/A
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	1.28	1.31	1.34	1.37	1.41	1.45	1.49	1.53	1.57	1.60	1.65	1.69	1.69	2.6%
Other End Use Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 71. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	0.32	0.33	0.35	0.36	0.38	0.40	0.42	0.44	0.45	0.47	0.49	0.51	5.1%
Generation for Own Use	0.96	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.14	1.16	1.19	1.9%
<b>Total Electricity Generation</b>	<b>253.64</b>	<b>262.31</b>	<b>260.94</b>	<b>268.04</b>	<b>273.00</b>	<b>280.66</b>	<b>285.88</b>	<b>289.76</b>	<b>295.02</b>	<b>298.91</b>	<b>305.70</b>	<b>311.88</b>	<b>1.9%</b>
<b>End-Use Prices</b> (2002 cents per kilowatthour)													
Residential	8.3	8.3	8.3	8.2	8.2	8.1	8.1	8.1	8.1	8.0	8.1	8.0	-0.2%
Commercial	6.9	6.9	6.9	6.8	6.9	6.7	6.8	6.8	6.9	6.8	6.9	6.9	-0.1%
Industrial	5.1	5.0	5.0	4.9	5.0	4.8	4.8	4.9	4.8	4.7	4.8	4.7	-0.6%
Transportation	7.3	7.3	7.3	7.1	7.2	7.0	7.0	7.1	7.0	6.9	7.0	6.9	-0.1%
All Sectors Average	7.0	7.0	7.0	6.9	7.0	6.9	6.9	6.9	6.9	6.8	6.9	6.9	-0.2%
<b>Prices by Service Category</b> (2002 cents per kilowatthour)													
Generation	4.5	4.5	4.5	4.4	4.4	4.3	4.3	4.4	4.4	4.3	4.4	4.3	-0.2%
Transmission	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6%
Distribution	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	-0.7%
<b>Fuel Consumption (quadrillion Btu) 9/</b>													
Coal	1.42	1.57	1.57	1.73	1.73	1.78	1.84	1.91	1.98	2.05	2.09	2.14	2.2%
Natural Gas	0.53	0.46	0.45	0.37	0.40	0.42	0.39	0.36	0.33	0.30	0.30	0.30	-0.6%
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	0.0%
Total	1.96	2.04	2.03	2.09	2.13	2.19	2.24	2.27	2.32	2.35	2.40	2.44	1.7%
<b>Emissions (million tons) 10/</b>													
Total Carbon	48.78	51.86	51.67	54.60	55.30	56.76	58.23	59.59	61.12	62.44	63.81	65.18	2.0%
Carbon Dioxide	178.86	190.14	189.47	200.21	202.75	208.14	213.49	218.48	224.11	228.96	233.98	239.01	2.0%
Sulfur Dioxide	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.0%
Nitrogen Oxide	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	-0.3%

Table 71. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	5.19	6.66	7.27	8.18	8.96
Other Fossil Steam 2/	19.67	19.55	18.52	18.52	18.52	18.52	18.52	18.52	18.34	18.34	18.34	18.34	18.34
Combined Cycle	3.93	6.19	8.87	9.98	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51
Combustion Turbine/Diesel	6.02	6.98	7.90	7.90	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.95	8.60
Nuclear Power	5.35	5.35	5.36	5.36	5.36	5.36	5.37	5.37	5.37	5.37	5.37	5.37	5.37
Pumped Storage/Other 3/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
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/	15.33	15.47	15.72	15.69	15.77	16.16	16.45	16.69	16.80	16.90	17.08	17.28	17.48
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.13
Total Capacity	58.66	61.90	64.73	65.81	66.41	66.79	67.10	67.34	67.83	69.40	70.22	71.42	73.12
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	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 Fossil 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	2.68	3.79	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32
Combustion Turbine/Diesel	0.00	0.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
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	0.25	0.32	0.41	0.79	1.00	1.21	1.21	1.21	1.22	1.22	1.23
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	3.97	5.16	5.77	6.16	6.36	6.57	6.57	6.58	6.58	6.59	6.59
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	2.03	2.64	3.55	4.33
Other Fossil 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	0.06	0.71
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	0.09	0.12	0.22	0.33	0.50	0.69	0.89
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.13
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.79	2.36	3.17	4.36	6.06
Cumulative Total Additions	0.00	0.00	3.97	5.16	5.77	6.16	6.45	6.69	7.36	8.93	9.75	10.95	12.65
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	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 Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.18	0.18
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Total	0.00	0.00	0.00	0.11	0.13	0.13	0.13	0.13	0.30	0.30	0.30	0.30	0.30



Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	0.09	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Petroleum	0.11	0.10	0.10	0.10	0.13	0.14	0.14	0.15	0.16	0.18	0.19	0.19	0.20
Natural Gas	2.37	2.40	2.42	2.48	2.57	2.67	2.74	2.82	2.92	3.03	3.12	3.22	3.30
Other Gaseous Fuels	0.17	0.19	0.19	0.19	0.22	0.23	0.23	0.23	0.24	0.24	0.25	0.25	0.25
Renewable Sources 4/	0.15	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23
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
Total	2.93	3.00	3.02	3.09	3.25	3.37	3.45	3.54	3.67	3.80	3.92	4.03	4.13
Other End Use Generators	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	73.73	72.12	73.58	74.52	75.05	75.60	76.29	77.22	77.73	78.59	79.68	81.16	82.36
Commercial/Other	98.57	96.59	99.57	101.65	105.41	108.81	111.90	114.97	118.05	121.35	125.06	129.72	135.49
Industrial	56.66	59.98	59.32	60.59	63.59	64.57	65.57	66.26	67.10	68.07	69.17	70.46	71.75
Transportation	2.02	2.11	2.17	2.24	2.30	2.36	2.41	2.46	2.51	2.57	2.63	2.69	2.75
Total Sales	230.98	230.80	234.64	238.99	246.36	251.33	256.16	260.92	265.39	270.57	276.55	284.03	292.34
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	0.00	0.16	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Gross International Exports	0.30	1.31	1.32	1.36	1.41	1.46	1.51	1.56	1.61	1.67	1.67	1.67	1.67
Gross Interregional Electricity Imports	78.95	71.96	76.76	60.16	60.39	60.42	61.21	61.97	59.01	56.64	55.45	53.69	55.85
Gross Interregional Electricity Exports	11.01	11.00	10.09	8.41	7.97	8.04	8.21	8.41	8.29	7.17	6.37	5.63	4.78
Purchases from Combined Heat and Power 8	3.32	3.43	3.54	3.79	3.79	4.16	4.46	4.79	5.18	5.59	5.96	6.32	6.64
Electric Power Sector Generation for Custom	207.70	187.83	186.14	205.34	212.46	217.33	221.45	225.49	232.52	238.72	245.03	253.49	258.82
Total Net Energy for Load	278.66	251.06	255.04	259.52	267.28	272.42	277.42	282.29	286.82	292.12	298.41	306.20	314.87
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	27.62	27.34	34.33	33.72	34.42	35.13	35.75	35.75	39.95	50.80	55.35	62.13	67.87
Petroleum	2.46	1.96	1.59	0.84	1.87	1.90	1.91	1.92	1.42	1.33	1.35	1.36	1.40
Natural Gas	98.24	72.22	61.14	76.15	80.86	82.94	84.17	86.80	88.94	83.50	84.14	84.63	83.01
Nuclear	41.09	42.80	42.33	42.82	43.08	43.14	43.29	43.36	43.42	43.49	43.56	43.62	43.69
Pumped Storage/Other 3/	-0.34	-0.17	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95
Renewable Sources 4/	42.25	48.03	54.85	59.98	60.45	62.49	64.68	66.08	67.17	67.97	69.01	70.11	71.23
Total Generation	211.32	192.18	193.30	212.57	219.73	224.66	228.86	232.96	239.94	246.14	252.46	260.92	266.25
Sales to Customers	207.70	187.83	186.14	205.34	212.46	217.33	221.45	225.49	232.52	238.72	245.03	253.49	258.82
Generation for Own Use	3.62	4.35	7.16	7.23	7.27	7.33	7.41	7.48	7.42	7.42	7.43	7.43	7.43
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.06
<b>Combined Heat and Power</b>													
Coal	0.43	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Petroleum	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
Natural Gas	14.60	14.93	14.82	15.23	15.82	16.54	17.08	17.71	18.49	19.31	20.07	20.80	21.43
Other Gaseous Fuels	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 Sources 4/	0.68	0.71	0.73	0.77	0.80	0.83	0.85	0.87	0.89	0.92	0.95	0.98	1.01
Other	0.78	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Total	16.50	17.10	17.00	17.46	18.09	18.84	19.40	20.05	20.86	21.70	22.49	23.25	23.93
Other End Use Generators	0.08	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	3.32	3.43	3.54	3.79	3.79	4.16	4.46	4.79	5.18	5.59	5.96	6.32	6.64
Generation for Own Use	13.26	13.77	13.56	13.77	14.40	14.79	15.04	15.37	15.79	16.23	16.65	17.05	17.40
Total Electricity Generation	227.90	209.38	210.40	230.13	237.92	243.61	248.36	253.12	260.91	267.96	275.08	284.31	290.35
End-Use Prices (2002 cents per kilowatthour)													
Residential	12.9	13.0	12.6	12.6	12.6	12.5	12.4	12.3	12.2	12.1	11.7	11.3	10.7
Commercial	12.7	13.3	13.6	13.2	12.9	12.8	12.7	12.6	12.4	12.3	11.8	11.2	9.9
Industrial	10.0	10.9	8.6	8.6	8.5	8.4	8.3	8.2	8.1	8.0	7.7	7.2	6.2
Transportation	11.7	12.1	10.7	10.6	10.4	10.3	10.2	10.1	10.0	9.9	9.7	9.6	9.5
All Sectors Average	12.0	12.6	12.0	11.8	11.6	11.6	11.4	11.4	11.3	11.2	10.7	10.2	9.2
Prices by Service Category (2002 cents per kilowatthour)													
Generation	9.0	9.5	9.0	8.8	8.6	8.6	8.5	8.4	8.3	8.1	7.7	7.2	6.2
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
Distribution	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.3	2.3	2.3
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.27	0.27	0.35	0.34	0.35	0.36	0.36	0.36	0.40	0.50	0.54	0.60	0.64
Natural Gas	1.00	0.68	0.58	0.70	0.74	0.75	0.76	0.79	0.80	0.76	0.77	0.77	0.76
Oil	0.03	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Total	1.30	0.98	0.95	1.05	1.11	1.13	1.15	1.17	1.22	1.27	1.32	1.38	1.42
Emissions (million tons) 10/													
Total Carbon	20.52	19.96	19.43	20.99	22.03	22.50	22.84	23.18	24.36	26.28	27.51	29.25	30.43
Carbon Dioxide	75.24	73.20	71.24	76.97	80.78	82.51	83.75	85.00	89.32	96.37	100.85	107.26	111.56
Sulfur Dioxide	0.06	0.05	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07
Nitrogen Oxide	0.01	0.01	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/ (gigawatts)</b>													
Coal Steam	9.77	9.77	11.89	11.89	11.89	11.89	11.89	11.89	12.54	14.39	15.55	16.80	5.8%
Other Fossil Steam 2/	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	-0.3%
Combined Cycle	10.51	10.82	10.82	11.54	12.54	12.54	12.54	12.54	12.54	12.54	12.54	12.54	3.1%
Combustion Turbine/Diesel	9.62	12.09	13.01	14.58	14.67	15.50	16.28	17.59	19.01	19.25	19.65	20.28	4.8%
Nuclear Power	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	0.0%
Pumped Storage/Other 3/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	N/A
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	N/A
Renewable Sources 4/	17.76	18.25	18.45	18.53	18.63	19.03	20.71	21.80	21.86	21.92	22.03	22.22	1.6%
Distributed Generation 5/	0.21	0.31	0.67	1.04	1.39	1.72	2.04	2.36	2.69	3.02	3.35	3.69	N/A
Total Capacity	75.32	78.68	82.29	85.02	86.57	88.13	90.91	93.63	96.08	98.56	100.58	102.98	2.2%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil 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	N/A
Combined Cycle	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	N/A
Combustion Turbine/Diesel	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	1.24	1.24	1.25	1.26	1.27	1.27	1.28	1.29	1.30	1.30	1.31	1.32	N/A
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	N/A
Total Planned Additions	6.60	6.61	6.61	6.62	6.63	6.64	6.64	6.65	6.66	6.67	6.67	6.68	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	5.14	5.14	7.26	7.26	7.26	7.26	7.26	7.26	7.91	9.76	10.92	12.17	N/A
Other Fossil 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	N/A
Combined Cycle	0.00	0.31	0.31	1.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	N/A
Combustion Turbine/Diesel	1.73	4.20	5.12	6.69	6.79	7.61	8.39	9.70	11.12	11.36	11.77	12.40	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	1.16	1.64	1.84	1.91	2.00	2.39	4.07	5.15	5.20	5.25	5.36	5.53	N/A
Distributed Generation 5/	0.21	0.31	0.67	1.04	1.39	1.72	2.04	2.36	2.69	3.02	3.35	3.69	N/A
Total Unplanned Additions	8.25	11.61	15.20	17.93	19.47	21.02	23.80	26.51	28.96	31.43	33.44	35.83	N/A
Cumulative Total Additions	14.85	18.22	21.82	24.55	26.10	27.66	30.44	33.16	35.62	38.09	40.11	42.51	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	N/A
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	N/A
Combustion Turbine/Diesel	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	N/A
Total	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	N/A

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	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%
Petroleum	0.21	0.21	0.21	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.25	3.8%
Natural Gas	3.38	3.47	3.57	3.66	3.78	3.90	4.03	4.15	4.27	4.40	4.54	4.69	3.0%
Other Gaseous Fuels	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	1.8%
Renewable Sources 4/	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31	3.0%
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	N/A
Total	4.24	4.33	4.44	4.55	4.69	4.83	4.98	5.10	5.24	5.38	5.53	5.69	2.8%
Other End Use Generators	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	83.54	84.54	85.60	86.24	87.14	88.22	89.52	90.18	91.08	92.03	93.21	93.92	1.2%
Commercial/Other	140.76	145.40	149.61	153.89	158.25	162.85	167.48	172.11	176.81	181.64	186.63	191.77	3.0%
Industrial	72.92	74.08	75.29	76.71	78.16	79.41	80.71	82.03	83.64	85.37	87.15	89.13	1.7%
Transportation	2.81	2.87	2.93	2.99	3.06	3.13	3.20	3.27	3.35	3.42	3.50	3.57	2.3%
Total Sales	300.03	306.89	313.43	319.82	326.60	333.61	340.92	347.60	354.87	362.46	370.48	378.39	2.2%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-11.5%
Gross International Exports	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.0%
Gross Interregional Electricity Imports	57.11	61.44	56.96	60.55	62.55	62.31	67.57	71.14	74.09	73.97	72.63	73.62	0.1%
Gross Interregional Electricity Exports	3.98	3.36	2.80	1.84	1.24	0.73	0.16	0.00	0.00	0.00	0.01	0.24	-15.4%
Purchases from Combined Heat and Power 8	6.96	7.27	7.62	7.98	8.41	8.85	9.31	9.71	10.14	10.57	11.05	11.55	5.4%
Electric Power Sector Generation for Custom	264.52	266.35	276.72	278.49	282.53	289.22	290.64	293.57	297.86	305.56	314.90	322.04	2.4%
Total Net Energy for Load	322.96	330.04	336.84	343.51	350.59	357.98	365.70	372.76	380.42	388.44	396.92	405.31	2.1%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	73.97	73.97	89.69	89.65	89.61	89.61	89.61	89.42	94.06	106.30	113.84	121.80	6.7%
Petroleum	1.54	1.76	1.63	1.40	1.64	1.29	1.27	1.82	1.95	1.79	2.00	1.63	-0.8%
Natural Gas	81.02	80.34	73.93	75.27	78.48	83.51	78.14	76.01	74.98	70.07	70.93	69.35	-0.2%
Nuclear	43.76	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	0.1%
Pumped Storage/Other 3/	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	7.8%
Renewable Sources 4/	72.61	74.85	76.04	76.73	77.36	79.38	86.19	90.89	91.46	91.98	92.71	93.85	3.0%
Total Generation	271.96	273.79	284.16	285.93	289.98	296.66	298.09	301.02	305.31	313.02	322.36	329.51	2.4%
Sales to Customers	264.52	266.35	276.72	278.49	282.53	289.22	290.64	293.57	297.86	305.56	314.90	322.04	2.4%
Generation for Own Use	7.43	7.44	7.44	7.44	7.44	7.45	7.45	7.45	7.46	7.46	7.46	7.46	2.4%
Distributed Generation 5/	0.09	0.14	0.29	0.46	0.61	0.75	0.89	1.03	1.18	1.32	1.47	1.61	N/A
<b>Combined Heat and Power</b>													
Coal	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.0%
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	5.6%
Natural Gas	22.09	22.74	23.47	24.23	25.12	26.04	27.03	27.92	28.87	29.84	30.91	32.05	3.4%
Other Gaseous Fuels	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.3%
Renewable Sources 4/	1.04	1.07	1.09	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.29	2.6%
Other	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	0.0%
Total	24.61	25.29	26.05	26.83	27.74	28.69	29.70	30.61	31.58	32.57	33.66	34.83	3.1%
Other End Use Generators	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	1.9%

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	6.96	7.27	7.62	7.98	8.41	8.85	9.31	9.71	10.14	10.57	11.05	11.55	5.4%
Generation for Own Use	17.77	18.13	18.54	18.97	19.46	19.96	20.51	21.03	21.58	22.14	22.76	23.43	2.3%
Total Electricity Generation	296.78	299.33	310.62	313.33	318.45	326.23	328.81	332.80	338.20	347.06	357.64	366.10	2.5%
End-Use Prices (2002 cents per kilowatthour)													
Residential	10.6	10.7	10.7	10.7	10.7	10.6	10.5	10.6	10.6	10.6	10.6	10.6	-0.9%
Commercial	9.9	9.9	9.9	9.9	9.9	9.7	9.7	9.7	9.7	9.7	9.6	9.6	-1.4%
Industrial	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1	6.0	6.0	6.0	-2.5%
Transportation	9.4	9.4	9.4	9.4	9.3	9.1	9.0	9.0	9.0	8.9	8.9	8.8	-1.4%
All Sectors Average	9.2	9.2	9.2	9.2	9.2	9.1	9.0	9.1	9.1	9.0	9.0	9.0	-1.4%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1	6.0	6.0	6.0	-2.0%
Transmission	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3%
Distribution	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) 9/													
Coal	0.70	0.70	0.83	0.83	0.83	0.83	0.83	0.83	0.87	0.97	1.03	1.10	6.2%
Natural Gas	0.74	0.73	0.68	0.69	0.71	0.75	0.71	0.70	0.69	0.65	0.66	0.65	-0.2%
Oil	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	-1.6%
Total	1.46	1.45	1.53	1.54	1.56	1.59	1.56	1.54	1.58	1.64	1.72	1.77	2.6%
Emissions (million tons) 10/													
Total Carbon	31.67	31.55	34.51	34.55	34.88	35.45	34.84	34.66	35.67	37.95	39.88	41.57	3.2%
Carbon Dioxide	116.13	115.68	126.53	126.69	127.89	129.98	127.75	127.09	130.81	139.16	146.24	152.42	3.2%
Sulfur Dioxide	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.5%
Nitrogen Oxide	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	10.9%

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council / California

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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 73. Electric Power Projections for EMM Region  
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	310.64	310.94	310.59	309.83	308.88	307.85	306.23	306.49	307.81	310.25	311.68	313.47	315.60
Other Fossil Steam 2/	134.94	133.65	131.21	130.89	128.81	127.16	124.58	123.37	111.41	106.13	104.78	103.72	103.28
Combined Cycle	65.49	110.49	146.83	153.77	154.51	154.51	154.51	154.83	156.06	159.99	164.60	167.83	175.38
Combustion Turbine/Diesel	101.97	128.83	135.20	135.68	139.64	139.30	138.79	139.72	133.42	136.47	139.53	142.26	147.97
Nuclear Power	98.20	98.75	99.16	99.46	99.78	100.07	100.22	100.37	100.44	100.57	100.68	101.04	101.40
Pumped Storage/Other 3/	19.86	20.20	20.27	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.05	0.05	0.05	0.05
Renewable Sources 4/	90.67	91.69	93.66	93.83	94.19	94.96	95.78	96.31	96.74	97.42	98.20	98.66	99.62
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.11	0.28	0.45	0.67	0.89	1.19
Total Capacity	821.77	894.54	936.90	943.79	946.15	944.19	940.47	941.57	926.55	931.66	940.51	948.26	964.83
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.08	0.60	0.60	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Other Fossil 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	35.80	42.74	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48
Combustion Turbine/Diesel	0.00	0.00	7.33	7.52	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
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	0.02	0.03	0.05	0.05	0.05	0.05	0.05
Renewable Sources 4/	0.00	0.00	1.86	2.07	2.36	2.99	3.70	4.03	4.17	4.33	4.40	4.44	4.50
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	45.07	52.94	54.52	55.67	56.40	56.75	56.91	57.07	57.13	57.17	57.24
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.43	1.18	3.21	5.65	7.08	8.87	11.01
Other Fossil 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	0.32	2.52	6.61	11.22	14.44	22.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.32	4.03	4.03	4.11	5.09	6.58	10.46	13.95	16.89	22.60
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	0.11	0.31	0.59	1.14	1.86	2.28	3.18
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.11	0.28	0.45	0.67	0.89	1.19
Total Unplanned Additions	0.00	0.00	0.00	0.32	4.04	4.04	4.67	7.01	13.20	24.31	34.77	43.39	59.97
Cumulative Total Additions	0.00	0.00	45.07	53.26	58.56	59.72	61.07	63.76	70.11	81.38	91.90	100.56	117.21
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.43	1.71	2.66	4.22	6.27	6.75	7.47	7.47	7.47	7.47	7.47
Other Fossil Steam 3/	0.00	0.00	0.50	0.82	2.92	4.57	7.15	8.36	20.32	25.60	26.95	28.01	28.45
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	1.13	1.13	1.13	1.13
Combustion Turbine/Diesel	0.00	0.00	0.31	0.33	0.64	0.98	1.56	1.62	9.41	10.23	10.66	10.87	10.87
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	0.11	0.12	0.12	0.12	0.12	0.12	0.14	0.15	0.15	0.15
Total	0.00	0.00	1.24	2.98	6.34	9.88	15.10	16.84	38.28	44.57	46.36	47.62	48.06

Table 73. Electric Power Projections for EMM Region  
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	4.08	4.17	4.17	4.17	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
Petroleum	0.96	0.95	0.95	0.95	1.16	1.31	1.31	1.39	1.49	1.60	1.70	1.76	1.82
Natural Gas	13.90	14.11	14.23	14.56	15.13	15.68	16.08	16.56	17.16	17.77	18.35	18.91	19.39
Other Gaseous Fuels	1.57	1.77	1.77	1.77	2.04	2.10	2.10	2.13	2.17	2.21	2.25	2.28	2.32
Renewable Sources 4/	4.01	4.16	4.23	4.51	4.79	4.98	5.11	5.23	5.40	5.61	5.83	6.06	6.30
Other	0.32	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	24.84	25.49	25.68	26.29	27.59	28.55	29.08	29.79	30.69	31.66	32.60	33.48	34.30
Other End Use Generators	1.05	1.06	1.08	1.10	1.12	1.16	1.21	1.27	1.33	1.41	1.42	1.42	1.43
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	1197.78	1259.20	1280.82	1300.95	1317.85	1337.27	1359.10	1385.25	1403.60	1426.66	1448.33	1472.59	1488.72
Commercial/Other	1193.11	1198.46	1212.03	1252.73	1294.99	1333.82	1370.36	1406.38	1441.77	1478.77	1515.49	1550.32	1585.79
Industrial	957.27	982.49	976.89	1002.29	1029.49	1051.70	1072.32	1088.27	1102.34	1119.33	1138.89	1158.00	1178.53
Transportation	21.49	21.86	22.64	23.29	23.90	24.40	24.86	25.33	25.81	26.32	26.83	27.37	27.93
Total Sales	3369.66	3462.00	3492.37	3579.26	3666.23	3747.20	3826.65	3905.24	3973.52	4051.08	4129.53	4208.29	4280.98
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	38.40	36.29	52.37	46.50	48.89	45.49	44.62	44.80	45.87	47.17	47.54	45.47	44.59
Gross International Exports	16.41	14.34	12.75	16.55	16.67	16.80	16.93	17.06	17.20	16.38	15.41	14.44	13.47
Gross Interregional Electricity Imports	321.20	344.60	357.68	342.86	333.79	334.73	348.05	353.08	348.94	332.16	325.31	313.82	304.37
Gross Interregional Electricity Exports	324.84	348.80	362.19	347.15	338.04	339.17	352.76	357.94	353.73	336.75	329.91	318.34	308.84
Purchases from Combined Heat and Power 8	25.35	27.12	28.25	30.52	32.07	35.47	38.12	40.98	44.54	48.31	51.92	55.10	58.11
Electric Power Sector Generation for Custom	3551.18	3625.91	3674.42	3772.70	3860.03	3943.76	4024.70	4102.30	4167.15	4242.11	4318.14	4396.89	4467.96
Total Net Energy for Load	3594.87	3670.79	3737.78	3828.87	3920.07	4003.47	4085.79	4166.16	4235.57	4316.62	4397.59	4478.51	4552.71
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	1882.83	1906.93	1972.66	1975.41	2032.61	2089.09	2143.64	2164.54	2205.91	2234.52	2255.06	2277.04	2298.17
Petroleum	119.16	83.11	96.90	51.59	62.09	61.44	64.53	71.58	68.52	63.39	70.21	83.81	91.15
Natural Gas	554.94	598.10	572.01	661.30	664.48	685.33	702.78	746.92	773.35	816.41	855.42	892.56	927.37
Nuclear	768.83	780.05	762.38	779.03	790.84	793.85	794.67	796.35	790.54	794.33	799.59	802.65	805.70
Pumped Storage/Other 3/	-8.24	-6.89	-9.39	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41
Renewable Sources 4/	262.55	308.87	342.77	378.32	383.19	387.46	392.67	396.60	399.98	404.52	408.69	411.66	416.41
Total Generation	3580.06	3670.18	3737.33	3836.23	3923.80	4007.75	4088.89	4166.58	4228.89	4303.75	4379.55	4458.31	4529.39
Sales to Customers	3551.18	3625.91	3674.42	3772.70	3860.03	3943.76	4024.70	4102.30	4167.15	4242.11	4318.14	4396.89	4467.96
Generation for Own Use	28.88	44.27	62.91	63.54	63.77	63.98	64.19	64.28	61.74	61.64	61.41	61.42	61.43
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.12	0.20	0.29	0.39	0.52
<b>Combined Heat and Power</b>													
Coal	21.34	21.07	20.84	20.84	20.88	20.88	20.88	20.88	20.88	20.88	20.88	20.89	20.89
Petroleum	5.54	5.00	5.37	5.37	8.35	9.08	9.62	10.26	11.13	12.01	12.89	13.38	13.87
Natural Gas	82.58	84.44	83.80	86.17	89.47	93.57	96.61	100.18	104.61	109.21	113.50	117.63	121.22
Other Gaseous Fuels	3.78	4.90	5.93	5.93	7.99	8.45	8.45	8.68	8.98	9.29	9.60	9.87	10.15
Renewable Sources 4/	28.68	30.00	30.66	32.33	33.95	35.06	35.82	36.55	37.50	38.73	40.00	41.36	42.79
Other	8.68	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45
Total	150.61	156.86	158.05	162.09	172.09	178.49	182.83	187.98	194.55	201.57	208.32	214.57	220.36
Other End Use Generators	3.27	4.20	4.23	4.27	4.33	4.41	4.52	4.63	4.77	4.93	4.95	4.97	4.98



Table 73. Electric Power Projections for EMM Region  
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales to Utilities	25.35	27.12	28.25	30.52	32.07	35.47	38.12	40.98	44.54	48.31	51.92	55.10	58.11
Generation for Own Use	128.53	133.93	134.03	135.84	144.34	147.43	149.22	151.63	154.78	158.19	161.35	164.43	167.24
Total Electricity Generation	3733.94	3831.23	3899.61	4002.59	4100.21	4190.65	4276.24	4359.24	4428.34	4510.45	4593.11	4678.24	4755.25
End-Use Prices (2002 cents per kilowatthour)													
Residential	8.7	8.4	8.5	8.3	8.2	8.1	8.0	8.0	8.0	7.9	7.9	8.0	8.0
Commercial	8.0	7.8	7.6	7.4	7.2	7.0	6.9	6.9	7.0	7.0	7.0	7.1	7.0
Industrial	5.2	5.0	4.8	4.7	4.6	4.6	4.5	4.6	4.6	4.6	4.5	4.6	4.6
Transportation	7.4	7.2	7.3	7.1	6.9	6.7	6.6	6.6	6.7	6.7	6.7	6.8	6.8
All Sectors Average	7.4	7.2	7.1	7.0	6.8	6.7	6.6	6.6	6.7	6.6	6.6	6.7	6.7
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.8	4.6	4.6	4.4	4.3	4.2	4.2	4.1	4.2	4.1	4.1	4.2	4.2
Transmission	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
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Fuel Consumption (quadrillion Btu) 9/													
Coal	19.68	19.96	20.37	20.38	20.96	21.54	22.10	22.34	22.76	23.05	23.27	23.49	23.70
Natural Gas	5.45	5.45	5.06	5.77	5.80	5.98	6.13	6.48	6.47	6.78	7.05	7.32	7.51
Oil	1.25	0.85	1.01	0.55	0.66	0.65	0.68	0.75	0.71	0.66	0.72	0.84	0.90
Total	26.37	26.25	26.44	26.70	27.42	28.17	28.91	29.56	29.95	30.50	31.04	31.65	32.11
Emissions (million tons) 10/													
Total Carbon	669.20	675.92	677.61	678.44	697.84	716.71	735.52	749.17	760.57	772.59	784.24	797.57	808.04
Carbon Dioxide	2453.74	2478.38	2484.59	2487.60	2558.76	2627.93	2696.91	2746.96	2788.74	2832.81	2875.54	2924.43	2962.82
Sulfur Dioxide	10.63	10.54	10.62	10.80	10.18	9.90	10.13	10.30	9.93	9.90	9.86	9.37	9.15
Nitrogen Oxide	4.75	4.39	3.70	3.23	3.28	3.36	3.43	3.46	3.48	3.50	3.52	3.54	3.56

Table 73. Electric Power Projections for EMM Region  
United States

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Electricity Generating Capacity 1/</b> (gigawatts)													
Coal Steam	318.01	321.53	325.75	331.09	336.36	344.21	353.51	364.03	376.94	392.32	400.48	412.30	1.2%
Other Fossil Steam 2/	102.98	102.69	102.69	102.10	101.65	101.40	101.10	99.97	99.22	98.75	98.24	96.48	-1.4%
Combined Cycle	184.17	191.72	195.71	203.29	207.46	212.74	217.35	223.28	226.69	230.17	232.06	235.24	3.3%
Combustion Turbine/Diesel	152.63	158.06	160.76	164.61	166.23	167.80	169.25	172.20	176.19	178.01	179.54	180.41	1.5%
Nuclear Power	101.76	102.12	102.36	102.60	102.60	102.60	102.60	102.60	102.60	102.60	102.60	102.60	0.2%
Pumped Storage/Other 3/	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	20.33	0.0%
Fuel Cells	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Renewable Sources 4/	100.28	101.22	101.67	102.33	102.94	103.91	105.93	107.35	107.65	107.97	109.02	110.13	0.8%
Distributed Generation 5/	1.74	2.44	3.30	4.38	5.25	6.38	7.56	8.79	9.82	10.73	11.55	12.36	N/A
Total Capacity	981.95	1000.15	1012.61	1030.78	1042.87	1059.42	1077.68	1098.60	1119.49	1140.95	1153.88	1169.90	1.2%
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	N/A
Other Fossil 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	N/A
Combined Cycle	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48	43.48	N/A
Combustion Turbine/Diesel	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	N/A
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	N/A
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	N/A
Fuel Cells	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Renewable Sources 4/	4.56	4.63	4.65	4.67	4.69	4.71	4.73	4.76	4.78	4.80	4.82	4.84	N/A
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	N/A
Total Planned Additions	57.30	57.36	57.38	57.41	57.43	57.45	57.47	57.49	57.51	57.54	57.56	57.58	N/A
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	13.94	17.45	21.68	27.01	33.58	41.43	50.72	62.09	75.00	90.38	98.54	110.62	N/A
Other Fossil 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	N/A
Combined Cycle	30.79	38.33	42.33	49.91	54.08	59.36	63.96	69.90	73.30	76.79	78.67	81.85	N/A
Combustion Turbine/Diesel	27.26	32.81	35.50	39.35	40.98	43.22	45.99	50.00	54.00	55.83	57.36	59.05	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	3.77	4.65	5.07	5.72	6.31	7.25	9.25	10.65	10.93	11.23	12.26	13.34	N/A
Distributed Generation 5/	1.74	2.44	3.30	4.38	5.25	6.38	7.56	8.79	9.82	10.73	11.55	12.36	N/A
Total Unplanned Additions	77.49	95.68	107.88	126.37	140.19	157.65	177.49	201.43	223.06	244.96	258.39	277.23	N/A
Cumulative Total Additions	134.79	153.04	165.26	183.77	197.62	215.10	234.96	258.92	280.57	302.50	315.95	334.81	N/A
<b>Cumulative Retirements 7/</b>													
Coal Steam	7.99	7.99	7.99	7.99	9.28	9.28	9.28	10.12	10.12	10.12	10.12	10.39	N/A
Other Fossil Steam 3/	28.75	29.04	29.04	29.63	30.09	30.33	30.63	31.76	32.51	32.98	33.49	35.25	N/A
Combined Cycle	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	N/A
Combustion Turbine/Diesel	10.87	10.99	10.99	10.99	10.99	11.67	12.99	14.05	14.06	14.06	14.07	14.88	N/A
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	N/A
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	N/A
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	N/A
Renewable Sources 4/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	N/A
Total	48.89	49.29	49.29	49.88	51.63	52.56	54.17	57.20	57.97	58.44	58.96	61.79	N/A

Table 73. Electric Power Projections for EMM Region  
United States

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Combined Heat and Power 8/ Capacity</b>													
Coal	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	0.0%
Petroleum	1.88	1.90	1.93	1.95	2.04	2.14	2.23	2.24	2.24	2.25	2.26	2.26	3.8%
Natural Gas	19.89	20.39	20.95	21.53	22.21	22.92	23.68	24.37	25.10	25.85	26.68	27.56	3.0%
Other Gaseous Fuels	2.35	2.39	2.42	2.46	2.49	2.53	2.56	2.59	2.61	2.64	2.66	2.68	1.8%
Renewable Sources 4/	6.52	6.69	6.86	7.04	7.22	7.36	7.51	7.65	7.80	7.96	8.11	8.29	3.0%
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	N/A
Total	35.11	35.84	36.63	37.45	38.44	39.42	40.45	41.31	42.22	43.17	44.18	45.27	2.5%
Other End Use Generators	1.44	1.45	1.45	1.46	1.50	1.54	1.61	1.70	1.80	1.91	2.02	2.15	3.1%
<b>Electricity Demand (billion kilowatthours)</b>													
Residential	1509.10	1529.67	1552.99	1570.00	1590.97	1614.02	1640.06	1655.58	1676.85	1699.84	1727.13	1745.20	1.4%
Commercial/Other	1619.43	1651.58	1682.16	1716.41	1752.31	1789.99	1826.02	1860.76	1893.44	1927.61	1962.97	2001.37	2.3%
Industrial	1196.15	1214.49	1233.84	1255.34	1274.87	1290.63	1308.64	1325.70	1347.15	1370.53	1393.57	1420.28	1.6%
Transportation	28.46	29.01	29.56	30.13	30.76	31.39	32.02	32.67	33.32	33.98	34.67	35.37	2.1%
Total Sales	4353.14	4424.75	4498.55	4571.88	4648.89	4726.03	4806.75	4874.71	4950.76	5031.96	5118.34	5202.22	1.8%
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	42.42	43.50	40.24	36.13	32.41	28.09	28.94	24.59	20.95	18.33	16.33	15.16	-3.7%
Gross International Exports	12.50	11.53	10.57	9.60	8.63	8.14	7.66	7.66	7.66	7.66	7.66	7.66	-2.7%
Gross Interregional Electricity Imports	294.93	287.40	273.55	270.96	261.57	257.75	255.57	248.36	234.95	230.48	220.42	221.26	-1.9%
Gross Interregional Electricity Exports	299.36	291.83	277.84	275.34	265.91	262.09	259.93	252.58	238.90	234.33	224.07	224.93	-1.9%
Purchases from Combined Heat and Power 8	61.03	63.48	66.11	68.85	72.55	76.19	79.99	82.67	85.51	88.44	91.60	94.94	5.6%
Electric Power Sector Generation for Custom	4536.77	4604.76	4681.83	4759.93	4839.83	4921.10	5000.49	5073.59	5154.49	5239.56	5329.56	5415.47	1.8%
Total Net Energy for Load	4623.29	4695.78	4773.32	4850.92	4931.83	5012.90	5097.39	5168.98	5249.35	5334.82	5426.18	5514.24	1.8%
<b>Generation by Fuel Type (billion kilowatthours)</b>													
Coal	2321.17	2351.97	2386.72	2428.08	2468.78	2525.95	2592.78	2667.42	2757.84	2862.86	2923.78	3007.91	2.0%
Petroleum	99.13	107.75	105.46	103.54	95.19	89.62	84.52	89.96	84.73	77.26	80.52	79.92	-0.2%
Natural Gas	958.65	979.40	1019.20	1052.61	1097.47	1122.15	1131.35	1118.41	1112.10	1098.16	1119.56	1117.49	2.8%
Nuclear	808.90	811.97	814.06	816.22	816.38	816.49	816.49	816.49	816.49	816.49	816.49	816.49	0.2%
Pumped Storage/Other 3/	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41	1.4%
Renewable Sources 4/	419.76	424.54	427.27	430.35	432.89	437.76	446.22	452.20	454.23	455.69	460.10	464.40	1.8%
Total Generation	4598.21	4666.22	4743.29	4821.40	4901.29	4982.57	5061.95	5135.06	5215.97	5301.04	5391.04	5476.79	1.8%
Sales to Customers	4536.77	4604.76	4681.83	4759.93	4839.83	4921.10	5000.49	5073.59	5154.49	5239.56	5329.56	5415.47	1.8%
Generation for Own Use	61.45	61.46	61.46	61.47	61.46	61.46	61.47	61.47	61.48	61.48	61.48	61.33	1.4%
Distributed Generation 5/	0.76	1.07	1.44	1.92	2.30	2.79	3.31	3.85	4.30	4.70	5.06	5.41	N/A
<b>Combined Heat and Power</b>													
Coal	20.89	20.89	20.89	20.89	20.89	20.89	20.90	20.90	20.90	20.90	20.90	20.90	0.0%
Petroleum	14.36	14.55	14.74	14.93	15.72	16.51	17.30	17.34	17.39	17.44	17.49	17.54	5.6%
Natural Gas	124.92	128.62	132.77	137.05	142.08	147.29	152.88	157.93	163.28	168.77	174.83	181.27	3.4%
Other Gaseous Fuels	10.42	10.70	10.97	11.24	11.52	11.79	12.07	12.26	12.45	12.65	12.84	13.04	4.3%
Renewable Sources 4/	44.05	45.06	46.03	47.11	48.15	48.97	49.82	50.64	51.51	52.45	53.35	54.36	2.6%
Other	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45	0.0%
Total	226.08	231.26	236.86	242.67	249.81	256.90	264.40	270.53	276.98	283.65	290.86	298.55	2.8%
Other End Use Generators	5.00	5.02	5.03	5.05	5.13	5.21	5.37	5.56	5.78	6.01	6.25	6.53	1.9%

Table 73. Electric Power Projections for EMM Region  
United States

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sales to Utilities	61.03	63.48	66.11	68.85	72.55	76.19	79.99	82.67	85.51	88.44	91.60	94.94	5.6%
Generation for Own Use	170.05	172.80	175.78	178.88	182.39	185.92	189.78	193.42	197.25	201.22	205.52	210.14	2.0%
Total Electricity Generation	4830.06	4903.57	4986.63	5071.04	5158.53	5247.47	5335.03	5415.00	5503.03	5595.40	5693.22	5787.29	1.8%
End-Use Prices (2002 cents per kilowatthour)													
Residential	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	-0.2%
Commercial	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.3	7.2	7.3	7.3	-0.3%
Industrial	4.6	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.8	4.8	-0.2%
Transportation	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.8	-0.2%
All Sectors Average	6.8	6.8	6.9	6.8	6.9	6.8	6.9	6.9	6.9	6.8	6.9	6.9	-0.2%
Prices by Service Category (2002 cents per kilowatthour)													
Generation	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	-0.1%
Transmission	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9%
Distribution	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	-0.7%
Fuel Consumption (quadrillion Btu) 9/													
Coal	23.91	24.20	24.51	24.87	25.17	25.66	26.22	26.81	27.57	28.46	28.97	29.67	1.7%
Natural Gas	7.68	7.78	8.07	8.27	8.59	8.74	8.77	8.62	8.55	8.42	8.59	8.55	2.0%
Oil	0.97	1.04	1.03	1.01	0.94	0.89	0.85	0.90	0.85	0.79	0.82	0.81	-0.2%
Total	32.56	33.01	33.61	34.15	34.70	35.29	35.85	36.32	36.97	37.67	38.37	39.03	1.7%
Emissions (million tons) 10/													
Total Carbon	818.32	829.40	842.91	855.86	867.74	882.78	898.33	913.42	932.85	954.76	972.42	991.49	1.7%
Carbon Dioxide	3000.52	3041.13	3090.68	3138.14	3181.70	3236.86	3293.88	3349.20	3420.44	3500.78	3565.54	3635.48	1.7%
Sulfur Dioxide	9.09	8.95	8.95	8.95	8.94	8.95	8.94	8.94	8.94	8.94	8.95	8.95	-0.7%
Nitrogen Oxide	3.57	3.60	3.63	3.65	3.64	3.65	3.67	3.66	3.68	3.71	3.73	3.75	-0.7%

Table 73. 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 solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2002.

7/ Generation to meet system load by source.

8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2002 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002).

Other 2002 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 74. Electric Generation by Electricity Market Module Region and Source  
(Billion Kilowatthours)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>East Central Area Reliability Coordination Agreement</b>													
Coal	483.11	491.98	517.24	517.65	531.82	540.02	555.29	562.39	574.58	578.66	582.43	585.62	587.51
Petroleum	1.91	2.18	0.89	0.87	0.66	0.66	0.61	0.67	0.56	0.54	0.62	0.66	0.69
Natural Gas	15.83	21.55	40.92	54.97	52.76	53.50	51.58	59.36	53.72	56.52	64.25	71.58	78.53
Nuclear	55.35	55.55	55.23	55.91	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13
Pumped Storage/Other 1/	-1.63	-1.48	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38
Renewables 2/	5.92	5.41	7.45	6.94	7.48	7.61	7.93	7.93	8.18	8.88	9.29	9.48	9.63
Total	560.49	575.19	619.36	633.96	646.48	655.54	669.17	684.10	690.79	698.36	710.35	721.09	730.11
<b>Electric Reliability Council of Texas</b>													
Coal	102.26	107.49	104.66	104.86	107.97	110.60	112.77	112.88	115.43	115.43	115.40	115.38	115.35
Petroleum	2.53	1.48	1.19	0.63	0.80	0.84	0.81	0.91	0.42	0.05	0.39	0.63	0.68
Natural Gas	125.73	126.10	146.37	146.95	149.76	153.85	157.74	163.33	166.32	176.78	177.83	183.07	187.68
Nuclear	38.16	35.62	30.55	36.64	36.95	37.10	37.25	37.40	37.54	33.93	38.46	38.61	38.76
Pumped Storage/Other 1/	0.01	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	2.11	2.67	5.54	6.13	6.28	6.30	6.31	6.00	6.34	6.53	6.68	6.71	6.75
Total	270.81	273.77	288.32	295.20	301.76	308.69	314.88	320.54	326.12	332.83	338.89	344.56	349.41
<b>Mid-Atlantic Area Council</b>													
Coal	114.38	117.14	124.32	126.69	131.21	137.06	142.45	144.24	145.66	146.56	147.29	147.43	147.76
Petroleum	9.09	6.13	6.06	3.79	3.77	3.82	3.93	3.99	4.17	1.65	1.83	2.55	2.98
Natural Gas	19.26	25.33	20.15	25.38	25.28	26.24	28.22	32.28	36.92	40.63	43.10	47.39	50.12
Nuclear	104.68	105.49	104.98	107.67	108.19	109.11	109.16	109.21	109.37	109.37	109.37	109.37	109.37
Pumped Storage/Other 1/	-0.32	-0.30	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
Renewables 2/	6.57	7.46	10.33	11.37	11.93	11.95	12.16	12.26	12.35	12.30	12.40	12.42	12.45
Total	253.66	261.26	265.26	274.30	279.77	287.58	295.32	301.38	307.90	309.99	313.50	318.69	322.25
<b>Mid-America Interconnected Network</b>													
Coal	150.20	156.17	163.28	165.53	168.56	175.12	182.53	187.92	193.35	196.42	199.93	203.47	205.42
Petroleum	2.19	0.86	0.61	0.48	0.43	0.43	0.45	0.47	0.41	0.42	0.43	0.49	0.54
Natural Gas	5.90	13.38	27.79	31.31	31.09	31.42	32.00	33.33	33.54	34.02	35.65	35.89	37.01
Nuclear	112.25	111.70	111.52	112.70	113.18	113.74	113.81	114.82	114.89	114.89	115.23	115.23	115.23
Pumped Storage/Other 1/	-0.27	-0.14	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
Renewables 2/	3.99	3.94	4.88	5.33	5.58	5.61	5.64	5.65	5.70	5.73	5.75	5.78	5.78
Total	274.27	285.90	307.89	315.17	318.65	326.13	334.24	342.03	347.72	351.30	356.81	360.69	363.80
<b>Mid-Continent Area Power Pool</b>													
Coal	122.49	128.67	120.47	122.23	126.90	131.37	135.23	135.78	136.35	136.61	136.70	136.67	136.74
Petroleum	0.82	0.75	0.27	0.28	0.31	0.31	0.32	0.34	0.25	0.25	0.27	0.38	0.60
Natural Gas	1.99	2.12	1.09	1.36	1.40	1.44	1.50	1.83	1.80	2.25	2.58	3.42	3.47
Nuclear	24.37	28.38	26.93	27.28	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39
Pumped Storage/Other 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
Renewables 2/	10.87	12.97	17.38	19.51	19.63	20.25	21.49	21.94	22.07	22.48	22.59	22.59	22.59
Total	160.53	172.89	166.12	170.66	175.63	180.77	185.95	187.29	187.88	189.01	189.57	190.49	190.85
<b>Northeast Power Coordinating Council/ New York</b>													
Coal	22.59	24.76	23.56	23.22	23.78	24.96	26.16	26.24	26.29	26.18	26.23	26.05	26.23
Petroleum	16.29	11.60	9.78	8.15	11.06	10.29	10.35	10.74	10.37	10.36	10.84	11.21	11.34
Natural Gas	37.58	37.01	36.37	40.96	38.39	39.33	39.69	39.67	40.36	46.07	48.53	48.86	52.09
Nuclear	40.39	39.62	34.95	39.77	40.00	40.07	40.14	40.21	40.28	40.35	40.42	40.43	40.43
Pumped Storage/Other 1/	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92	-0.92
Renewables 2/	25.20	27.38	27.79	28.61	29.40	30.12	30.29	30.23	30.24	30.31	30.24	30.35	30.19
Total	141.12	139.45	131.53	139.80	141.70	143.86	145.71	146.17	146.61	152.35	155.34	155.98	159.36

Table 74. Electric Generation by Electricity Market Module Region and Source  
(Billion Kilowatt-hours)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Northeast Power Coordinating Council/ New England													
Coal	18.64	18.26	20.42	20.25	20.77	21.22	21.66	21.63	21.63	21.63	21.63	21.63	21.63
Petroleum	14.96	9.34	36.61	8.44	14.41	13.14	14.72	17.02	18.15	18.41	19.27	21.12	25.03
Natural Gas	32.30	41.39	22.22	47.74	42.17	46.25	46.34	47.69	48.59	48.74	50.14	51.74	49.51
Nuclear	33.44	33.94	33.58	33.99	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16
Pumped Storage/Other 1/	-0.71	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
Renewables 2/	11.74	11.64	11.85	12.63	12.79	12.88	13.05	13.33	13.65	13.91	14.26	14.26	14.34
Total	110.37	113.72	123.84	122.20	123.46	126.81	129.07	132.98	135.34	135.99	138.61	142.06	143.82
Southeastern Electric Reliability Council/ Florida													
Coal	60.99	50.49	75.80	70.37	72.77	75.09	80.20	85.76	85.76	85.85	89.32	89.34	89.62
Petroleum	40.30	32.32	24.61	14.59	14.20	15.17	16.02	19.33	17.55	14.42	18.04	26.83	28.22
Natural Gas	42.27	59.31	29.76	49.56	51.86	53.65	53.07	51.87	59.77	69.35	71.63	71.59	77.91
Nuclear	31.58	33.70	33.16	33.59	33.72	33.72	33.72	33.89	33.89	33.89	33.89	33.89	33.89
Pumped Storage/Other 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
Renewables 2/	3.32	3.76	4.16	4.03	4.20	4.23	4.44	4.49	4.48	4.62	4.81	4.91	4.95
Total	178.45	179.59	167.50	172.14	176.75	181.86	187.44	195.34	201.44	208.14	217.68	226.55	234.59
Southeastern Electric Reliability Council/ excluding Florida													
Coal	450.64	454.59	447.52	451.77	466.24	482.58	498.44	501.81	507.64	509.82	511.69	513.62	514.19
Petroleum	16.21	6.76	6.22	4.45	5.24	5.35	5.67	6.24	5.84	6.38	7.37	8.42	9.21
Natural Gas	75.17	102.11	73.15	88.37	82.61	82.70	84.20	93.82	101.34	119.42	129.73	140.48	149.09
Nuclear	248.06	252.76	248.78	247.83	256.95	258.19	258.31	258.46	258.86	259.32	259.51	262.35	265.18
Pumped Storage/Other 1/	-3.95	-3.44	-3.02	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04
Renewables 2/	27.45	29.97	33.48	37.48	38.43	38.61	38.70	39.09	39.01	39.17	39.51	39.43	40.96
Total	813.58	842.75	806.13	826.86	846.43	864.39	882.28	896.38	909.66	931.06	944.76	961.26	975.60
Southwest Power Pool													
Coal	125.47	133.15	143.26	144.11	148.54	153.12	146.91	143.87	144.65	144.69	144.71	144.75	144.78
Petroleum	1.10	0.56	0.43	0.47	0.50	0.50	0.57	0.65	0.67	0.70	0.75	0.88	0.90
Natural Gas	38.48	41.70	28.66	29.87	32.42	32.14	37.08	41.54	42.24	45.81	48.41	51.01	52.73
Nuclear	10.35	9.04	9.17	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.39	9.39	9.39
Pumped Storage/Other 1/	-0.13	-0.18	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
Renewables 2/	5.13	6.61	5.77	6.44	6.50	6.44	6.44	6.59	6.45	6.45	6.44	6.46	6.48
Total	180.41	190.87	187.01	189.92	196.99	201.23	200.04	201.68	203.05	206.68	209.42	212.21	213.99
Western Electricity Coordinating Council/ Northwest Power Pool Area													
Coal	74.75	70.81	82.50	81.36	83.47	85.32	86.93	86.93	95.28	102.55	105.03	111.60	111.60
Petroleum	1.84	0.56	0.40	0.31	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Natural Gas	21.99	12.77	17.38	19.36	24.49	26.17	27.32	28.65	28.20	24.99	26.14	25.82	32.12
Nuclear	8.25	9.05	8.90	9.02	9.06	9.06	9.06	9.06	2.34	9.14	9.14	9.14	9.14
Pumped Storage/Other 1/	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	99.16	131.98	139.00	157.29	157.30	157.30	157.60	158.87	159.87	161.38	162.68	163.86	165.02
Total	205.99	225.45	248.19	267.34	274.63	278.18	281.25	283.84	286.02	298.39	303.33	310.78	318.28

Table 74. Electric Generation by Electricity Market Module Region and Source  
(Billion Kilowatthours)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Western Electricity Coordinating Council/ Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal	127.69	124.14	115.09	113.43	115.93	117.27	119.10	119.10	119.10	119.10	119.10	119.10	129.20
Petroleum	0.58	0.13	1.02	0.95	0.95	0.97	0.97	0.98	0.26	0.26	0.26	0.26	0.30
Natural Gas	37.18	39.86	64.07	46.31	48.31	52.55	56.66	63.49	68.28	64.95	69.83	73.54	70.47
Nuclear	20.85	22.40	22.29	22.50	22.73	22.73	22.95	22.95	22.95	22.95	22.95	22.95	22.95
Pumped Storage/Other 1/	0.03	-0.10	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
Renewables 2/	16.95	15.57	18.78	21.07	21.66	22.07	22.30	22.50	22.81	23.04	23.29	23.50	24.19
Total	203.28	202.02	221.02	204.04	209.37	215.38	221.76	228.79	233.18	230.08	235.20	239.12	246.89
Western Electricity Coordinating Council/ California													
Coal	27.62	27.34	34.33	33.72	34.42	35.13	35.75	35.75	39.95	50.80	55.35	62.13	67.87
Petroleum	2.46	1.96	1.59	0.84	1.87	1.90	1.91	1.92	1.42	1.33	1.35	1.36	1.40
Natural Gas	98.24	72.22	61.14	76.15	80.86	82.94	84.17	86.80	88.94	83.50	84.14	84.63	83.01
Nuclear	41.09	42.80	42.33	42.82	43.08	43.14	43.29	43.36	43.42	43.49	43.56	43.62	43.69
Pumped Storage/Other 1/	-0.34	-0.17	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95
Renewables 2/	42.25	48.03	54.85	59.98	60.45	62.49	64.68	66.08	67.17	67.97	69.01	70.11	71.23
Total	195.19	206.11	221.07	241.95	240.14	242.21	243.30	250.95	246.80	247.98	255.42	263.53	269.62



Table 74. Electric Generation by Electricity Market Module Region and Source  
(Billion Kilowatthours)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>East Central Area Reliability Coordination Agreement</b>													
Coal	588.71	590.84	592.89	594.05	594.09	594.30	594.50	594.40	593.98	594.33	595.17	595.81	0.8%
Petroleum	0.81	0.93	0.89	0.91	0.92	0.90	1.01	1.10	1.17	1.14	1.18	1.18	-2.6%
Natural Gas	86.43	95.12	103.09	113.50	125.19	136.71	146.21	151.06	154.78	163.98	173.19	184.50	9.8%
Nuclear	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	56.13	0.0%
Pumped Storage/Other 1/	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38	2.1%
Renewables 2/	9.67	9.89	10.25	10.43	10.53	10.68	10.73	10.39	10.26	10.28	10.27	10.17	2.8%
Total	739.38	750.54	760.88	772.65	784.49	796.36	806.20	810.71	813.97	823.50	833.59	845.44	1.7%
<b>Electric Reliability Council of Texas</b>													
Coal	115.35	115.39	115.31	115.34	115.34	115.34	115.39	115.40	115.33	123.22	127.30	134.75	1.0%
Petroleum	1.07	2.44	2.15	0.89	0.67	0.65	0.73	1.00	0.81	0.65	0.70	0.71	-3.2%
Natural Gas	191.01	191.71	195.84	201.22	204.02	207.12	209.15	211.71	216.16	213.25	214.53	211.27	2.3%
Nuclear	38.91	40.95	41.11	41.27	41.43	41.54	41.54	41.54	41.54	41.54	41.54	41.54	0.7%
Pumped Storage/Other 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	N/A
Renewables 2/	6.76	6.63	6.75	6.58	6.59	6.70	6.82	7.02	7.17	7.21	7.21	7.30	4.5%
Total	353.33	357.38	361.45	365.61	368.38	371.70	374.00	377.06	381.43	386.29	391.73	396.04	1.6%
<b>Mid-Atlantic Area Council</b>													
Coal	148.02	148.26	148.59	149.00	154.01	156.31	160.46	165.28	167.43	169.48	173.64	178.64	1.9%
Petroleum	3.61	4.47	4.15	4.09	4.19	3.62	4.00	4.11	3.88	3.38	3.57	3.22	-2.8%
Natural Gas	50.10	53.77	57.65	60.17	59.88	61.77	62.96	63.15	63.63	65.17	66.13	65.75	4.2%
Nuclear	109.37	109.37	109.37	111.38	111.38	111.38	111.38	111.38	111.38	111.38	111.38	111.38	0.2%
Pumped Storage/Other 1/	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	3.1%
Renewables 2/	12.47	12.48	12.47	12.45	12.42	12.44	12.59	12.89	13.06	13.13	13.16	13.07	2.5%
Total	323.22	328.08	332.05	336.97	341.82	345.52	351.47	356.94	359.59	362.82	368.23	372.48	1.6%
<b>Mid-America Interconnected Network</b>													
Coal	207.67	209.42	210.23	210.78	208.16	207.78	207.83	204.06	203.30	202.74	203.02	205.28	1.2%
Petroleum	0.56	0.58	0.64	0.78	0.73	0.63	0.74	1.25	1.16	1.12	1.44	1.41	2.2%
Natural Gas	37.24	37.57	39.00	41.13	43.34	44.31	45.32	46.81	46.39	47.86	50.29	53.21	6.2%
Nuclear	115.23	115.23	117.16	117.16	117.16	117.16	117.16	117.16	117.16	117.16	117.16	117.16	0.2%
Pumped Storage/Other 1/	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	1.1%
Renewables 2/	5.78	5.79	5.79	5.79	6.02	6.08	6.12	6.15	6.19	6.23	6.23	6.29	2.1%
Total	366.32	368.44	372.71	375.59	375.41	376.02	377.27	375.60	374.43	375.40	378.48	383.75	1.3%
<b>Mid-Continent Area Power Pool</b>													
Coal	136.85	136.88	137.10	139.12	143.82	152.08	158.61	165.08	168.88	173.54	175.54	175.53	1.4%
Petroleum	0.80	1.03	1.13	1.13	0.86	0.63	0.65	0.96	1.07	0.86	1.12	1.14	1.8%
Natural Gas	3.85	4.43	4.91	5.25	5.56	5.61	6.52	5.85	5.41	4.95	5.63	6.50	5.0%
Nuclear	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	27.39	-0.2%
Pumped Storage/Other 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	N/A
Renewables 2/	22.71	22.86	23.02	23.02	23.02	23.02	23.07	23.06	23.06	23.06	23.06	23.04	2.5%
Total	191.66	192.68	193.64	196.02	200.76	208.85	216.41	222.55	226.04	230.05	233.00	233.85	1.3%
<b>Northeast Power Coordinating Council/ New York</b>													
Coal	26.22	26.28	26.31	26.30	26.30	26.31	26.31	26.34	30.66	34.17	40.20	45.23	2.7%
Petroleum	11.79	12.74	11.69	11.92	11.95	11.53	12.03	11.61	11.31	11.27	10.84	10.75	-0.3%
Natural Gas	53.97	56.04	59.61	60.77	62.27	64.29	65.02	68.12	67.09	66.44	65.86	65.10	2.5%
Nuclear	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	40.43	0.1%
Pumped Storage/Other 1/	-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%
Renewables 2/	30.19	30.19	30.20	30.20	30.19	30.19	30.19	30.31	30.35	30.37	30.36	30.35	0.4%
Total	161.69	164.76	167.31	168.70	170.21	171.83	173.06	175.89	178.90	181.75	186.75	190.94	1.4%

Table 74. Electric Generation by Electricity Market Module Region and Source  
(Billion Kilowatthours)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Northeast Power Coordinating Council/ New England													
Coal	21.63	21.63	21.63	21.63	21.61	21.63	21.61	21.61	21.61	21.61	21.63	25.95	1.5%
Petroleum	29.07	27.91	29.05	30.24	26.99	24.09	20.42	21.04	22.07	19.52	19.55	17.78	2.8%
Natural Gas	47.41	48.21	49.57	50.71	55.70	60.44	63.12	65.12	65.44	70.10	70.76	71.13	2.4%
Nuclear	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	34.16	0.0%
Pumped Storage/Other 1/	-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%
Renewables 2/	14.34	14.49	14.65	14.98	15.54	16.26	16.26	16.72	17.26	18.07	20.24	20.25	2.4%
Total	145.76	145.55	148.22	150.88	153.17	155.75	154.75	157.83	159.72	162.65	165.53	168.46	1.7%
Southeastern Electric Reliability Council/ Florida													
Coal	89.60	89.58	90.75	90.82	94.70	97.06	110.81	127.14	143.14	156.35	163.16	170.38	5.4%
Petroleum	28.89	32.77	31.09	30.10	26.08	25.41	22.76	24.46	19.95	16.55	18.53	20.33	-2.0%
Natural Gas	83.43	87.91	95.75	102.44	108.35	112.01	110.40	101.99	103.03	100.29	98.39	95.01	2.1%
Nuclear	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	33.89	0.0%
Pumped Storage/Other 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	N/A
Renewables 2/	4.96	4.99	4.98	5.12	5.61	6.04	6.26	6.34	6.31	6.32	6.39	6.51	2.4%
Total	240.79	249.16	256.50	262.43	268.72	274.52	284.27	293.99	306.51	313.60	320.59	326.35	2.6%
Southeastern Electric Reliability Council/ excluding Florida													
Coal	511.56	512.00	512.35	515.10	539.31	569.87	594.30	626.66	662.24	695.27	711.12	731.93	2.1%
Petroleum	9.46	10.84	11.25	10.43	9.56	9.22	8.96	9.49	8.97	8.45	8.79	8.78	1.1%
Natural Gas	165.40	173.93	191.90	205.71	206.65	198.61	194.75	183.00	176.04	168.25	173.36	171.62	2.3%
Nuclear	268.16	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	269.12	0.3%
Pumped Storage/Other 1/	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04	-0.5%
Renewables 2/	41.73	42.51	42.53	42.93	42.96	42.98	42.99	42.87	42.81	42.67	42.52	42.27	1.5%
Total	993.26	1005.36	1024.11	1040.24	1064.56	1086.80	1107.15	1128.20	1156.29	1180.87	1202.02	1220.83	1.6%
Southwest Power Pool													
Coal	144.79	144.79	144.62	144.41	149.23	149.23	149.15	148.64	154.00	159.31	162.81	168.62	1.0%
Petroleum	1.14	1.61	1.55	1.25	1.00	0.92	0.97	1.91	0.95	0.87	0.92	1.03	2.7%
Natural Gas	56.60	58.55	63.05	67.64	68.00	69.65	71.36	71.46	69.97	67.27	68.54	66.57	2.1%
Nuclear	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	0.2%
Pumped Storage/Other 1/	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	2.0%
Renewables 2/	6.50	6.64	6.81	6.86	6.87	6.88	6.86	6.90	7.11	7.09	7.09	6.88	0.2%
Total	218.14	220.70	225.14	229.27	234.22	235.79	237.45	238.02	241.15	243.65	248.48	252.21	1.2%
Western Electricity Coordinating Council/ Northwest Power Pool Area													
Coal	117.48	125.98	140.30	156.69	157.00	165.49	175.28	186.09	197.43	212.88	217.21	228.42	5.2%
Petroleum	0.90	0.95	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	-2.3%
Natural Gas	32.67	31.51	25.99	20.97	27.62	23.70	27.17	27.44	25.73	21.03	21.79	18.22	1.6%
Nuclear	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	0.0%
Pumped Storage/Other 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	N/A
Renewables 2/	165.70	166.56	167.01	168.44	168.90	169.80	170.38	170.83	171.27	171.33	172.11	174.79	1.2%
Total	325.97	334.33	342.98	355.89	363.34	368.91	382.85	394.49	404.58	415.43	421.34	431.69	2.9%

Table 74. Electric Generation by Electricity Market Module Region and Source  
(Billion Kilowatt-hours)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Western Electricity Coordinating Council/ Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal	139.05	156.69	156.67	174.90	175.32	180.65	188.63	197.01	205.47	213.37	218.81	225.24	2.6%
Petroleum	0.34	0.36	0.36	0.34	0.31	0.26	0.29	0.33	0.33	0.32	0.32	0.17	1.0%
Natural Gas	65.78	56.49	55.02	43.85	48.36	50.26	47.00	42.37	39.07	35.00	35.58	34.58	-0.6%
Nuclear	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	0.1%
Pumped Storage/Other 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	3.5%
Renewables 2/	24.45	24.72	24.79	24.80	24.81	25.21	25.62	25.65	25.68	25.69	26.42	27.26	2.5%
Total	252.36	261.00	259.60	266.67	271.59	279.21	284.38	288.23	293.45	297.30	304.06	310.19	1.9%
Western Electricity Coordinating Council/ California													
Coal	73.97	73.97	89.69	89.65	89.61	89.61	89.61	89.42	94.06	106.30	113.84	121.80	6.7%
Petroleum	1.54	1.76	1.63	1.40	1.64	1.29	1.27	1.82	1.95	1.79	2.00	1.63	-0.8%
Natural Gas	81.02	80.34	73.93	75.27	78.48	83.51	78.14	76.01	74.98	70.07	70.93	69.35	-0.2%
Nuclear	43.76	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	43.82	0.1%
Pumped Storage/Other 1/	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	-0.95	7.8%
Renewables 2/	72.61	74.85	76.04	76.73	77.36	79.38	86.19	90.89	91.46	91.98	92.71	93.85	3.0%
Total	277.36	285.85	293.48	302.87	314.14	326.30	335.63	340.23	343.47	351.23	359.81	370.76	2.6%

Table 74. Electric 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, and spent sulfite liquor.

2/ Renewables include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding combined heat and power).

Sources: 2002: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source  
(Gigawatts)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>East Central Area Reliability Coordination Agreement</b>													
Coal Steam	84.34	84.34	84.33	84.17	83.59	82.17	81.85	81.85	81.32	81.32	81.32	81.32	81.32
Other Fossil Steam 1/	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.81	3.81	3.81	3.81	3.81
Combined Cycle	4.24	8.72	11.97	12.95	12.95	12.95	12.95	12.95	12.91	12.91	13.96	14.60	15.67
Combustion Turbine/ Diesel	13.84	19.59	21.22	21.22	21.14	21.14	21.11	21.08	18.97	19.21	19.83	19.93	20.20
Nuclear Power	7.68	7.69	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72
Pumped Storage/Other 2/	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36
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/	1.72	1.73	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.92	1.95	2.01
Total	119.01	129.25	134.27	135.09	134.43	133.01	132.67	132.63	129.94	130.18	131.92	132.70	134.09
<b>Electric Reliability Council of Texas</b>													
Coal Steam	15.24	15.24	15.24	15.24	15.24	15.24	15.24	15.24	15.59	15.59	15.59	15.59	15.59
Other Fossil Steam 1/	30.08	30.01	29.72	29.48	28.95	27.99	25.73	24.59	21.33	20.90	20.81	19.77	19.67
Combined Cycle	11.15	16.05	19.10	19.78	19.78	19.78	19.78	19.78	21.09	22.38	23.02	23.65	24.83
Combustion Turbine/ Diesel	6.02	6.58	6.16	6.16	6.14	6.14	5.79	5.79	6.20	7.24	7.60	8.27	8.55
Nuclear Power	4.83	4.83	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.95	4.95	4.95	4.95
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/	1.52	1.81	2.06	2.08	2.08	2.08	2.08	2.09	2.12	2.18	2.20	2.21	2.21
Total	68.84	74.52	77.14	77.60	77.06	76.11	73.49	72.43	71.36	73.46	74.47	74.81	76.23
<b>Mid-Atlantic Area Council</b>													
Coal Steam	20.20	20.09	19.89	20.42	20.37	20.37	20.37	20.37	20.37	20.37	20.37	20.37	20.37
Other Fossil Steam 1/	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.33	8.33	8.33	8.33
Combined Cycle	5.80	9.37	12.97	13.70	13.70	13.70	13.70	13.70	13.70	13.97	14.30	14.30	14.57
Combustion Turbine/ Diesel	9.93	11.18	11.77	11.91	11.91	11.91	11.91	11.91	11.78	12.76	13.67	14.14	14.91
Nuclear Power	13.02	13.04	13.14	13.30	13.30	13.41	13.41	13.41	13.43	13.43	13.43	13.43	13.43
Pumped Storage/Other 2/	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
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/	1.91	1.92	1.95	1.95	1.96	1.96	1.97	1.98	1.98	2.01	2.01	2.01	2.01
Total	60.53	65.27	69.39	70.96	70.91	71.02	71.03	71.04	71.01	72.33	73.64	74.18	75.29
<b>Mid-America Interconnected Network</b>													
Coal Steam	29.55	29.55	29.55	29.55	29.23	29.76	29.67	29.67	29.54	29.54	29.54	29.54	29.54
Other Fossil Steam 1/	3.99	4.00	4.00	4.00	4.00	4.00	4.00	4.00	2.28	0.05	0.03	0.03	0.03
Combined Cycle	1.90	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Combustion Turbine/ Diesel	11.98	15.49	15.61	15.61	15.48	15.48	15.48	15.48	15.21	15.21	15.21	15.00	15.00
Nuclear Power	13.67	14.07	14.08	14.08	14.08	14.14	14.14	14.26	14.26	14.26	14.34	14.34	14.34
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/	1.04	1.06	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Total	62.58	68.87	69.06	69.07	68.61	69.19	69.11	69.22	67.10	64.87	64.93	64.72	64.72
<b>Mid-Continent Area Power Pool</b>													
Coal Steam	18.67	18.67	18.67	18.67	18.67	18.64	18.64	18.64	18.63	18.63	18.63	18.63	18.63
Other Fossil Steam 1/	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
Combined Cycle	0.61	0.76	0.76	0.76	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Combustion Turbine/ Diesel	6.17	6.66	7.40	7.49	7.49	7.49	7.56	8.20	8.74	9.24	9.65	9.82	10.17
Nuclear Power	3.32	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34
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/	4.07	4.32	4.64	4.66	4.69	4.87	5.25	5.29	5.33	5.47	5.47	5.47	5.47
Total	33.39	34.30	35.37	35.47	35.73	35.88	36.35	37.04	37.63	38.28	38.70	38.88	39.26

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Northeast Power Coordinating Council/ New York													
Coal Steam	3.74	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
Other Fossil Steam 1/	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	11.33	10.43	10.43	10.43	10.13
Combined Cycle	3.94	3.94	5.19	5.19	5.19	5.19	5.19	5.19	5.19	6.07	6.44	6.45	6.98
Combustion Turbine/ Diesel	4.09	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.52	4.52	4.52	4.52	4.52
Nuclear Power	5.05	5.05	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07
Pumped Storage/Other 2/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
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/	4.67	4.82	4.89	4.97	5.04	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
Total	35.21	35.98	37.33	37.40	37.48	37.62	37.62	37.62	36.33	36.30	36.68	36.68	36.92
Northeast Power Coordinating Council/ New England													
Coal Steam	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.93	2.93	2.93	2.93	2.93
Other Fossil Steam 1/	7.82	7.82	7.82	7.82	7.82	7.82	7.82	7.82	6.75	6.75	6.75	6.75	6.75
Combined Cycle	6.95	9.70	9.91	9.91	9.91	9.91	9.91	9.91	9.91	9.76	10.21	10.32	10.51
Combustion Turbine/ Diesel	1.96	2.98	2.99	2.99	2.99	2.99	2.99	2.99	2.73	2.73	2.73	2.73	2.73
Nuclear Power	4.35	4.34	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
Pumped Storage/Other 2/	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
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.05	0.05	0.05	0.05
Renewable Sources 3/	2.80	2.80	2.83	2.89	2.91	2.92	2.95	3.01	3.07	3.10	3.20	3.20	3.22
Total	28.53	32.30	32.56	32.63	32.64	32.65	32.70	32.78	31.51	31.39	31.94	32.04	32.25
Southeastern Electric Reliability Council/ Florida													
Coal Steam	10.97	11.49	11.49	10.37	10.37	10.37	10.80	11.55	11.55	11.55	12.02	12.02	12.02
Other Fossil Steam 1/	12.44	11.50	10.76	10.76	10.58	10.58	10.58	10.58	10.52	10.52	10.52	10.52	10.52
Combined Cycle	5.04	7.25	9.06	10.89	10.89	10.89	10.89	11.21	12.10	13.01	14.77	16.33	18.26
Combustion Turbine/ Diesel	7.61	12.69	12.69	12.95	16.66	16.52	16.45	16.76	17.08	17.54	17.56	17.63	17.63
Nuclear Power	3.90	3.91	3.91	3.91	3.91	3.91	3.91	3.93	3.93	3.93	3.93	3.93	3.93
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/	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61	0.61	0.64	0.67	0.67	0.67
Total	40.53	47.43	48.50	49.46	52.99	52.86	53.23	54.62	55.77	57.19	59.46	61.10	63.03
Southeastern Electric Reliability Council/ excluding Florida													
Coal Steam	71.73	71.60	71.38	71.38	71.38	71.38	71.27	71.27	71.24	71.24	71.24	71.24	71.24
Other Fossil Steam 1/	19.01	18.98	18.78	18.76	18.76	18.73	18.73	18.68	15.25	15.21	15.21	15.21	15.21
Combined Cycle	10.85	22.01	34.32	34.84	34.84	34.84	34.84	34.84	34.83	34.83	34.83	35.11	35.98
Combustion Turbine/ Diesel	24.12	27.80	29.72	29.72	29.72	29.63	29.51	29.51	27.02	26.91	27.66	29.06	32.22
Nuclear Power	32.06	32.15	32.30	32.43	32.73	32.86	32.98	32.99	33.03	33.08	33.10	33.46	33.82
Pumped Storage/Other 2/	6.47	6.81	6.87	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94
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/	11.77	11.79	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.95	11.99	12.34
Total	176.01	191.15	205.16	205.86	206.16	206.17	206.06	206.02	200.10	199.99	200.91	203.00	207.74
Southwest Power Pool													
Coal Steam	21.60	21.60	21.60	21.60	21.60	21.60	20.06	19.58	19.58	19.58	19.58	19.58	19.58
Other Fossil Steam 1/	13.23	13.09	13.01	12.96	11.60	10.97	10.66	10.63	10.03	8.47	7.88	7.86	7.83
Combined Cycle	3.65	9.55	11.08	11.08	11.08	11.08	11.08	11.08	10.78	10.78	10.78	10.78	11.06
Combustion Turbine/ Diesel	5.25	6.49	6.92	6.92	6.86	6.75	6.75	6.75	6.07	6.02	6.02	6.02	6.02
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.18	1.18
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/	2.67	2.68	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.87	2.87	2.87	2.87
Total	48.07	55.09	57.14	57.09	55.67	54.93	53.08	52.57	50.99	49.39	48.81	48.79	49.05

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Western Electricity Coordinating Council/ Northwest Power Pool Area													
Coal Steam	11.42	11.42	11.50	11.50	11.50	11.50	11.50	11.50	12.62	13.60	13.93	14.81	14.81
Other Fossil Steam 1/	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
Combined Cycle	2.32	3.83	4.38	4.38	4.38	4.38	4.38	4.38	4.14	4.87	4.87	4.87	6.10
Combustion Turbine/ Diesel	1.59	2.47	2.47	2.48	3.03	3.03	3.03	3.03	2.77	2.77	2.77	2.77	3.00
Nuclear Power	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12
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/	36.46	36.59	36.70	36.70	36.71	36.71	36.76	36.91	37.04	37.31	37.47	37.64	37.82
Total	53.92	56.45	57.18	57.19	57.74	57.75	57.80	57.95	58.73	60.70	61.22	62.32	64.01
Western Electricity Coordinating Council/ Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal Steam	15.61	15.61	15.61	15.61	15.61	15.50	15.50	15.50	15.50	15.50	15.50	15.50	16.86
Other Fossil Steam 1/	2.79	2.79	2.68	2.68	2.68	2.64	2.64	2.64	2.14	2.05	1.40	1.40	1.40
Combined Cycle	5.12	8.85	14.97	16.07	16.07	16.07	16.07	16.07	15.69	15.69	15.69	15.69	15.69
Combustion Turbine/ Diesel	3.39	5.21	5.64	5.64	5.64	5.64	5.64	5.64	4.43	4.43	4.43	4.43	4.43
Nuclear Power	2.71	2.71	2.73	2.73	2.75	2.75	2.78	2.78	2.78	2.78	2.78	2.78	2.78
Pumped Storage/Other 2/	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
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	6.13	6.66	6.67	6.82	6.87	6.89	6.92	6.97	7.00	7.05	7.08	7.22
Total	36.49	42.04	49.04	50.15	50.32	50.22	50.27	50.30	48.25	48.19	47.60	47.62	49.12
Western Electricity Coordinating Council/ California													
Coal Steam	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	5.19	6.66	7.27	8.18	8.96
Other Fossil Steam 1/	19.67	19.55	18.52	18.52	18.52	18.52	18.52	18.52	18.34	18.34	18.34	18.34	18.34
Combined Cycle	3.93	6.19	8.87	9.98	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51
Combustion Turbine/ Diesel	6.02	6.98	7.90	7.90	7.89	7.89	7.89	7.89	7.89	7.89	7.89	7.95	8.60
Nuclear Power	5.35	5.35	5.36	5.36	5.36	5.36	5.37	5.37	5.37	5.37	5.37	5.37	5.37
Pumped Storage/Other 2/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
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/	15.33	15.47	15.72	15.69	15.77	16.16	16.45	16.69	16.80	16.90	17.08	17.28	17.48
Total	58.66	61.90	64.73	65.81	66.41	66.79	67.10	67.34	67.83	69.40	70.22	71.42	73.12

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
East Central Area Reliability Coordination Agreement													
Coal Steam	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	81.32	-0.2%
Other Fossil Steam 1/	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	0.0%
Combined Cycle	17.12	18.36	19.28	20.80	22.42	24.16	25.71	27.66	29.13	31.03	32.03	33.97	6.1%
Combustion Turbine/ Diesel	20.20	20.47	20.47	20.53	20.73	21.13	21.62	22.11	22.77	23.39	24.02	24.69	1.0%
Nuclear Power	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	7.72	0.0%
Pumped Storage/Other 2/	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	N/A
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	N/A
Renewable Sources 3/	2.01	2.06	2.15	2.20	2.30	2.39	2.42	2.42	2.42	2.42	2.42	2.42	1.5%
Total	135.54	137.11	138.12	139.74	141.67	143.88	145.96	148.40	150.57	153.09	154.72	157.33	0.9%
Electric Reliability Council of Texas													
Coal Steam	15.59	15.59	15.59	15.59	15.59	15.59	15.59	15.59	15.59	16.65	17.20	18.19	0.8%
Other Fossil Steam 1/	19.67	19.51	19.51	19.51	19.11	18.97	18.75	18.17	17.93	17.70	17.57	16.77	-2.5%
Combined Cycle	25.68	26.10	26.53	27.74	27.74	28.46	29.17	30.29	31.10	31.34	31.50	31.97	3.0%
Combustion Turbine/ Diesel	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.54	8.54	1.1%
Nuclear Power	4.95	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	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	N/A
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	N/A
Renewable Sources 3/	2.21	2.21	2.21	2.22	2.22	2.25	2.28	2.31	2.31	2.32	2.32	2.36	1.2%
Total	77.16	77.73	78.22	79.49	79.15	79.81	80.38	81.00	81.62	82.74	83.35	84.10	0.5%
Mid-Atlantic Area Council													
Coal Steam	20.37	20.37	20.37	20.37	21.06	21.36	21.90	22.57	22.87	23.13	23.67	24.37	0.8%
Other Fossil Steam 1/	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	0.0%
Combined Cycle	14.57	14.94	14.98	15.47	15.47	15.92	16.07	16.31	16.95	17.54	17.54	17.54	2.8%
Combustion Turbine/ Diesel	15.64	15.93	15.93	16.02	16.02	16.02	16.02	16.09	16.21	16.47	16.47	16.47	1.7%
Nuclear Power	13.43	13.43	13.43	13.67	13.67	13.67	13.67	13.67	13.67	13.67	13.67	13.67	0.2%
Pumped Storage/Other 2/	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	N/A
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	N/A
Renewable Sources 3/	2.01	2.01	2.01	2.01	2.01	2.05	2.10	2.15	2.19	2.22	2.22	2.22	0.6%
Total	76.22	77.07	77.28	78.25	79.10	80.03	80.92	82.11	83.38	84.69	85.38	86.23	1.2%
Mid-America Interconnected Network													
Coal Steam	29.54	29.54	29.54	29.54	29.05	29.05	29.05	28.47	28.47	28.47	28.47	28.77	-0.1%
Other Fossil Steam 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	-18.9%
Combined Cycle	4.25	4.25	4.25	4.25	4.36	4.55	4.71	5.23	5.29	5.57	5.89	6.47	1.8%
Combustion Turbine/ Diesel	15.00	15.00	15.17	15.73	16.71	17.30	17.76	18.72	19.45	20.16	20.45	20.63	1.3%
Nuclear Power	14.34	14.34	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	0.2%
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	N/A
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	N/A
Renewable Sources 3/	1.13	1.13	1.13	1.13	1.22	1.22	1.22	1.24	1.24	1.24	1.24	1.30	0.9%
Total	64.76	64.79	65.32	66.00	66.81	67.72	68.45	69.51	70.44	71.57	72.31	73.57	0.3%
Mid-Continent Area Power Pool													
Coal Steam	18.63	18.63	18.66	18.94	19.57	20.68	21.58	22.47	22.99	23.64	23.91	23.91	1.1%
Other Fossil Steam 1/	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.43	-1.2%
Combined Cycle	0.97	0.97	0.97	0.97	0.97	0.97	1.18	1.18	1.18	1.18	1.18	1.18	1.9%
Combustion Turbine/ Diesel	10.72	11.35	11.76	12.01	12.01	11.60	10.99	10.95	12.02	12.02	12.02	12.02	2.6%
Nuclear Power	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	N/A
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	N/A
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	N/A
Renewable Sources 3/	5.50	5.54	5.59	5.59	5.59	5.59	5.61	5.61	5.61	5.61	5.61	5.61	1.1%
Total	39.87	40.57	41.08	41.64	42.29	43.03	43.64	44.59	46.23	46.91	47.22	47.08	1.4%



Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Northeast Power Coordinating Council/ New York</b>													
Coal Steam	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	4.32	4.80	5.62	6.29	2.3%
Other Fossil Steam 1/	10.13	10.00	10.00	10.00	10.00	10.00	10.00	9.45	8.93	8.93	8.55	7.73	-2.1%
Combined Cycle	7.38	7.79	8.06	8.31	8.50	8.76	8.78	9.32	9.32	9.32	9.32	9.32	3.8%
Combustion Turbine/ Diesel	4.52	4.52	4.52	4.52	4.52	4.24	4.24	4.24	4.24	4.24	4.24	3.96	-0.7%
Nuclear Power	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	0.0%
Pumped Storage/Other 2/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	N/A
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	N/A
Renewable Sources 3/	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.21	5.21	5.21	5.21	5.21	0.3%
Total	37.32	37.60	37.86	38.12	38.30	38.29	38.31	38.32	38.38	38.86	39.30	38.86	0.3%
<b>Northeast Power Coordinating Council/ New England</b>													
Coal Steam	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	3.51	0.8%
Other Fossil 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	-0.6%
Combined Cycle	10.73	10.99	11.20	11.48	11.85	12.26	12.62	12.98	13.39	13.87	14.14	14.14	1.6%
Combustion Turbine/ Diesel	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	-0.4%
Nuclear Power	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	0.0%
Pumped Storage/Other 2/	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	N/A
Fuel Cells	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Renewable Sources 3/	3.22	3.26	3.30	3.39	3.55	3.74	3.74	3.87	4.02	4.23	4.82	4.82	2.4%
Total	32.49	32.80	33.06	33.44	33.96	34.58	34.95	35.44	36.00	36.72	37.57	38.15	0.7%
<b>Southeastern Electric Reliability Council/ Florida</b>													
Coal Steam	12.02	12.02	12.18	12.18	12.70	13.02	14.87	17.08	19.23	21.08	22.00	22.99	3.1%
Other Fossil Steam 1/	10.52	10.52	10.52	10.01	10.01	10.01	9.94	9.94	9.94	9.70	9.70	9.70	-0.7%
Combined Cycle	19.88	21.25	21.81	22.60	23.48	24.33	24.33	24.33	24.33	24.33	24.33	24.33	5.4%
Combustion Turbine/ Diesel	17.63	17.63	17.63	17.84	18.18	18.62	18.62	18.62	18.62	18.62	18.62	18.54	1.7%
Nuclear Power	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	0.0%
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	N/A
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	N/A
Renewable Sources 3/	0.67	0.67	0.67	0.72	0.83	0.88	0.88	0.88	0.88	0.88	0.92	0.95	2.1%
Total	64.68	66.08	66.82	67.41	69.32	71.05	72.89	75.18	77.37	79.01	80.00	80.97	2.4%
<b>Southeastern Electric Reliability Council/ excluding Florida</b>													
Coal Steam	70.71	70.71	70.71	70.98	74.25	78.47	81.92	86.51	91.52	96.12	98.24	101.01	1.5%
Other Fossil Steam 1/	14.90	14.90	14.90	14.82	14.82	14.72	14.72	14.72	14.72	14.72	14.72	14.72	-1.1%
Combined Cycle	38.73	40.91	42.15	43.89	43.89	43.89	44.80	45.43	45.43	45.43	45.58	45.76	3.2%
Combustion Turbine/ Diesel	34.35	35.67	36.70	37.32	37.32	37.32	37.56	37.65	37.65	37.65	37.85	38.06	1.4%
Nuclear Power	34.18	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	34.30	0.3%
Pumped Storage/Other 2/	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	0.1%
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	N/A
Renewable Sources 3/	12.54	12.67	12.67	12.82	12.82	12.82	12.85	12.85	12.85	12.85	12.88	12.94	0.4%
Total	212.35	216.11	218.37	221.08	224.35	228.54	233.24	238.64	243.74	248.34	250.85	254.06	1.2%
<b>Southwest Power Pool</b>													
Coal Steam	19.58	19.58	19.58	19.58	20.23	20.23	20.23	20.16	20.88	21.62	22.09	22.89	0.3%
Other Fossil Steam 1/	7.83	7.83	7.83	7.83	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	-2.2%
Combined Cycle	11.66	12.06	12.41	12.98	12.98	13.63	14.18	14.76	14.76	14.76	14.76	14.76	1.9%
Combustion Turbine/ Diesel	6.26	6.53	6.68	6.68	6.68	6.68	6.78	6.85	6.83	6.83	6.83	6.83	0.2%
Nuclear Power	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	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	N/A
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	N/A
Renewable Sources 3/	2.88	2.88	2.88	2.89	2.89	2.89	2.93	2.94	2.94	2.94	2.94	2.95	0.4%
Total	49.90	50.56	51.06	51.64	52.24	52.89	53.58	54.16	54.88	55.62	56.09	56.89	0.1%

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Western Electricity Coordinating Council/ Northwest Power Pool Area													
Coal Steam	15.61	16.75	18.67	20.93	20.93	22.10	23.44	24.96	26.60	29.24	29.72	31.47	4.5%
Other Fossil Steam 1/	0.72	0.72	0.72	0.72	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	-0.1%
Combined Cycle	6.99	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	7.57	3.0%
Combustion Turbine/ Diesel	3.00	3.18	3.18	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.22	1.1%
Nuclear Power	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%
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	N/A
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	N/A
Renewable Sources 3/	37.91	38.04	38.10	38.34	38.40	38.50	38.58	38.64	38.69	38.70	38.83	39.39	0.3%
Total	65.84	68.10	70.15	73.39	73.51	75.01	76.66	78.48	80.25	82.97	83.66	85.59	1.8%
Western Electricity Coordinating Council/ Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal Steam	18.19	20.56	20.56	23.09	23.09	23.83	25.05	26.34	27.66	28.94	29.76	30.79	3.0%
Other Fossil Steam 1/	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	-3.0%
Combined Cycle	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	15.69	2.5%
Combustion Turbine/ Diesel	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	-0.7%
Nuclear Power	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	0.1%
Pumped Storage/Other 2/	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	N/A
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	N/A
Renewable Sources 3/	7.27	7.31	7.32	7.32	7.32	7.38	7.43	7.43	7.44	7.44	7.58	7.75	1.0%
Total	50.52	52.96	52.98	55.57	55.60	56.46	57.78	59.14	60.53	61.87	62.85	64.08	1.8%
Western Electricity Coordinating Council/ California													
Coal Steam	9.77	9.77	11.89	11.89	11.89	11.89	11.89	11.89	12.54	14.39	15.55	16.80	5.8%
Other Fossil Steam 1/	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	-0.3%
Combined Cycle	10.51	10.82	10.82	11.54	12.54	12.54	12.54	12.54	12.54	12.54	12.54	12.54	3.1%
Combustion Turbine/ Diesel	9.62	12.09	13.01	14.58	14.67	15.50	16.28	17.59	19.01	19.25	19.65	20.28	4.8%
Nuclear Power	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	0.0%
Pumped Storage/Other 2/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	N/A
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	N/A
Renewable Sources 3/	17.76	18.25	18.45	18.53	18.63	19.03	20.71	21.80	21.86	21.92	22.03	22.22	1.6%
Total	75.32	78.68	82.29	85.02	86.57	88.13	90.91	93.63	96.08	98.56	100.58	102.98	2.2%

Table 75. Electric 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, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Values represent net summer capacity for utilities and nonutilities (excluding combined heat and power).

Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Sources: 2002: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report." Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 76. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.32	1.32	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
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 Solid Waste 3/	0.16	0.17	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/	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
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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.14	0.18	0.23
Total	1.72	1.73	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.92	1.95	2.01
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.85	3.24	2.82	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
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 Solid Waste 3/	0.82	0.89	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
Wood and Other Biomass 4/	1.30	1.29	2.75	1.79	2.34	2.46	2.79	2.78	3.03	3.74	3.88	3.96	3.90
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	0.19	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.51	0.63	0.83
Total	5.98	5.41	7.10	6.58	7.13	7.25	7.58	7.57	7.83	8.53	8.94	9.13	9.28
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	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
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 Solid Waste 3/	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/	0.02	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Total	0.07	0.07	0.09	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.11	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.16	0.16	0.17
Total	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.18
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.27	0.28	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Wood and Other Biomass 4/	4.03	4.22	4.28	4.53	4.77	4.94	5.05	5.16	5.30	5.49	5.68	5.88	6.09
Total	4.30	4.49	4.59	4.84	5.09	5.25	5.37	5.47	5.62	5.80	5.99	6.20	6.41

Table 76. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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/	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09
Total	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
Solar Photovoltaic	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.48	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
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
Solar Photovoltaic	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.08	0.10	0.12	0.13	0.13	0.13
Total	0.49	0.63	0.63	0.64	0.65	0.66	0.68	0.69	0.71	0.74	0.74	0.74	0.75
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	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
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
Solar Photovoltaic	0.00	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 76. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	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	N/A
Municipal Solid Waste 3/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.1%
Wood and Other Biomass 4/	0.23	0.23	0.23	0.23	0.23	0.23	0.26	0.26	0.26	0.26	0.26	0.26	0.5%
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	N/A
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	N/A
Wind	0.23	0.28	0.38	0.42	0.53	0.62	0.62	0.62	0.62	0.62	0.62	0.62	26.4%
Total	2.01	2.06	2.15	2.20	2.30	2.39	2.42	2.42	2.42	2.42	2.42	2.42	1.5%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	-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	N/A
Municipal Solid Waste 3/	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.8%
Wood and Other Biomass 4/	3.95	3.98	4.00	4.02	3.74	3.59	3.64	3.30	3.17	3.19	3.18	3.08	3.9%
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	N/A
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	N/A
Wind	0.83	1.01	1.35	1.51	1.89	2.19	2.19	2.19	2.19	2.19	2.19	2.19	N/A
Total	9.32	9.53	9.90	10.08	10.18	10.33	10.38	10.04	9.91	9.93	9.92	9.82	2.6%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.1%
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	N/A
Municipal Solid 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	0.7%
Wood and Other Biomass 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	2.1%
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	N/A
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	N/A
Wind	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Total	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.9%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	3.2%
Total	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.6%
Wood and Other Biomass 4/	6.28	6.44	6.58	6.74	6.90	7.02	7.15	7.27	7.40	7.54	7.68	7.83	2.7%
Total	6.60	6.75	6.90	7.06	7.21	7.34	7.46	7.59	7.72	7.86	7.99	8.14	2.6%

Table 76. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
Energy Consumption (quadrillion Btu)														
Municipal Solid 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/	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	2.4%
Total	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	2.2%
Other End-Use Generators 7/														
Generating Capacity (gigawatts)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	15.4%
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	3.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower 8/	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	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	N/A
Solar Photovoltaic	0.13	0.14	0.14	0.14	0.15	0.16	0.19	0.22	0.25	0.28	0.32	0.36	0.36	15.4%
Total	0.75	0.75	0.75	0.76	0.77	0.78	0.80	0.83	0.87	0.90	0.94	0.98	0.98	1.9%
Energy Consumption (quadrillion Btu)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 76. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 77. Renewable Energy Generation by Fuel  
Electric Reliability Council of Texas

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	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
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 Solid Waste 3/	0.02	0.07	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	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	0.98	1.22	1.42	1.44	1.44	1.44	1.44	1.44	1.48	1.53	1.56	1.56	1.56
Total	1.52	1.81	2.06	2.08	2.08	2.08	2.08	2.09	2.12	2.18	2.20	2.21	2.21
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.89	0.61	0.64	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 Solid Waste 3/	0.11	0.20	0.81	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Wood and Other Biomass 4/	0.20	0.26	0.27	0.44	0.57	0.59	0.60	0.28	0.49	0.50	0.55	0.58	0.61
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Wind	1.17	2.01	4.12	4.36	4.38	4.38	4.38	4.38	4.52	4.70	4.79	4.79	4.79
Total	2.38	3.07	5.83	6.42	6.57	6.59	6.60	6.28	6.62	6.82	6.97	7.00	7.04
Energy Consumption (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
Municipal Solid Waste 3/	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	0.00	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	0.01	0.02	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	0.02	0.03	0.06	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.07	0.07
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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
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
Electricity Generation (billion kilowatthours)													
Municipal Solid 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
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 77. Renewable Energy Generation by Fuel  
Electric Reliability Council of Texas

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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
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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 77. Renewable Energy Generation by Fuel  
Electric Reliability Council of Texas

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
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	N/A
Municipal Solid Waste 3/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	2.3%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.09	0.09	0.09	0.09	0.13	N/A
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	N/A
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	15.4%
Wind	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.1%
Total	2.21	2.21	2.21	2.22	2.22	2.25	2.28	2.31	2.31	2.32	2.32	2.36	1.2%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.8%
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	N/A
Municipal Solid Waste 3/	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	6.8%
Wood and Other Biomass 4/	0.61	0.48	0.60	0.42	0.42	0.54	0.65	0.84	0.99	1.02	1.02	1.10	6.5%
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	N/A
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	N/A
Wind	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	3.9%
Total	7.05	6.92	7.04	6.87	6.87	6.99	7.11	7.31	7.46	7.49	7.50	7.58	4.0%
Energy Consumption (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	0.8%
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	N/A
Municipal Solid 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	12.6%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	6.9%
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	N/A
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	N/A
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	3.9%
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	4.3%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	N/A
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	N/A
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	N/A
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	N/A
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	N/A
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	N/A

Table 77. Renewable Energy Generation by Fuel  
 Electric Reliability Council of Texas

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	N/A
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	N/A
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	N/A
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A

Table 77. Renewable Energy Generation by Fuel  
Electric Reliability Council of Texas

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 78. Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
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 Solid Waste 3/	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	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	0.03	0.03	0.06	0.06	0.06	0.06	0.07	0.08	0.08	0.11	0.11	0.11	0.11
Total	1.91	1.92	1.95	1.95	1.96	1.96	1.97	1.98	1.98	2.01	2.01	2.01	2.01
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	2.64	3.41	3.92	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
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 Solid Waste 3/	2.96	3.03	3.71	3.72	3.73	3.73	3.74	3.75	3.75	3.75	3.75	3.75	3.75
Wood and Other Biomass 4/	0.20	0.26	1.62	2.09	2.64	2.65	2.82	2.88	2.96	2.84	2.93	2.95	2.99
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wind	0.01	0.07	0.15	0.18	0.18	0.18	0.21	0.24	0.25	0.33	0.33	0.33	0.33
Total	5.82	6.77	9.41	10.44	11.00	11.02	11.23	11.33	11.42	11.37	11.47	11.49	11.52
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.03	0.04	0.04	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 Solid Waste 3/	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Wood and Other Biomass 4/	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.08	0.09	0.12	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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
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
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.07	0.08	0.09	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/	1.12	1.17	1.19	1.26	1.32	1.37	1.40	1.43	1.47	1.52	1.58	1.63	1.69
Total	1.19	1.25	1.28	1.34	1.41	1.46	1.49	1.52	1.56	1.61	1.66	1.72	1.78

Table 78. Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.13	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
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
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04
Total	0.14	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.21
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 78. Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	N/A
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	N/A
Municipal Solid Waste 3/	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 and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.07	0.13	0.18	0.22	0.25	0.25	0.25	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	N/A
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	N/A
Wind	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	5.0%
Total	2.01	2.01	2.01	2.01	2.01	2.05	2.10	2.15	2.19	2.22	2.22	2.22	0.6%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	1.2%
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	N/A
Municipal Solid Waste 3/	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	0.9%
Wood and Other Biomass 4/	3.00	3.01	3.00	2.99	2.96	2.97	3.12	3.42	3.59	3.66	3.69	3.60	12.2%
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	N/A
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	N/A
Wind	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	6.9%
Total	11.54	11.55	11.54	11.52	11.49	11.51	11.66	11.96	12.13	12.20	12.23	12.14	2.6%
Energy Consumption (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	1.2%
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	N/A
Municipal Solid Waste 3/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	1.1%
Wood and Other Biomass 4/	0.03	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	8.2%
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	N/A
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	N/A
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	6.9%
Total	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	2.2%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
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	3.2%
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	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	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%
Wood and Other Biomass 4/	1.75	1.79	1.83	1.87	1.92	1.95	1.98	2.02	2.06	2.09	2.13	2.17	2.7%
Total	1.83	1.87	1.92	1.96	2.00	2.04	2.07	2.11	2.14	2.18	2.22	2.26	2.6%



Table 78. Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.0%
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	2.4%
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	2.2%
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.4%
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	3.1%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
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	N/A
Solar Photovoltaic	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	15.4%
Total	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.23	0.24	0.25	0.26	0.27	1.9%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 78. Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council

- 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 landfill gas.
- 4/ Includes projections for energy crops after 2010.
- 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
- 6/ Combined heat and power produces electricity and other useful thermal energy.
- 7/ Includes 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.
- 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 79. Renewable Energy Generation by Fuel  
Mid-America Interconnected Network

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	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
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 Solid Waste 3/	0.31	0.33	0.34	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/	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
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	0.04	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Total	1.04	1.06	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	2.90	2.69	2.12	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
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 Solid Waste 3/	0.73	0.96	2.21	2.26	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27
Wood and Other Biomass 4/	0.33	0.37	0.44	0.50	0.74	0.77	0.80	0.82	0.86	0.90	0.91	0.94	0.94
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	0.07	0.11	0.25	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Total	4.04	4.12	5.03	5.47	5.72	5.75	5.78	5.80	5.84	5.88	5.89	5.92	5.92
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.03	0.03	0.02	0.02	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
Municipal Solid Waste 3/	0.01	0.01	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/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.00	0.00	0.00	0.00	0.00
Total	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.17	0.18	0.18	0.19	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.26	0.28
Total	0.18	0.19	0.19	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.08	0.08	0.09	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/	1.16	1.21	1.23	1.30	1.37	1.42	1.45	1.48	1.53	1.58	1.63	1.69	1.75
Total	1.24	1.29	1.32	1.39	1.46	1.51	1.54	1.58	1.62	1.67	1.72	1.78	1.84

Table 79. Renewable Energy Generation by Fuel  
Mid-America Interconnected Network

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.02	0.02	0.02	0.02	0.02	0.02	0.03
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.14	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
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
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.04
Total	0.14	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.21	0.21	0.21	0.21	0.21
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 79. Renewable Energy Generation by Fuel  
Mid-America Interconnected Network

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	N/A
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	N/A
Municipal Solid Waste 3/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.2%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.13	15.4%
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	N/A
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	N/A
Wind	0.09	0.09	0.09	0.09	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	5.3%
Total	1.13	1.13	1.13	1.13	1.22	1.22	1.22	1.24	1.24	1.24	1.24	1.30	0.9%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	-0.5%
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	N/A
Municipal Solid Waste 3/	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	3.8%
Wood and Other Biomass 4/	0.95	0.95	0.96	0.96	1.02	1.08	1.12	1.15	1.20	1.23	1.23	1.29	5.6%
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	N/A
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	N/A
Wind	0.29	0.29	0.29	0.29	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	6.5%
Total	5.93	5.93	5.94	5.94	6.16	6.22	6.26	6.29	6.34	6.37	6.37	6.43	2.0%
Energy Consumption (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	-0.5%
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	N/A
Municipal Solid Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3.7%
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	6.1%
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	N/A
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	N/A
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	6.5%
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	2.0%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.29	0.29	0.30	0.31	0.32	0.32	0.33	0.34	0.34	0.35	0.36	0.37	3.2%
Total	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.38	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	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%
Wood and Other Biomass 4/	1.81	1.85	1.89	1.94	1.98	2.02	2.06	2.09	2.13	2.17	2.21	2.25	2.7%
Total	1.90	1.94	1.98	2.03	2.08	2.11	2.15	2.18	2.22	2.26	2.30	2.34	2.6%

Table 79. Renewable Energy Generation by Fuel  
Mid-America Interconnected Network

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.0%
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	2.4%
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	2.2%
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	15.4%
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.10	3.1%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	15.4%
Total	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.24	0.25	0.26	0.27	0.28	1.9%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 79. Renewable Energy Generation by Fuel  
Mid-America Interconnected Network

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 80. Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18
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 Solid Waste 3/	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Wood and Other Biomass 4/	0.13	0.16	0.16	0.16	0.16	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
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	0.64	0.85	1.17	1.19	1.22	1.35	1.73	1.77	1.80	1.95	1.95	1.95	1.95
Total	4.07	4.32	4.64	4.66	4.69	4.87	5.25	5.29	5.33	5.47	5.47	5.47	5.47
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	8.44	10.00	13.05	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81
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 Solid Waste 3/	0.98	1.03	0.82	0.82	0.82	0.82	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Wood and Other Biomass 4/	0.23	0.29	0.90	0.93	0.96	1.20	1.28	1.28	1.28	1.29	1.29	1.29	1.29
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	1.39	1.96	2.90	3.22	3.32	3.70	4.84	5.28	5.41	5.82	5.93	5.93	5.93
Total	11.04	13.28	17.66	19.79	19.92	20.54	21.78	22.22	22.35	22.77	22.87	22.87	22.87
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.09	0.10	0.13	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 Solid 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
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 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	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06
Total	0.12	0.15	0.18	0.21	0.21	0.21	0.23	0.23	0.23	0.24	0.24	0.24	0.24
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.12	0.13	0.13	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.19	0.19
Total	0.13	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.19	0.19	0.20
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.08	0.08	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/	1.23	1.28	1.30	1.38	1.45	1.50	1.54	1.57	1.61	1.67	1.73	1.79	1.86
Total	1.31	1.37	1.40	1.47	1.55	1.60	1.63	1.67	1.71	1.77	1.82	1.89	1.95



Table 80. Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
Solar Photovoltaic	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	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
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
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.04
Total	0.15	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 80. Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	N/A
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	N/A
Municipal Solid Waste 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	0.1%
Wood and Other Biomass 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	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	N/A
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	N/A
Wind	1.98	2.02	2.07	2.07	2.07	2.07	2.09	2.09	2.09	2.09	2.09	2.09	4.0%
Total	5.50	5.54	5.59	5.59	5.59	5.59	5.61	5.61	5.61	5.61	5.61	5.61	1.1%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	1.7%
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	N/A
Municipal Solid Waste 3/	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	-0.8%
Wood and Other Biomass 4/	1.28	1.28	1.28	1.28	1.28	1.28	1.25	1.24	1.24	1.24	1.24	1.22	6.5%
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	N/A
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	N/A
Wind	6.05	6.20	6.36	6.36	6.36	6.36	6.44	6.44	6.44	6.44	6.44	6.44	5.3%
Total	23.00	23.15	23.31	23.31	23.30	23.30	23.36	23.34	23.34	23.34	23.34	23.32	2.5%
Energy Consumption (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	1.7%
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	N/A
Municipal Solid 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	-0.9%
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	1.2%
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	N/A
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	N/A
Wind	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	5.3%
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	2.2%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	3.2%
Total	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.6%
Wood and Other Biomass 4/	1.91	1.96	2.00	2.05	2.10	2.14	2.18	2.21	2.25	2.30	2.34	2.38	2.7%
Total	2.01	2.05	2.10	2.15	2.20	2.23	2.27	2.31	2.35	2.39	2.43	2.48	2.6%

Table 80. Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
Energy Consumption (quadrillion Btu)														
Municipal Solid 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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	2.4%
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	2.2%
Other End-Use Generators 7/														
Generating Capacity (gigawatts)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	15.4%
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	3.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower 8/	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	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	N/A
Solar Photovoltaic	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	15.4%
Total	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.25	0.26	0.27	0.29	0.30	0.30	1.9%
Energy Consumption (quadrillion Btu)														
Conventional Hydropower 8/	0.00	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 80. Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 81. Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council / New York

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	4.30	4.44	4.52	4.59	4.66	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80
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 Solid Waste 3/	0.28	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/	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	0.05	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	4.67	4.82	4.89	4.97	5.04	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	23.00	25.24	25.16	25.51	25.85	26.55	26.81	26.81	26.81	26.81	26.81	26.81	26.81
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 Solid Waste 3/	1.43	1.48	1.79	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Wood and Other Biomass 4/	0.50	0.47	0.68	1.14	1.58	1.61	1.52	1.46	1.47	1.54	1.47	1.58	1.42
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	0.09	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Total	24.95	27.28	27.75	28.57	29.36	30.08	30.25	30.19	30.19	30.27	30.20	30.31	30.15
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.24	0.26	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28
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 Solid Waste 3/	0.03	0.02	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/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.00	0.00	0.00	0.00	0.00
Total	0.26	0.29	0.29	0.30	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.02	0.02	0.02
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
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.10	0.11	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/	1.55	1.62	1.65	1.74	1.84	1.90	1.95	1.99	2.04	2.11	2.19	2.26	2.35
Total	1.66	1.73	1.77	1.87	1.96	2.02	2.07	2.11	2.16	2.23	2.31	2.39	2.47

Table 81. Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council / New York

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.19	0.24	0.24	0.24	0.24	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
Solar Photovoltaic	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05
Total	0.19	0.24	0.24	0.25	0.25	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 81. Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council / New York

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	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	N/A
Municipal Solid Waste 3/	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.1%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.07	2.4%
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	N/A
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	N/A
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	N/A
Total	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.21	5.21	5.21	5.21	5.21	0.3%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	26.81	26.81	26.81	26.81	26.81	26.81	26.81	26.81	26.81	26.81	26.81	26.81	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	N/A
Municipal Solid Waste 3/	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	0.9%
Wood and Other Biomass 4/	1.42	1.42	1.43	1.43	1.42	1.42	1.42	1.54	1.58	1.60	1.59	1.58	5.4%
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	N/A
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	N/A
Wind	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.4%
Total	30.15	30.15	30.15	30.15	30.15	30.15	30.15	30.27	30.30	30.32	30.32	30.31	0.5%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.3%
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	N/A
Municipal Solid Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.5%
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	7.9%
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	N/A
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	N/A
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	1.4%
Total	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.5%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
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	3.2%
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	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	0.6%
Wood and Other Biomass 4/	2.42	2.48	2.53	2.60	2.66	2.70	2.75	2.80	2.85	2.91	2.96	3.02	2.7%
Total	2.54	2.60	2.66	2.72	2.78	2.83	2.87	2.92	2.97	3.03	3.08	3.14	2.6%

Table 81. Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council / New York

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
Energy Consumption (quadrillion Btu)														
Municipal Solid 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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.4%
Total	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	2.2%
Other End-Use Generators 7/														
Generating Capacity (gigawatts)														
Conventional Hydropower 8/	0.00	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.4%
Total	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	3.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.10	0.11	0.12	0.14	0.14	15.4%
Total	0.29	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.35	0.36	0.38	0.38	1.9%
Energy Consumption (quadrillion Btu)														
Conventional Hydropower 8/	0.00	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%



Table 81. Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council / New York

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 82. Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council / New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	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
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 Solid Waste 3/	0.64	0.64	0.65	0.65	0.66	0.66	0.66	0.67	0.67	0.69	0.69	0.69	0.69
Wood and Other Biomass 4/	0.42	0.42	0.44	0.45	0.46	0.47	0.49	0.52	0.54	0.54	0.54	0.54	0.54
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	0.07	0.07	0.07	0.07	0.10	0.13	0.13	0.23	0.23	0.25
Total	2.80	2.80	2.83	2.89	2.91	2.92	2.95	3.01	3.07	3.10	3.20	3.20	3.22
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	4.47	4.82	4.44	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04
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 Solid Waste 3/	4.19	4.05	4.79	4.81	4.83	4.86	4.89	4.91	4.94	5.13	5.13	5.13	5.13
Wood and Other Biomass 4/	2.49	2.26	2.50	2.57	2.63	2.69	2.83	3.00	3.17	3.21	3.21	3.21	3.21
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	0.04	0.12	0.20	0.20	0.20	0.29	0.41	0.44	0.79	0.79	0.86
Total	11.17	11.13	11.76	12.54	12.70	12.79	12.95	13.24	13.56	13.81	14.17	14.17	14.24
Energy Consumption (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
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 Solid Waste 3/	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Total	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid Waste	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
Wood and Other Biomass 4/	0.45	0.46	0.47	0.50	0.53	0.56	0.57	0.59	0.61	0.63	0.66	0.68	0.71
Total	0.47	0.49	0.50	0.53	0.56	0.59	0.60	0.62	0.64	0.66	0.69	0.71	0.74
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.51	0.53	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Wood and Other Biomass 4/	7.76	8.12	8.24	8.72	9.19	9.51	9.73	9.94	10.21	10.57	10.93	11.32	11.74
Total	8.28	8.65	8.84	9.33	9.79	10.12	10.34	10.54	10.82	11.17	11.54	11.93	12.34

Table 82. Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council / New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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/	0.11	0.12	0.12	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.17
Total	0.12	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05
Total	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.17	0.17	0.17
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.93	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
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
Solar Photovoltaic	0.02	0.03	0.03	0.05	0.06	0.09	0.12	0.15	0.19	0.24	0.24	0.25	0.25
Total	0.94	1.21	1.22	1.23	1.25	1.27	1.30	1.34	1.38	1.42	1.43	1.43	1.44
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	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
Solar Photovoltaic	0.00	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 82. Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council / New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	0.0%
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	N/A
Municipal Solid Waste 3/	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.4%
Wood and Other Biomass 4/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	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	N/A
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	N/A
Wind	0.25	0.30	0.34	0.43	0.59	0.78	0.78	0.91	1.05	1.27	1.86	1.86	23.7%
Total	3.22	3.26	3.30	3.39	3.55	3.74	3.74	3.87	4.02	4.23	4.82	4.82	2.4%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	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	N/A
Municipal Solid Waste 3/	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	1.0%
Wood and Other Biomass 4/	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	1.5%
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	N/A
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	N/A
Wind	0.86	1.02	1.18	1.51	2.07	2.79	2.79	3.25	3.79	4.60	6.77	6.77	32.8%
Total	14.24	14.40	14.56	14.89	15.45	16.16	16.16	16.63	17.16	17.98	20.15	20.15	2.6%
Energy Consumption (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	0.2%
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	N/A
Municipal Solid Waste 3/	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%
Wood and Other Biomass 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	0.9%
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	N/A
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	N/A
Wind	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.07	0.07	32.8%
Total	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.22	0.24	0.24	2.2%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.74	0.76	0.78	0.80	0.82	0.84	0.86	0.87	0.89	0.91	0.93	0.95	3.2%
Total	0.77	0.79	0.81	0.83	0.85	0.87	0.89	0.90	0.92	0.94	0.96	0.98	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.6%
Wood and Other Biomass 4/	12.10	12.40	12.67	12.98	13.29	13.52	13.77	14.00	14.25	14.53	14.79	15.08	2.7%
Total	12.71	13.00	13.28	13.59	13.89	14.13	14.37	14.61	14.86	15.13	15.39	15.68	2.6%

Table 82. Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council / New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
Energy Consumption (quadrillion Btu)														
Municipal Solid 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/	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	2.4%
Total	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.22	2.2%
Other End-Use Generators 7/														
Generating Capacity (gigawatts)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.13	15.4%
Total	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.20	0.21	0.22	0.24	0.25	0.25	3.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower 8/	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	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	N/A
Solar Photovoltaic	0.26	0.26	0.27	0.27	0.29	0.32	0.36	0.42	0.48	0.55	0.62	0.70	0.70	15.4%
Total	1.44	1.45	1.45	1.46	1.48	1.50	1.55	1.60	1.67	1.73	1.80	1.88	1.88	1.9%
Energy Consumption (quadrillion Btu)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 82. Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council / New England

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 83. Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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 Solid Waste 3/	0.52	0.52	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.08	0.08	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	0.00	0.00	0.00	0.00	0.00
Total	0.59	0.59	0.59	0.59	0.59	0.59	0.61	0.61	0.61	0.64	0.67	0.67	0.67
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.15	0.18	0.19	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
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 Solid Waste 3/	3.02	3.17	3.50	3.50	3.50	3.50	3.64	3.64	3.64	3.64	3.64	3.64	3.64
Wood and Other Biomass 4/	0.42	0.48	0.75	0.59	0.75	0.79	0.85	0.91	0.90	1.04	1.22	1.33	1.37
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	0.00	0.00	0.00	0.00	0.00
Total	3.59	3.83	4.44	4.30	4.47	4.51	4.71	4.77	4.76	4.90	5.08	5.19	5.23
Energy Consumption (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
Municipal Solid Waste 3/	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
Wood and Other Biomass 4/	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.00	0.00	0.00	0.00	0.00
Total	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.23	0.23	0.24	0.25	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36
Total	0.24	0.25	0.25	0.27	0.28	0.30	0.30	0.31	0.32	0.33	0.35	0.36	0.37
Electricity Generation (billion kilowatthours)													
Municipal Solid 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
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 83. Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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
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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Total	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 83. Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	N/A
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	N/A
Municipal Solid Waste 3/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.2%
Wood and Other Biomass 4/	0.08	0.08	0.08	0.13	0.24	0.29	0.29	0.29	0.29	0.29	0.33	0.36	15.0%
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	N/A
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	N/A
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	N/A
Total	0.67	0.67	0.67	0.72	0.83	0.88	0.88	0.88	0.88	0.88	0.92	0.95	2.1%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.7%
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	N/A
Municipal Solid Waste 3/	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	0.6%
Wood and Other Biomass 4/	1.37	1.40	1.40	1.53	2.03	2.46	2.68	2.75	2.73	2.73	2.81	2.92	8.2%
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	N/A
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	N/A
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	N/A
Total	5.23	5.26	5.26	5.39	5.89	6.32	6.54	6.61	6.59	6.59	6.67	6.78	2.5%
Energy Consumption (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	0.7%
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	N/A
Municipal Solid Waste 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	0.4%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	12.4%
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	N/A
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	N/A
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	N/A
Total	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	2.0%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	3.2%
Total	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.49	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	N/A
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	N/A
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	N/A

Table 83. Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Energy Consumption</b> (quadrillion Btu)													
Municipal Solid 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	N/A
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	N/A
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	N/A
<b>Other End-Use Generators 7/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.07	15.4%
Total	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.13	3.1%
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A

Table 83. Renewable Energy Generation by Fuel  
Florida Reliability Coordinating Council

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 landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.

6/ Combined heat and power produces electricity and other useful thermal energy.

7/ Includes 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.

8/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.

Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 84. Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25
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 Solid Waste 3/	0.20	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Wood and Other Biomass 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
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	0.00	0.00	0.15	0.19	0.54
Total	11.77	11.79	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.95	11.99	12.34
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	25.90	28.00	28.86	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79
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 Solid Waste 3/	1.01	1.13	1.48	1.52	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53
Wood and Other Biomass 4/	0.57	0.86	2.65	2.68	3.62	3.80	3.90	4.29	4.21	4.36	4.16	3.96	4.23
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	0.01	0.01	0.01	0.01	0.01	0.55	0.67	1.93
Total	27.47	29.99	33.00	36.99	37.94	38.12	38.22	38.61	38.53	38.68	39.02	38.95	40.47
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.27	0.29	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
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 Solid Waste 3/	0.01	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/	0.03	0.03	0.06	0.06	0.07	0.07	0.07	0.08	0.07	0.08	0.07	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	0.00	0.00	0.01	0.01	0.02
Total	0.31	0.34	0.38	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.45
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid Waste	0.10	0.13	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/	1.90	1.95	1.99	2.13	2.27	2.36	2.43	2.49	2.57	2.68	2.79	2.90	3.02
Total	2.01	2.08	2.11	2.26	2.39	2.49	2.55	2.62	2.70	2.80	2.91	3.03	3.15
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.59	0.61	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Wood and Other Biomass 4/	8.94	9.36	9.49	10.05	10.59	10.96	11.21	11.45	11.77	12.18	12.60	13.05	13.52
Total	9.53	9.97	10.19	10.75	11.28	11.65	11.91	12.15	12.47	12.87	13.30	13.75	14.22

Table 84. Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid Waste	0.01	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/	0.12	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19
Total	0.14	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.21
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
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
Solar Photovoltaic	0.01	0.02	0.03	0.04	0.05	0.07	0.10	0.12	0.15	0.19	0.20	0.20	0.20
Total	0.53	0.53	0.54	0.55	0.56	0.58	0.61	0.63	0.67	0.70	0.71	0.71	0.72
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	1.07	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
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
Solar Photovoltaic	0.02	0.03	0.04	0.05	0.07	0.10	0.14	0.17	0.22	0.27	0.28	0.28	0.29
Total	1.09	1.40	1.41	1.42	1.44	1.47	1.50	1.54	1.58	1.64	1.65	1.65	1.66
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	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
Solar Photovoltaic	0.00	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 84. Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	N/A
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	N/A
Municipal Solid Waste 3/	0.22	0.22	0.22	0.22	0.22	0.22	0.25	0.25	0.25	0.25	0.25	0.25	0.7%
Wood and Other Biomass 4/	0.33	0.33	0.33	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.51	0.56	2.4%
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	N/A
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	N/A
Wind	0.74	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	30.3%
Total	12.54	12.67	12.67	12.82	12.82	12.82	12.85	12.85	12.85	12.85	12.88	12.94	0.4%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	32.79	0.7%
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	N/A
Municipal Solid Waste 3/	1.53	1.53	1.53	1.53	1.53	1.53	1.74	1.74	1.74	1.74	1.74	1.74	1.9%
Wood and Other Biomass 4/	4.27	4.62	4.64	5.04	5.07	5.09	4.89	4.76	4.70	4.56	4.41	4.17	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	N/A
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	N/A
Wind	2.65	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	N/A
Total	41.24	42.02	42.04	42.44	42.48	42.49	42.51	42.38	42.32	42.18	42.03	41.79	1.5%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.7%
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	N/A
Municipal Solid 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	1.7%
Wood and Other Biomass 4/	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	3.5%
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	N/A
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	N/A
Wind	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Total	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46	1.4%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid Waste	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%
Wood and Other Biomass 4/	3.13	3.22	3.30	3.39	3.48	3.55	3.63	3.70	3.77	3.85	3.93	4.02	3.2%
Total	3.26	3.35	3.43	3.52	3.61	3.68	3.75	3.82	3.90	3.98	4.06	4.14	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.6%
Wood and Other Biomass 4/	13.94	14.28	14.60	14.96	15.31	15.58	15.86	16.14	16.42	16.74	17.04	17.37	2.7%
Total	14.64	14.98	15.30	15.66	16.01	16.28	16.56	16.83	17.12	17.43	17.74	18.07	2.6%

Table 84. Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
Energy Consumption (quadrillion Btu)														
Municipal Solid 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	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.24	2.4%
Total	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	2.2%	
Other End-Use Generators 7/														
Generating Capacity (gigawatts)														
Conventional Hydropower 8/	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	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	N/A
Solar Photovoltaic	0.21	0.21	0.22	0.22	0.24	0.26	0.29	0.34	0.39	0.44	0.50	0.56	0.56	15.4%
Total	0.72	0.72	0.73	0.73	0.75	0.77	0.80	0.85	0.90	0.95	1.01	1.07	1.07	3.1%
Electricity Generation (billion kilowatthours)														
Conventional Hydropower 8/	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	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	N/A
Solar Photovoltaic	0.30	0.30	0.31	0.31	0.34	0.37	0.42	0.48	0.55	0.63	0.71	0.80	0.80	15.4%
Total	1.66	1.67	1.67	1.68	1.70	1.73	1.78	1.85	1.92	2.00	2.08	2.17	2.17	1.9%
Energy Consumption (quadrillion Btu)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 84. Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 85. Renewable Energy Generation by Fuel  
Southwest Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47
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 Solid Waste 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
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	0.02	0.02
Wind	0.19	0.20	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Total	2.67	2.68	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.87	2.87	2.87	2.87
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	5.07	5.92	4.42	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02
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
Municipal Solid Waste 3/	0.08	0.16	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Wood and Other Biomass 4/	0.20	0.26	0.49	0.40	0.46	0.39	0.40	0.54	0.40	0.39	0.37	0.39	0.40
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	0.03	0.03	0.04	0.04
Wind	0.06	0.68	1.08	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
Total	5.42	7.02	6.06	6.73	6.79	6.72	6.73	6.88	6.74	6.74	6.72	6.74	6.77
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.05	0.06	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 Solid Waste 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
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	0.00	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	0.05	0.07	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.37	0.38	0.39	0.41	0.44	0.46	0.47	0.48	0.50	0.52	0.54	0.56	0.59
Total	0.39	0.40	0.41	0.44	0.46	0.48	0.50	0.51	0.52	0.54	0.56	0.59	0.61
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	0.02	0.02	0.02
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

Table 85. Renewable Energy Generation by Fuel  
Southwest Power Pool

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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
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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
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
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.04
Total	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.13	0.14	0.14	0.14	0.14
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 85. Renewable Energy Generation by Fuel  
Southwest Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	N/A
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	N/A
Municipal Solid 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	2.5%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	N/A
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	N/A
Solar Photovoltaic 5/	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	N/A
Wind	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	2.8%
Total	2.88	2.88	2.88	2.89	2.89	2.89	2.93	2.94	2.94	2.94	2.94	2.95	0.4%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	-0.7%
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	N/A
Municipal Solid 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	-2.7%
Wood and Other Biomass 4/	0.40	0.54	0.69	0.74	0.75	0.75	0.72	0.76	0.96	0.93	0.93	0.71	4.4%
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	N/A
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	N/A
Wind	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	2.6%
Total	6.79	6.93	7.09	7.15	7.16	7.17	7.15	7.19	7.40	7.38	7.38	7.16	0.1%
Energy Consumption (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	-0.7%
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	N/A
Municipal Solid Waste 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	N/A
Wood and Other Biomass 4/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.5%
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	N/A
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	N/A
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	2.6%
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.08	0.3%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.61	0.62	0.64	0.66	0.68	0.69	0.70	0.72	0.73	0.75	0.76	0.78	3.2%
Total	0.63	0.65	0.66	0.68	0.70	0.71	0.73	0.74	0.76	0.77	0.79	0.80	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	0.6%
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	2.7%
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	2.6%

Table 85. Renewable Energy Generation by Fuel  
Southwest Power Pool

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.0%
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	2.4%
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	2.2%
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	15.4%
Total	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.18	0.20	0.21	3.1%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.4%
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	1.9%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 85. Renewable Energy Generation by Fuel  
Southwest Power Pool

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 86. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	35.69	35.69	35.69	35.69	35.69	35.69	35.69	35.69	35.69	35.67	35.67	35.67	35.67
Geothermal 2/	0.27	0.27	0.27	0.27	0.27	0.27	0.32	0.45	0.57	0.71	0.85	0.96	1.07
Municipal Solid Waste 3/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.12	0.12	0.12	0.12	0.12	0.12
Wood and Other Biomass 4/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	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	0.01	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	0.03	0.03	0.03	0.04
Wind	0.24	0.36	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.59	0.61	0.66	0.73
Total	36.46	36.59	36.70	36.70	36.71	36.71	36.76	36.91	37.04	37.31	37.47	37.64	37.82
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	96.38	128.63	134.00	152.18	152.18	152.18	152.18	152.18	152.18	152.06	152.00	152.00	152.00
Geothermal 2/	1.35	1.38	1.97	1.97	1.97	1.97	2.26	3.34	4.33	5.40	6.62	7.55	8.46
Municipal Solid Waste 3/	0.36	0.45	0.72	0.72	0.72	0.72	0.72	0.90	0.90	0.90	0.90	0.90	0.90
Wood and Other Biomass 4/	0.60	0.55	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.92	0.96	1.00	1.00
Solar Thermal	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.07	0.08	0.09
Wind	0.36	1.12	1.50	1.60	1.60	1.60	1.60	1.60	1.60	2.02	2.11	2.30	2.54
Total	99.06	132.12	138.99	157.28	157.29	157.29	157.59	158.86	159.86	161.37	162.67	163.85	165.01
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.99	1.32	1.38	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
Geothermal 2/	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.09	0.12	0.15	0.20	0.23	0.26
Municipal Solid Waste 3/	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/	0.02	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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
Total	1.05	1.39	1.46	1.65	1.65	1.65	1.66	1.69	1.73	1.77	1.81	1.84	1.88
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.30	0.31	0.32	0.34	0.36	0.38	0.39	0.40	0.41	0.43	0.45	0.47	0.48
Total	0.32	0.33	0.34	0.36	0.38	0.40	0.41	0.42	0.43	0.45	0.47	0.49	0.50
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	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
Wood and Other Biomass 4/	0.47	0.49	0.49	0.52	0.55	0.57	0.58	0.60	0.61	0.63	0.66	0.68	0.70
Total	0.50	0.52	0.53	0.56	0.59	0.61	0.62	0.63	0.65	0.67	0.69	0.72	0.74

Table 86. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.01	0.01
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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
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
Solar Photovoltaic	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Total	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Total	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 86. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	0.0%
Geothermal 2/	1.14	1.22	1.27	1.39	1.44	1.54	1.61	1.66	1.71	1.71	1.78	1.91	8.8%
Municipal Solid Waste 3/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.0%
Wood and Other Biomass 4/	0.20	0.20	0.20	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.29	2.5%
Solar Thermal	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	15.9%
Solar Photovoltaic 5/	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	44.3%
Wind	0.73	0.78	0.78	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.93	1.28	5.7%
Total	37.91	38.04	38.10	38.34	38.40	38.50	38.58	38.64	38.69	38.70	38.83	39.39	0.3%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	152.00	152.00	152.00	152.00	152.00	152.00	152.00	152.00	152.00	152.00	152.00	152.00	0.7%
Geothermal 2/	9.12	9.80	10.23	11.17	11.59	12.43	12.99	13.42	13.85	13.89	14.44	15.51	11.1%
Municipal Solid Waste 3/	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	3.1%
Wood and Other Biomass 4/	1.00	1.00	1.00	1.15	1.19	1.24	1.24	1.24	1.24	1.24	1.24	1.51	4.5%
Solar Thermal	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	N/A
Solar Photovoltaic 5/	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	N/A
Wind	2.54	2.71	2.71	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.25	4.56	6.3%
Total	165.69	166.55	167.00	168.43	168.89	169.79	170.37	170.82	171.26	171.31	172.10	174.78	1.2%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	0.7%
Geothermal 2/	0.28	0.30	0.32	0.35	0.36	0.39	0.41	0.43	0.44	0.44	0.46	0.50	11.5%
Municipal Solid 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	4.6%
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	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	N/A
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	N/A
Wind	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	6.3%
Total	1.90	1.92	1.94	1.97	1.99	2.02	2.04	2.05	2.07	2.07	2.09	2.15	1.9%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.50	0.52	0.53	0.54	0.56	0.57	0.58	0.59	0.60	0.62	0.63	0.64	3.2%
Total	0.52	0.54	0.55	0.56	0.58	0.59	0.60	0.61	0.62	0.64	0.65	0.66	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	0.6%
Wood and Other Biomass 4/	0.73	0.74	0.76	0.78	0.80	0.81	0.83	0.84	0.85	0.87	0.89	0.90	2.7%
Total	0.76	0.78	0.80	0.81	0.83	0.85	0.86	0.88	0.89	0.91	0.92	0.94	2.6%



Table 86. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / Northwest Power Pool Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Energy Consumption</b> (quadrillion Btu)													
Municipal Solid 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	0.0%
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	2.4%
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	2.2%
<b>Other End-Use Generators 7/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	15.4%
Total	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.14	0.14	0.15	0.16	0.17	3.1%
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	15.4%
Total	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	1.9%
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 86. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / Northwest Power Pool Area

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 landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.

6/ Combined heat and power produces electricity and other useful thermal energy.

7/ Includes 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.

8/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.

Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 87. Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38
Geothermal 2/	0.34	0.34	0.35	0.35	0.42	0.44	0.46	0.48	0.50	0.53	0.55	0.57	0.62
Municipal Solid Waste 3/	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/	0.00	0.00	0.00	0.01	0.01	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05
Solar Thermal	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.11	0.11	0.11
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06
Wind	0.37	0.37	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.97
Total	6.12	6.13	6.66	6.67	6.82	6.87	6.89	6.92	6.97	7.00	7.05	7.08	7.22
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	14.22	12.75	13.14	14.93	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91
Geothermal 2/	2.53	2.46	2.88	2.90	3.28	3.53	3.71	3.89	4.06	4.24	4.42	4.59	4.96
Municipal Solid Waste 3/	0.11	0.19	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Wood and Other Biomass 4/	0.20	0.26	0.29	0.30	0.32	0.40	0.44	0.44	0.56	0.60	0.60	0.60	0.60
Solar Thermal	0.00	0.00	0.00	0.00	0.20	0.26	0.26	0.27	0.27	0.27	0.33	0.36	0.36
Solar Photovoltaic 5/	0.00	0.00	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.13	0.15	0.16
Wind	0.14	0.31	2.47	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	3.24
Total	17.21	15.97	19.04	21.33	21.92	22.34	22.57	22.76	23.07	23.31	23.56	23.77	24.46
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.15	0.13	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Geothermal 2/	0.06	0.06	0.06	0.06	0.08	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13
Municipal Solid Waste 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
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	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.21	0.20	0.23	0.25	0.26	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.33
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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
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
Electricity Generation (billion kilowatthours)													
Municipal Solid 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
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 87. Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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
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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 87. Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	0.0%
Geothermal 2/	0.64	0.66	0.66	0.66	0.66	0.71	0.76	0.76	0.76	0.76	0.81	0.86	4.1%
Municipal Solid Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Wood and Other Biomass 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	N/A
Solar Thermal	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	N/A
Solar Photovoltaic 5/	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	11.4%
Wind	0.99	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.10	1.22	5.3%
Total	7.27	7.31	7.32	7.32	7.32	7.38	7.43	7.43	7.44	7.44	7.58	7.75	1.0%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	0.7%
Geothermal 2/	5.14	5.33	5.37	5.37	5.37	5.77	6.16	6.18	6.20	6.20	6.60	6.99	4.6%
Municipal Solid Waste 3/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.9%
Wood and Other Biomass 4/	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	3.7%
Solar Thermal	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.40	0.40	N/A
Solar Photovoltaic 5/	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.24	N/A
Wind	3.31	3.38	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.71	4.16	11.9%
Total	24.71	24.98	25.05	25.06	25.07	25.48	25.88	25.92	25.95	25.96	26.68	27.53	2.4%
Energy Consumption (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	0.7%
Geothermal 2/	0.13	0.14	0.14	0.14	0.14	0.15	0.16	0.17	0.17	0.17	0.18	0.19	5.1%
Municipal Solid Waste 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	6.4%
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	4.4%
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	N/A
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	N/A
Wind	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	11.9%
Total	0.34	0.34	0.34	0.34	0.34	0.36	0.37	0.37	0.37	0.37	0.38	0.40	3.1%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	N/A
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	N/A
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	N/A
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	N/A
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	N/A
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	N/A

Table 87. Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	N/A
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	N/A
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	N/A
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	N/A

Table 87. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

- 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 landfill gas.
  - 4/ Includes projections for energy crops after 2010.
  - 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
  - 6/ Combined heat and power produces electricity and other useful thermal energy.
  - 7/ Includes 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.
  - 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 88. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / California

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	10.37	10.39	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41
Geothermal 2/	2.27	2.27	2.27	2.18	2.21	2.44	2.50	2.58	2.68	2.78	2.87	2.96	3.05
Municipal Solid Waste 3/	0.34	0.35	0.38	0.40	0.41	0.43	0.54	0.57	0.58	0.58	0.58	0.58	0.58
Wood and Other Biomass 4/	0.42	0.42	0.42	0.43	0.44	0.46	0.49	0.51	0.51	0.51	0.51	0.51	0.51
Solar Thermal	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.07
Wind	1.59	1.70	1.89	1.91	1.95	2.04	2.13	2.23	2.23	2.23	2.30	2.41	2.52
Total	15.33	15.47	15.72	15.69	15.77	16.16	16.45	16.69	16.80	16.90	17.08	17.28	17.48
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	24.44	29.19	35.74	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61
Geothermal 2/	9.65	9.45	8.89	8.71	8.90	10.36	11.18	11.84	12.74	13.53	14.27	14.98	15.69
Municipal Solid Waste 3/	1.89	2.05	2.67	2.83	2.92	3.06	3.93	4.15	4.21	4.21	4.22	4.22	4.22
Wood and Other Biomass 4/	2.23	2.65	2.45	2.50	2.56	2.69	2.84	2.99	3.03	3.03	3.03	3.03	3.03
Solar Thermal	0.54	0.54	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.55	0.55	0.56	0.56
Solar Photovoltaic 5/	0.00	0.00	0.04	0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.16
Wind	3.50	4.14	4.54	4.77	4.88	5.17	5.50	5.83	5.91	5.91	6.19	6.57	6.95
Total	42.25	48.03	54.85	59.98	60.45	62.49	64.68	66.08	67.17	67.97	69.01	70.11	71.23
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.25	0.30	0.37	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Geothermal 2/	0.19	0.19	0.19	0.19	0.20	0.25	0.27	0.29	0.32	0.35	0.37	0.39	0.41
Municipal Solid Waste 3/	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass 4/	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
Solar Thermal	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	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07
Total	0.55	0.61	0.69	0.75	0.76	0.81	0.85	0.88	0.91	0.94	0.96	0.99	1.02
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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/	0.14	0.14	0.15	0.16	0.17	0.18	0.18	0.18	0.19	0.20	0.21	0.22	0.22
Total	0.15	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	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
Wood and Other Biomass 4/	0.64	0.67	0.68	0.72	0.75	0.78	0.80	0.82	0.84	0.87	0.90	0.93	0.96
Total	0.68	0.71	0.73	0.77	0.80	0.83	0.85	0.87	0.89	0.92	0.95	0.98	1.01



Table 88. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / California

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.01	0.01
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
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Total	0.08	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.00	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
Solar Photovoltaic	0.00	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 88. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / California

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	0.0%
Geothermal 2/	3.13	3.22	3.30	3.38	3.44	3.56	3.69	3.82	3.87	3.92	3.98	4.06	2.6%
Municipal Solid Waste 3/	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	2.2%
Wood and Other Biomass 4/	0.54	0.59	0.59	0.59	0.59	0.63	0.66	0.70	0.70	0.70	0.75	0.84	3.0%
Solar Thermal	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.4%
Solar Photovoltaic 5/	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	11.4%
Wind	2.68	3.02	3.14	3.14	3.16	3.39	4.91	5.82	5.82	5.82	5.82	5.82	5.5%
Total	17.76	18.25	18.45	18.53	18.63	19.03	20.71	21.80	21.86	21.92	22.03	22.22	1.6%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	40.61	1.4%
Geothermal 2/	16.34	17.09	17.75	18.35	18.88	19.87	20.90	21.99	22.44	22.89	23.39	24.05	4.1%
Municipal Solid Waste 3/	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.23	3.2%
Wood and Other Biomass 4/	3.15	3.40	3.50	3.57	3.57	3.74	3.93	4.18	4.27	4.32	4.53	4.99	2.8%
Solar Thermal	0.57	0.57	0.58	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.6%
Solar Photovoltaic 5/	0.18	0.20	0.21	0.23	0.24	0.26	0.27	0.29	0.30	0.32	0.34	0.35	23.0%
Wind	7.54	8.76	9.17	9.17	9.25	10.09	15.66	19.00	19.00	19.00	19.00	19.00	6.8%
Total	72.61	74.85	76.04	76.73	77.36	79.38	86.19	90.89	91.46	91.98	92.71	93.85	3.0%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	1.4%
Geothermal 2/	0.43	0.45	0.47	0.49	0.51	0.54	0.57	0.60	0.62	0.63	0.65	0.67	5.5%
Municipal Solid Waste 3/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	3.2%
Wood and Other Biomass 4/	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	2.3%
Solar Thermal	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%
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	23.0%
Wind	0.08	0.09	0.09	0.09	0.10	0.10	0.16	0.20	0.20	0.20	0.20	0.20	6.8%
Total	1.04	1.08	1.11	1.13	1.15	1.19	1.28	1.35	1.36	1.38	1.39	1.42	3.7%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.29	0.30	3.2%
Total	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid 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	0.6%
Wood and Other Biomass 4/	0.99	1.02	1.04	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.24	2.7%
Total	1.04	1.07	1.09	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.29	2.6%

Table 88. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / California

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025	
<b>Energy Consumption</b> (quadrillion Btu)														
Municipal Solid 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/	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.4%
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	2.2%
<b>Other End-Use Generators 7/</b>														
<b>Generating Capacity</b> (gigawatts)														
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	15.4%
Total	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	3.1%
<b>Electricity Generation</b> (billion kilowatthours)														
Conventional Hydropower 8/	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%
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	N/A
Solar Photovoltaic	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.06	15.4%
Total	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	1.9%
<b>Energy Consumption</b> (quadrillion Btu)														
Conventional Hydropower 8/	0.00	0.00	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.0%

Table 88. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council / California

- 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 landfill gas.
- 4/ Includes projections for energy crops after 2010.
- 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
- 6/ Combined heat and power produces electricity and other useful thermal energy.
- 7/ Includes 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.
- 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 89. Renewable Energy Generation by Fuel  
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	78.13	78.29	78.43	78.50	78.57	78.71	78.71	78.71	78.71	78.69	78.68	78.68	78.68
Geothermal 2/	2.88	2.89	2.90	2.81	2.90	3.15	3.28	3.51	3.76	4.01	4.27	4.49	4.73
Municipal Solid Waste 3/	3.38	3.49	3.61	3.65	3.66	3.69	3.83	3.89	3.89	3.92	3.92	3.92	3.92
Wood and Other Biomass 4/	1.79	1.83	1.85	1.87	1.89	1.99	2.04	2.09	2.14	2.20	2.24	2.24	2.24
Solar Thermal	0.33	0.33	0.33	0.34	0.42	0.42	0.42	0.43	0.43	0.43	0.46	0.46	0.47
Solar Photovoltaic 5/	0.02	0.02	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.15	0.17	0.18	0.20
Wind	4.15	4.83	6.50	6.62	6.68	6.91	7.40	7.57	7.68	8.01	8.46	8.69	9.38
Total	90.67	91.69	93.66	93.83	94.19	94.96	95.78	96.31	96.74	97.42	98.20	98.66	99.62
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	213.75	255.78	269.60	303.01	303.37	304.09	304.37	304.39	304.41	304.32	304.28	304.32	304.35
Geothermal 2/	13.74	13.36	13.82	13.66	14.23	15.95	17.23	19.14	21.21	23.25	25.38	27.21	29.21
Municipal Solid Waste 3/	17.04	17.15	23.89	24.28	24.43	24.61	25.68	26.13	26.22	26.42	26.43	26.45	26.46
Wood and Other Biomass 4/	7.04	7.16	13.67	13.82	17.06	17.93	18.97	19.56	20.24	21.45	21.69	21.91	22.10
Solar Thermal	0.54	0.54	0.52	0.52	0.72	0.80	0.81	0.82	0.83	0.84	0.90	0.93	0.94
Solar Photovoltaic 5/	0.00	0.00	0.08	0.11	0.15	0.19	0.23	0.28	0.32	0.36	0.40	0.44	0.49
Wind	6.74	10.51	17.38	19.08	19.40	20.07	21.56	22.46	22.94	24.07	25.78	26.59	29.05
Total	258.85	304.49	338.95	374.49	379.36	383.63	388.85	392.78	396.16	400.69	404.87	407.84	412.59
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	2.20	2.63	2.77	3.12	3.12	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal 2/	0.29	0.30	0.30	0.30	0.32	0.37	0.41	0.47	0.54	0.61	0.67	0.73	0.80
Municipal Solid Waste 3/	0.26	0.27	0.35	0.35	0.36	0.36	0.37	0.38	0.38	0.38	0.38	0.38	0.38
Wood and Other Biomass 4/	0.17	0.18	0.24	0.24	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.33
Solar Thermal	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	0.07	0.11	0.18	0.20	0.20	0.21	0.22	0.23	0.24	0.25	0.27	0.27	0.30
Total	3.00	3.50	3.84	4.21	4.28	4.36	4.45	4.54	4.62	4.71	4.80	4.87	4.96
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid Waste	0.21	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/	3.80	3.91	3.97	4.26	4.54	4.73	4.86	4.98	5.15	5.36	5.57	5.81	6.05
Total	4.01	4.16	4.23	4.51	4.79	4.98	5.11	5.23	5.40	5.61	5.83	6.06	6.30
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	1.78	1.84	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
Wood and Other Biomass 4/	26.91	28.16	28.56	30.23	31.85	32.96	33.72	34.45	35.40	36.63	37.90	39.25	40.69
Total	28.68	30.00	30.66	32.33	33.95	35.06	35.82	36.55	37.50	38.73	40.00	41.36	42.79

Table 89. Renewable Energy Generation by Fuel  
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Consumption (quadrillion Btu)													
Municipal Solid Waste	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
Wood and Other Biomass 4/	0.37	0.43	0.43	0.45	0.47	0.49	0.50	0.51	0.52	0.53	0.55	0.57	0.58
Total	0.41	0.47	0.48	0.50	0.52	0.53	0.54	0.55	0.56	0.58	0.60	0.61	0.63
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	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
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
Solar Photovoltaic	0.03	0.04	0.06	0.08	0.10	0.14	0.19	0.24	0.31	0.39	0.39	0.40	0.41
Total	1.05	1.06	1.08	1.10	1.12	1.16	1.21	1.27	1.33	1.41	1.42	1.42	1.43
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	3.21	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
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
Solar Photovoltaic	0.06	0.09	0.12	0.16	0.22	0.30	0.41	0.52	0.66	0.82	0.84	0.86	0.87
Total	3.27	4.20	4.23	4.27	4.33	4.41	4.52	4.63	4.77	4.93	4.95	4.97	4.98
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	0.03	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
Solar Photovoltaic	0.00	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Table 89. Renewable Energy Generation by Fuel  
United States

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	0.0%
Geothermal 2/	4.91	5.11	5.24	5.43	5.54	5.82	6.06	6.24	6.34	6.39	6.57	6.84	3.8%
Municipal Solid Waste 3/	3.92	3.92	3.92	3.92	3.92	3.92	3.95	3.95	3.95	3.95	3.95	3.95	0.5%
Wood and Other Biomass 4/	2.27	2.31	2.31	2.55	2.69	2.85	3.04	3.22	3.25	3.28	3.40	3.74	3.2%
Solar Thermal	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.51	0.51	0.52	1.9%
Solar Photovoltaic 5/	0.22	0.24	0.25	0.27	0.29	0.31	0.32	0.34	0.36	0.38	0.39	0.41	13.5%
Wind	9.81	10.48	10.78	11.00	11.33	11.84	13.39	14.42	14.57	14.79	15.52	15.99	5.3%
Total	100.28	101.22	101.67	102.33	102.94	103.91	105.93	107.35	107.65	107.97	109.02	110.13	0.8%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	304.39	304.42	304.45	304.48	304.51	304.54	304.57	304.60	304.64	304.67	304.71	304.74	0.8%
Geothermal 2/	30.69	32.31	33.44	34.99	35.94	38.16	40.14	41.70	42.59	43.08	44.53	46.66	5.6%
Municipal Solid Waste 3/	26.48	26.49	26.50	26.51	26.52	26.53	26.75	26.76	26.77	26.78	26.79	26.81	2.0%
Wood and Other Biomass 4/	22.33	22.99	23.41	24.04	24.35	25.06	25.56	26.09	26.58	26.63	26.78	27.08	6.0%
Solar Thermal	0.96	0.97	0.98	1.00	1.01	1.02	1.04	1.05	1.06	1.08	1.09	1.11	3.2%
Solar Photovoltaic 5/	0.53	0.57	0.62	0.66	0.71	0.75	0.79	0.84	0.88	0.93	0.97	1.02	28.8%
Wind	30.56	32.95	34.04	34.85	36.03	37.88	43.54	47.34	47.87	48.69	51.40	53.16	7.3%
Total	415.94	420.72	423.44	426.53	429.06	433.94	442.40	448.37	450.40	451.86	456.28	460.57	1.8%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	0.8%
Geothermal 2/	0.84	0.90	0.93	0.98	1.01	1.09	1.15	1.20	1.23	1.24	1.29	1.36	6.9%
Municipal Solid Waste 3/	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	1.5%
Wood and Other Biomass 4/	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.38	3.2%
Solar Thermal	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%
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	28.8%
Wind	0.31	0.34	0.35	0.36	0.37	0.39	0.45	0.49	0.49	0.50	0.53	0.55	7.3%
Total	5.02	5.11	5.16	5.23	5.28	5.37	5.51	5.60	5.63	5.66	5.73	5.83	2.2%
Combined Heat and Power 6/													
Generating Capacity (gigawatts)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	6.27	6.44	6.61	6.79	6.97	7.11	7.26	7.40	7.55	7.71	7.86	8.03	3.2%
Total	6.52	6.69	6.86	7.04	7.22	7.36	7.51	7.65	7.80	7.96	8.11	8.29	3.0%
Electricity Generation (billion kilowatthours)													
Municipal Solid Waste	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	0.6%
Wood and Other Biomass 4/	41.95	42.96	43.93	45.01	46.05	46.87	47.72	48.54	49.41	50.35	51.25	52.26	2.7%
Total	44.05	45.06	46.03	47.11	48.15	48.97	49.82	50.64	51.51	52.45	53.35	54.36	2.6%

Table 89. Renewable Energy Generation by Fuel  
United States

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Energy Consumption (quadrillion Btu)													
Municipal Solid 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	0.0%
Wood and Other Biomass 4/	0.60	0.61	0.63	0.64	0.65	0.66	0.67	0.68	0.70	0.71	0.72	0.73	2.4%
Total	0.65	0.66	0.67	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.78	2.2%
Other End-Use Generators 7/													
Generating Capacity (gigawatts)													
Conventional Hydropower 8/	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	0.0%
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	N/A
Solar Photovoltaic	0.42	0.42	0.43	0.44	0.48	0.51	0.58	0.67	0.78	0.88	1.00	1.13	15.4%
Total	1.44	1.45	1.45	1.46	1.50	1.54	1.61	1.70	1.80	1.91	2.02	2.15	3.1%
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 8/	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	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	N/A
Solar Photovoltaic	0.89	0.91	0.92	0.94	1.02	1.10	1.26	1.45	1.67	1.90	2.14	2.42	15.4%
Total	5.00	5.02	5.03	5.05	5.13	5.21	5.37	5.56	5.78	6.01	6.25	6.53	1.9%
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 8/	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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	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%



Table 89. 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 landfill gas.
- 4/ Includes projections for energy crops after 2010.
- 5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
- 6/ Combined heat and power produces electricity and other useful thermal energy.
- 7/ Includes 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.
- 8/ Represents own-use industrial hydroelectric power.
- Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators to be consistent with capacity estimates for electric utility generators.
- Sources: 2001 and 2002 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization  
(Million Barrels per Day)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>PAD District I</b>													
Base Capacity	N/A	N/A	N/A	N/A	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Capacity Additions	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Total Capacity	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7
Utilization	87.0	89.0	90.0	92.0	93.3	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
<b>PAD District II</b>													
Base Capacity	N/A	N/A	N/A	N/A	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Capacity Additions	N/A	N/A	N/A	N/A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total Capacity	3.6	3.6	3.5	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Utilization	94.0	90.0	91.0	93.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
<b>PAD District III</b>													
Base Capacity	N/A	N/A	N/A	N/A	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
Capacity Additions	N/A	N/A	N/A	N/A	0.0	0.2	0.5	0.7	1.0	1.3	1.6	1.9	2.2
Total Capacity	7.6	7.8	7.8	7.8	7.9	8.1	8.4	8.6	8.9	9.2	9.5	9.8	10.1
Utilization	95.0	92.0	93.0	95.0	94.3	94.3	94.3	94.3	93.0	91.8	92.6	92.7	93.3
<b>PAD District IV</b>													
Base Capacity	N/A	N/A	N/A	N/A	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Capacity Additions	N/A	N/A	N/A	N/A	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
Total Capacity	0.6	0.6	0.6	0.6	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.1	1.1
Utilization	91.0	92.0	93.0	95.0	94.3	94.3	94.3	91.9	94.3	94.3	91.9	94.3	94.3
<b>PAD District V</b>													
Base Capacity	N/A	N/A	N/A	N/A	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Capacity Additions	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Capacity	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1
Utilization	89.0	90.0	91.0	93.0	81.2	84.8	86.9	87.5	88.8	91.4	93.1	93.0	93.4
<b>United States</b>													
Base Capacity	N/A	N/A	N/A	N/A	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
Capacity Additions	N/A	N/A	N/A	N/A	0.5	0.8	1.1	1.4	1.7	2.0	2.4	2.8	3.2
Total Capacity	16.6	16.8	16.8	16.8	17.1	17.4	17.7	18.0	18.3	18.7	19.0	19.4	19.8
Utilization	93.0	91.0	91.0	94.0	92.6	93.2	93.6	93.6	93.3	93.1	93.7	93.8	94.1

Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization  
(Million Barrels per Day)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
<b>PAD District I</b>													
Base Capacity	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.3%
Capacity Additions	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A
Total Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	0.3%
Utilization	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	0.2%
<b>PAD District II</b>													
Base Capacity	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	-0.1%
Capacity Additions	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.6	0.8	0.9	1.0	1.0	N/A
Total Capacity	3.8	3.8	3.9	3.9	3.9	3.9	3.9	4.1	4.3	4.4	4.5	4.5	-4.2%
Utilization	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	0.3%
<b>PAD District III</b>													
Base Capacity	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	0.1%
Capacity Additions	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	N/A
Total Capacity	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	5.4%
Utilization	93.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	0.1%
<b>PAD District IV</b>													
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	0.0%
Capacity Additions	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	N/A
Total Capacity	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	N/A
Utilization	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.1	94.3	94.3	94.3	0.1%
<b>PAD District V</b>													
Base Capacity	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-0.1%
Capacity Additions	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	N/A
Total Capacity	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.5	3.5	N/A
Utilization	93.4	93.5	93.5	93.5	93.5	93.7	94.1	94.2	94.1	93.5	93.7	94.3	0.2%
<b>United States</b>													
Base Capacity	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	0.0%
Capacity Additions	3.6	3.7	3.8	4.0	4.0	4.1	4.2	4.4	4.7	5.0	5.0	5.1	N/A
Total Capacity	20.2	20.4	20.5	20.6	20.7	20.7	20.8	21.1	21.3	21.6	21.7	21.8	1.1%
Utilization	94.1	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.7	94.8	94.8	0.2%

Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization  
(Million Barrels per Day)

PAD = Petroleum Administration for Defense.

N/A = Not applicable.

Note: Base capacity is for the beginning of the year. Capacity additions are cumulative additions after December 31, 2004.

Source: 2002: Energy Information Administration (EIA), Petroleum Supply Annual 2002, DOE/EIA-0340(2002)/1 (Washington, DC, June 2003). 2001: EIA, Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002). Projections: AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 91. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.50	1.42	1.57	1.44	1.43	1.47	1.51	1.52	1.51	1.50	1.52	1.51	1.50
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
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	0.27	0.24	0.24	0.24	0.24	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25
Wholesale Price	0.77	0.73	0.89	0.75	0.75	0.78	0.82	0.83	0.83	0.84	0.86	0.86	0.85
<b>Motor Gasoline</b>													
End-User Price	1.55	1.48	1.66	1.51	1.50	1.50	1.50	1.51	1.51	1.51	1.52	1.51	1.51
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 1/	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
Distribution Costs	0.17	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wholesale Price	0.88	0.83	1.02	0.87	0.87	0.87	0.87	0.89	0.89	0.89	0.90	0.89	0.90
<b>Jet Fuel</b>													
End-User Price	0.88	0.85	0.95	0.90	0.88	0.83	0.82	0.82	0.82	0.82	0.83	0.83	0.83
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	0.00	-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	0.81	0.79	0.89	0.84	0.82	0.77	0.76	0.77	0.77	0.77	0.78	0.78	0.78
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.24	1.12	1.24	1.13	1.09	1.08	1.07	1.08	1.08	1.06	1.07	1.07	1.09
Distribution Costs	0.48	0.40	0.40	0.45	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Wholesale Price	0.77	0.73	0.84	0.68	0.70	0.68	0.67	0.68	0.68	0.67	0.67	0.67	0.69
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 91. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.51	1.51	1.51	1.51	1.50	1.50	1.49	1.49	1.49	1.50	1.49	1.49	0.2%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
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	N/A
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	0.1%
Wholesale Price	0.86	0.87	0.88	0.88	0.88	0.88	0.88	0.89	0.89	0.90	0.90	0.91	1.0%
<b>Motor Gasoline</b>													
End-User Price	1.51	1.51	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.53	0.1%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 1/	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%
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	0.0%
Wholesale Price	0.91	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.95	0.96	0.96	0.97	0.7%
<b>Jet Fuel</b>													
End-User Price	0.83	0.83	0.83	0.84	0.85	0.85	0.85	0.85	0.86	0.86	0.86	0.87	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.78	0.78	0.79	0.79	0.80	0.81	0.81	0.81	0.82	0.82	0.82	0.83	0.3%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.09	1.10	1.11	1.11	1.13	1.14	1.14	1.15	1.15	1.16	1.16	1.16	0.2%
Distribution Costs	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	N/A
Wholesale Price	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.2%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 91. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
New England

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 92. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.45	1.36	1.51	1.37	1.38	1.42	1.46	1.46	1.45	1.45	1.46	1.46	1.45
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
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	0.19	0.18	0.18	0.18	0.18	0.19	0.20	0.19	0.19	0.19	0.19	0.19	0.19
Wholesale Price	0.79	0.72	0.87	0.74	0.75	0.78	0.82	0.83	0.83	0.83	0.85	0.86	0.85
<b>Motor Gasoline</b>													
End-User Price	1.46	1.39	1.56	1.42	1.45	1.45	1.46	1.47	1.46	1.46	1.47	1.46	1.46
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 1/	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	0.11	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Wholesale Price	0.87	0.79	0.96	0.83	0.87	0.87	0.88	0.89	0.89	0.90	0.91	0.90	0.91
<b>Jet Fuel</b>													
End-User Price	0.84	0.80	0.90	0.85	0.82	0.77	0.76	0.77	0.77	0.77	0.78	0.79	0.79
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	0.01	-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	0.77	0.74	0.84	0.79	0.76	0.71	0.70	0.71	0.71	0.71	0.73	0.73	0.74
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.30	1.18	1.30	1.19	1.15	1.14	1.13	1.13	1.13	1.12	1.12	1.13	1.14
Distribution Costs	0.54	0.47	0.47	0.52	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Wholesale Price	0.76	0.71	0.83	0.66	0.68	0.67	0.66	0.66	0.66	0.65	0.65	0.66	0.67
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59



Table 92. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.45	1.45	1.45	1.45	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.44	0.2%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
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	N/A
Distribution Costs	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.1%
Wholesale Price	0.86	0.87	0.87	0.88	0.88	0.88	0.88	0.88	0.89	0.90	0.90	0.91	1.0%
<b>Motor Gasoline</b>													
End-User Price	1.47	1.47	1.47	1.47	1.47	1.48	1.48	1.48	1.48	1.48	1.48	1.48	0.3%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 1/	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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.0%
Wholesale Price	0.91	0.92	0.93	0.94	0.94	0.95	0.95	0.95	0.96	0.96	0.97	0.97	0.9%
<b>Jet Fuel</b>													
End-User Price	0.79	0.79	0.80	0.80	0.82	0.82	0.82	0.83	0.83	0.83	0.84	0.85	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.74	0.74	0.75	0.75	0.77	0.77	0.77	0.78	0.79	0.79	0.79	0.80	0.4%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.15	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.21	1.21	1.21	1.22	0.1%
Distribution Costs	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	N/A
Wholesale Price	0.68	0.68	0.69	0.70	0.71	0.72	0.73	0.73	0.74	0.74	0.74	0.75	0.2%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 92. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
Middle Atlantic

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 93. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
East North Central

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.43	1.31	1.45	1.32	1.30	1.36	1.39	1.39	1.37	1.40	1.41	1.41	1.39
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
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	0.12	0.14	0.14	0.14	0.14	0.15	0.16	0.15	0.15	0.15	0.15	0.15	0.15
Wholesale Price	0.86	0.73	0.87	0.75	0.73	0.78	0.81	0.82	0.81	0.84	0.86	0.87	0.86
<b>Motor Gasoline</b>													
End-User Price	1.54	1.39	1.56	1.42	1.41	1.42	1.43	1.43	1.43	1.44	1.44	1.44	1.44
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 1/	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
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	0.93	0.78	0.96	0.82	0.81	0.83	0.84	0.85	0.85	0.86	0.87	0.87	0.87
<b>Jet Fuel</b>													
End-User Price	0.84	0.78	0.88	0.83	0.79	0.74	0.73	0.73	0.73	0.73	0.74	0.74	0.74
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	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
Distribution Costs	-0.01	-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	0.80	0.75	0.85	0.80	0.76	0.71	0.70	0.70	0.71	0.71	0.72	0.72	0.72
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.21	1.06	1.17	1.07	1.01	1.00	0.99	1.00	0.99	0.99	0.99	1.00	1.00
Distribution Costs	0.38	0.34	0.34	0.39	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Wholesale Price	0.83	0.72	0.83	0.68	0.67	0.66	0.66	0.66	0.66	0.65	0.66	0.66	0.67
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 93. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.40	1.40	1.40	1.39	1.38	1.37	1.36	1.36	1.36	1.36	1.36	1.36	0.2%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
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	N/A
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	0.2%
Wholesale Price	0.87	0.88	0.88	0.88	0.87	0.87	0.86	0.87	0.87	0.88	0.89	0.89	0.9%
<b>Motor Gasoline</b>													
End-User Price	1.44	1.44	1.45	1.44	1.44	1.44	1.44	1.45	1.45	1.46	1.46	1.47	0.3%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 1/	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%
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	0.0%
Wholesale Price	0.88	0.89	0.90	0.90	0.90	0.90	0.91	0.92	0.93	0.94	0.95	0.95	0.9%
<b>Jet Fuel</b>													
End-User Price	0.74	0.75	0.76	0.77	0.78	0.78	0.79	0.78	0.78	0.78	0.79	0.80	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
State Taxes	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
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	N/A
Wholesale Price	0.72	0.73	0.74	0.75	0.76	0.77	0.77	0.77	0.77	0.77	0.77	0.79	0.2%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.01	1.02	1.03	1.05	1.06	1.07	1.08	1.08	1.08	1.08	1.08	1.09	0.1%
Distribution Costs	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	N/A
Wholesale Price	0.67	0.68	0.69	0.71	0.72	0.73	0.74	0.74	0.74	0.74	0.74	0.75	0.2%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 93. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
East North Central

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 94. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.41	1.29	1.43	1.30	1.32	1.36	1.39	1.40	1.39	1.39	1.40	1.40	1.38
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
State Taxes	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
Distribution Costs	0.11	0.11	0.11	0.11	0.11	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12
Wholesale Price	0.86	0.74	0.88	0.76	0.78	0.81	0.84	0.86	0.86	0.86	0.88	0.89	0.88
<b>Motor Gasoline</b>													
End-User Price	1.48	1.35	1.52	1.38	1.40	1.42	1.43	1.43	1.43	1.44	1.44	1.44	1.44
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 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
Distribution Costs	0.13	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wholesale Price	0.89	0.75	0.92	0.79	0.81	0.83	0.84	0.85	0.85	0.86	0.87	0.87	0.88
<b>Jet Fuel</b>													
End-User Price	0.87	0.83	0.93	0.88	0.85	0.80	0.79	0.79	0.79	0.79	0.80	0.80	0.80
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	-0.07	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Wholesale Price	0.87	0.79	0.90	0.84	0.82	0.77	0.76	0.76	0.76	0.76	0.77	0.77	0.77
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.10	1.01	1.12	1.02	0.98	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97
Distribution Costs	0.26	0.27	0.27	0.32	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Wholesale Price	0.84	0.74	0.85	0.70	0.71	0.70	0.69	0.69	0.69	0.69	0.69	0.70	0.70
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 94. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.39	1.39	1.39	1.39	1.39	1.38	1.37	1.37	1.38	1.38	1.38	1.38	0.3%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
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	0.3%
Wholesale Price	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.93	0.93	0.94	1.0%
<b>Motor Gasoline</b>													
End-User Price	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.45	1.45	1.45	1.46	0.3%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 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	0.0%
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	0.0%
Wholesale Price	0.88	0.89	0.89	0.90	0.90	0.91	0.91	0.92	0.92	0.93	0.94	0.94	1.0%
<b>Jet Fuel</b>													
End-User Price	0.79	0.79	0.81	0.82	0.83	0.83	0.83	0.83	0.82	0.83	0.83	0.84	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
Distribution Costs	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A
Wholesale Price	0.77	0.77	0.78	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.2%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	0.97	0.98	1.00	1.01	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.05	0.2%
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	N/A
Wholesale Price	0.70	0.71	0.73	0.74	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.78	0.2%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 94. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
West North Central

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 95. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.36	1.25	1.38	1.26	1.30	1.34	1.37	1.38	1.37	1.36	1.37	1.37	1.36
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
State Taxes	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
Distribution Costs	0.15	0.14	0.14	0.14	0.14	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15
Wholesale Price	0.77	0.67	0.81	0.69	0.74	0.77	0.80	0.81	0.81	0.81	0.83	0.84	0.83
<b>Motor Gasoline</b>													
End-User Price	1.38	1.32	1.48	1.35	1.36	1.37	1.38	1.38	1.38	1.38	1.39	1.38	1.38
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
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
Distribution Costs	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Wholesale Price	0.84	0.78	0.94	0.81	0.82	0.84	0.85	0.86	0.86	0.87	0.87	0.87	0.88
<b>Jet Fuel</b>													
End-User Price	0.87	0.82	0.92	0.86	0.83	0.79	0.78	0.78	0.78	0.79	0.80	0.80	0.80
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
Wholesale Price	0.81	0.76	0.86	0.81	0.78	0.73	0.72	0.73	0.73	0.74	0.75	0.75	0.76
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.26	1.15	1.27	1.16	1.12	1.10	1.10	1.09	1.09	1.09	1.10	1.11	1.11
Distribution Costs	0.49	0.45	0.45	0.50	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Wholesale Price	0.77	0.70	0.82	0.66	0.67	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 95. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.36	1.37	1.36	1.36	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	0.4%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
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	0.2%
Wholesale Price	0.84	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.87	0.88	0.88	0.89	1.2%
<b>Motor Gasoline</b>													
End-User Price	1.38	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.40	0.2%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
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	0.0%
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	0.0%
Wholesale Price	0.88	0.89	0.90	0.90	0.91	0.91	0.92	0.92	0.93	0.93	0.93	0.94	0.8%
<b>Jet Fuel</b>													
End-User Price	0.80	0.81	0.81	0.82	0.84	0.84	0.84	0.85	0.85	0.85	0.86	0.87	0.3%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.75	0.76	0.77	0.78	0.80	0.80	0.80	0.81	0.81	0.82	0.82	0.83	0.4%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.11	1.12	1.13	1.14	1.16	1.17	1.18	1.18	1.19	1.19	1.19	1.20	0.2%
Distribution Costs	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	N/A
Wholesale Price	0.66	0.68	0.68	0.70	0.72	0.72	0.73	0.74	0.74	0.74	0.74	0.75	0.3%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 95. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
South Atlantic

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 96. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.33	1.25	1.38	1.26	1.29	1.33	1.36	1.36	1.35	1.35	1.36	1.36	1.34
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
State Taxes	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
Distribution Costs	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
Wholesale Price	0.77	0.68	0.82	0.70	0.74	0.77	0.80	0.81	0.81	0.81	0.83	0.84	0.83
<b>Motor Gasoline</b>													
End-User Price	1.41	1.35	1.52	1.38	1.39	1.40	1.41	1.42	1.42	1.42	1.42	1.42	1.42
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
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
Distribution Costs	0.16	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	0.81	0.74	0.91	0.78	0.79	0.81	0.82	0.83	0.83	0.83	0.84	0.84	0.85
<b>Jet Fuel</b>													
End-User Price	0.83	0.80	0.89	0.84	0.80	0.75	0.74	0.75	0.75	0.75	0.77	0.77	0.78
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	0.00	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	0.76	0.73	0.83	0.78	0.73	0.69	0.68	0.68	0.69	0.69	0.71	0.72	0.72
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	0.98	1.00	1.11	1.01	0.97	0.95	0.95	0.95	0.95	0.95	0.96	0.96	0.97
Distribution Costs	0.21	0.30	0.30	0.35	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Wholesale Price	0.77	0.70	0.80	0.66	0.66	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 96. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.35	1.35	1.35	1.35	1.35	1.34	1.33	1.34	1.34	1.34	1.34	1.34	0.3%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
State Taxes	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
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	0.2%
Wholesale Price	0.84	0.85	0.85	0.86	0.86	0.86	0.85	0.86	0.87	0.88	0.88	0.89	1.1%
<b>Motor Gasoline</b>													
End-User Price	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.43	1.43	1.43	1.43	1.43	0.2%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
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	0.0%
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	0.0%
Wholesale Price	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.9%
<b>Jet Fuel</b>													
End-User Price	0.77	0.78	0.79	0.80	0.82	0.82	0.82	0.83	0.84	0.84	0.84	0.85	0.3%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.72	0.73	0.74	0.75	0.77	0.77	0.77	0.78	0.79	0.79	0.80	0.81	0.5%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	0.97	0.98	0.99	1.00	1.02	1.02	1.03	1.04	1.04	1.04	1.04	1.05	0.2%
Distribution Costs	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	N/A
Wholesale Price	0.66	0.67	0.68	0.70	0.71	0.72	0.73	0.74	0.74	0.74	0.74	0.75	0.3%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 96. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
East South Central

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 97. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.35	1.25	1.38	1.26	1.27	1.32	1.35	1.35	1.34	1.34	1.35	1.35	1.33
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
State Taxes	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
Distribution Costs	0.14	0.13	0.13	0.13	0.13	0.14	0.15	0.14	0.14	0.14	0.14	0.14	0.14
Wholesale Price	0.77	0.69	0.82	0.71	0.72	0.76	0.79	0.80	0.80	0.80	0.82	0.82	0.82
<b>Motor Gasoline</b>													
End-User Price	1.39	1.33	1.50	1.36	1.39	1.40	1.41	1.42	1.42	1.41	1.42	1.41	1.42
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 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
Distribution Costs	0.14	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	0.79	0.70	0.87	0.74	0.77	0.79	0.80	0.81	0.81	0.81	0.82	0.82	0.83
<b>Jet Fuel</b>													
End-User Price	0.79	0.75	0.84	0.79	0.77	0.73	0.71	0.72	0.72	0.73	0.74	0.74	0.75
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	0.74	0.70	0.80	0.75	0.73	0.69	0.68	0.68	0.68	0.69	0.71	0.71	0.71
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.00	0.89	0.98	0.90	0.87	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.86
Distribution Costs	0.26	0.21	0.21	0.26	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Wholesale Price	0.74	0.68	0.77	0.64	0.66	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.65
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 97. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.34	1.34	1.34	1.34	1.33	1.33	1.32	1.32	1.32	1.33	1.32	1.33	0.3%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
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	0.3%
Wholesale Price	0.83	0.83	0.84	0.84	0.85	0.85	0.84	0.85	0.86	0.87	0.87	0.87	1.0%
<b>Motor Gasoline</b>													
End-User Price	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.43	1.43	1.43	1.43	0.3%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 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	0.0%
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	0.0%
Wholesale Price	0.83	0.84	0.84	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.89	1.0%
<b>Jet Fuel</b>													
End-User Price	0.74	0.75	0.76	0.77	0.78	0.79	0.79	0.80	0.80	0.80	0.81	0.82	0.4%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.71	0.72	0.73	0.74	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.80	0.5%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	0.86	0.87	0.88	0.90	0.91	0.92	0.93	0.93	0.94	0.94	0.94	0.95	0.3%
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	N/A
Wholesale Price	0.65	0.66	0.67	0.69	0.70	0.71	0.72	0.72	0.73	0.73	0.73	0.74	0.4%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%



Table 97. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
West South Central

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 98. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.47	1.35	1.50	1.37	1.45	1.49	1.52	1.52	1.51	1.51	1.52	1.52	1.51
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
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	0.14	0.14	0.14	0.14	0.14	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15
Wholesale Price	0.87	0.75	0.90	0.77	0.86	0.89	0.92	0.93	0.93	0.93	0.95	0.96	0.95
<b>Motor Gasoline</b>													
End-User Price	1.55	1.44	1.62	1.47	1.56	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 1/	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Distribution Costs	0.15	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	0.92	0.79	0.97	0.83	0.92	0.94	0.94	0.94	0.95	0.96	0.96	0.96	0.97
<b>Jet Fuel</b>													
End-User Price	0.91	0.88	0.99	0.93	0.93	0.88	0.86	0.86	0.86	0.85	0.86	0.85	0.85
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
Wholesale Price	0.87	0.82	0.93	0.88	0.87	0.83	0.80	0.81	0.81	0.80	0.81	0.80	0.80
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.09	1.06	1.18	1.07	1.05	1.04	1.05	1.05	1.05	1.06	1.07	1.07	1.07
Distribution Costs	0.23	0.28	0.28	0.33	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Wholesale Price	0.86	0.78	0.89	0.74	0.77	0.76	0.77	0.77	0.77	0.78	0.79	0.79	0.79
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 98. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.51	1.51	1.51	1.51	1.51	1.51	1.50	1.50	1.50	1.50	1.50	1.50	0.5%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
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	N/A
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	0.2%
Wholesale Price	0.96	0.97	0.97	0.98	0.98	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.3%
<b>Motor Gasoline</b>													
End-User Price	1.57	1.57	1.58	1.57	1.57	1.57	1.58	1.58	1.59	1.60	1.62	1.63	0.5%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 1/	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	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
Wholesale Price	0.97	0.97	0.99	0.99	0.99	0.99	1.00	1.01	1.03	1.03	1.06	1.07	1.3%
<b>Jet Fuel</b>													
End-User Price	0.84	0.84	0.85	0.86	0.87	0.87	0.87	0.86	0.87	0.87	0.89	0.90	0.1%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.80	0.79	0.80	0.81	0.82	0.83	0.83	0.82	0.84	0.84	0.85	0.87	0.2%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.07	1.07	1.09	1.10	1.12	1.13	1.13	1.13	1.14	1.15	1.17	1.18	0.5%
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	N/A
Wholesale Price	0.79	0.79	0.81	0.82	0.84	0.85	0.85	0.85	0.86	0.86	0.88	0.90	0.6%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 98. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
Mountain

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 99. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
Pacific

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.53	1.42	1.57	1.43	1.43	1.43	1.45	1.45	1.45	1.48	1.52	1.51	1.51
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
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	0.21	0.20	0.20	0.20	0.20	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21
Wholesale Price	0.89	0.79	0.95	0.81	0.81	0.81	0.83	0.83	0.85	0.89	0.93	0.93	0.94
<b>Motor Gasoline</b>													
End-User Price	1.65	1.47	1.65	1.50	1.58	1.59	1.59	1.60	1.66	1.65	1.64	1.64	1.63
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
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
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
Wholesale Price	1.07	0.89	1.07	0.93	1.01	1.03	1.03	1.04	1.10	1.10	1.10	1.10	1.10
<b>Jet Fuel</b>													
End-User Price	0.87	0.84	0.95	0.89	0.81	0.82	0.82	0.82	0.83	0.82	0.82	0.82	0.82
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	0.82	0.78	0.88	0.83	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.76
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.32	1.17	1.29	1.18	1.14	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17
Distribution Costs	0.50	0.41	0.41	0.46	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Wholesale Price	0.83	0.75	0.88	0.71	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.76
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59

Table 99. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.51	1.51	1.50	1.50	1.50	1.49	1.48	1.48	1.47	1.48	1.47	1.46	0.1%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
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	N/A
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	0.1%
Wholesale Price	0.94	0.94	0.94	0.94	0.95	0.94	0.94	0.95	0.94	0.95	0.95	0.95	0.8%
<b>Motor Gasoline</b>													
End-User Price	1.63	1.62	1.63	1.63	1.62	1.62	1.62	1.62	1.64	1.64	1.66	1.67	0.6%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
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	0.0%
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	0.0%
Wholesale Price	1.09	1.10	1.10	1.11	1.10	1.11	1.11	1.12	1.14	1.14	1.17	1.18	1.2%
<b>Jet Fuel</b>													
End-User Price	0.82	0.82	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.0%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	N/A
Wholesale Price	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.79	0.1%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.17	1.18	1.19	1.19	1.19	1.21	1.22	1.22	1.22	1.23	1.23	1.24	0.3%
Distribution Costs	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	N/A
Wholesale Price	0.76	0.77	0.77	0.78	0.78	0.80	0.81	0.81	0.81	0.81	0.82	0.82	0.4%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 99. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
Pacific

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 100. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Diesel</b>													
End-User Price	1.41	1.31	1.44	1.32	1.33	1.37	1.41	1.41	1.40	1.40	1.42	1.42	1.40
Federal Taxes	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19
State Taxes	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
Distribution Costs	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
Wholesale Price	0.82	0.72	0.86	0.74	0.76	0.79	0.82	0.83	0.83	0.84	0.86	0.87	0.86
<b>Motor Gasoline</b>													
End-User Price	1.49	1.38	1.55	1.41	1.44	1.45	1.46	1.46	1.47	1.47	1.47	1.47	1.47
Federal Taxes	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14
State Taxes 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
Distribution Costs	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.15	0.15	0.15
Wholesale Price	0.90	0.79	0.96	0.82	0.85	0.87	0.88	0.89	0.90	0.90	0.91	0.91	0.91
<b>Jet Fuel</b>													
End-User Price	0.85	0.81	0.91	0.85	0.81	0.78	0.77	0.77	0.78	0.78	0.79	0.79	0.79
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
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	-0.01	-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	0.79	0.75	0.85	0.80	0.76	0.73	0.72	0.73	0.73	0.73	0.74	0.74	0.74
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.26	1.14	1.26	1.15	1.11	1.10	1.09	1.09	1.09	1.08	1.09	1.09	1.10
Distribution Costs	0.49	0.42	0.43	0.48	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Wholesale Price	0.77	0.72	0.84	0.68	0.69	0.68	0.67	0.67	0.67	0.67	0.67	0.68	0.68
World Oil Price	0.53	0.56	0.65	0.57	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59



Table 100. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Diesel</b>													
End-User Price	1.41	1.41	1.41	1.41	1.40	1.40	1.39	1.39	1.39	1.39	1.39	1.39	0.3%
Federal Taxes	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	-2.8%
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
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	0.2%
Wholesale Price	0.87	0.88	0.88	0.89	0.89	0.89	0.88	0.89	0.90	0.91	0.91	0.91	1.0%
<b>Motor Gasoline</b>													
End-User Price	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.48	1.48	1.49	1.49	0.3%
Federal Taxes	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	-2.8%
State Taxes 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	0.0%
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	0.0%
Wholesale Price	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.96	0.97	0.98	0.99	1.0%
<b>Jet Fuel</b>													
End-User Price	0.79	0.79	0.80	0.80	0.81	0.82	0.82	0.82	0.82	0.83	0.83	0.84	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-2.8%
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	N/A
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	0.0%
Wholesale Price	0.74	0.75	0.75	0.76	0.77	0.78	0.78	0.78	0.79	0.79	0.80	0.81	0.3%
<b>Residential Distillate Fuel/ Heating Oil</b>													
End-User Price	1.11	1.12	1.13	1.13	1.15	1.16	1.16	1.17	1.17	1.18	1.18	1.18	0.2%
Distribution Costs	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.0%
Wholesale Price	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.75	0.76	0.76	0.76	0.77	0.3%
World Oil Price	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.6%

Table 100. Components of Selected Petroleum Product Prices  
(2002 Dollars per Gallon)  
United States

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 2002 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." 2002 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2002 jet fuel taxes: EIA, Office of Oil and Gas. 2001 and 2002 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Production 1/ (million barrels per day)													
Lower 48 Total	4.78	4.64	4.71	4.85	4.97	5.06	5.18	5.18	5.12	5.01	4.90	4.79	4.72
Lower 48 Onshore													
Northeast	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Gulf Coast	0.61	0.60	0.57	0.57	0.52	0.47	0.42	0.38	0.35	0.32	0.29	0.27	0.25
Midcontinent	0.33	0.33	0.31	0.31	0.31	0.29	0.29	0.28	0.27	0.27	0.26	0.26	0.25
Southwest	1.06	1.05	0.99	1.00	1.00	0.99	0.98	0.97	0.96	0.95	0.93	0.92	0.91
Rocky Mountain	0.38	0.38	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38
West Coast	0.67	0.66	0.62	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.61	0.60
Lower 48 Offshore													
Gulf	1.51	1.41	1.67	1.79	2.02	2.18	2.36	2.42	2.42	2.37	2.31	2.25	2.23
Shallow	0.57	0.60	0.65	0.61	0.65	0.68	0.70	0.71	0.72	0.73	0.70	0.68	0.65
Deep	0.94	0.81	1.02	1.18	1.37	1.50	1.66	1.71	1.69	1.64	1.61	1.57	1.58
Pacific	0.13	0.12	0.11	0.11	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
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 (2002 dollars per barrel)													
Lower 48 Average	23.16	24.54	27.29	24.36	22.75	22.89	23.13	23.28	23.47	23.61	24.11	23.98	24.18
Lower 48 Onshore													
Northeast	23.41	24.81	27.54	24.58	22.38	22.21	22.36	22.55	22.71	22.77	23.04	23.32	23.55
Gulf Coast	23.98	25.42	28.22	25.18	22.49	22.57	22.77	22.92	23.11	23.27	23.51	23.65	23.83
Midcontinent	24.36	25.82	28.66	25.58	22.50	22.54	22.80	22.93	23.08	23.26	23.50	23.59	23.76
Southwest	23.74	25.15	27.92	24.92	22.40	22.49	22.73	22.88	23.03	23.22	23.49	23.55	23.72
Rocky Mountain	23.15	24.53	27.25	24.32	22.67	22.76	22.94	23.16	23.41	23.21	26.71	23.79	24.01
West Coast	20.34	21.55	23.94	21.37	21.88	22.22	22.44	22.46	22.58	22.76	22.96	23.02	23.26
Lower 48 Offshore													
Gulf	23.59	24.99	27.76	24.78	23.39	23.47	23.68	23.83	24.04	24.21	24.45	24.60	24.78
Pacific	20.91	22.15	24.61	21.97	20.35	20.67	20.87	20.89	20.99	21.17	21.35	21.41	21.63
Atlantic	23.59	24.99	27.76	24.78	22.38	22.21	22.36	22.55	22.71	22.77	23.04	23.32	23.55

Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Production 1/ (million barrels per day)													
Lower 48 Total	4.61	4.59	4.51	4.40	4.44	4.37	4.23	4.17	4.10	4.18	4.21	4.11	-0.5%
Lower 48 Onshore													
Northeast	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	-1.7%
Gulf Coast	0.23	0.21	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.11	-7.2%
Midcontinent	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	-2.2%
Southwest	0.90	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.80	0.79	0.77	0.76	-1.4%
Rocky Mountain	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.2%
West Coast	0.60	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52	0.52	-1.1%
Lower 48 Offshore													
Gulf	2.16	2.18	2.14	2.07	2.14	2.11	2.01	1.97	1.94	2.05	2.11	2.04	1.6%
Shallow	0.63	0.61	0.60	0.59	0.58	0.66	0.66	0.64	0.62	0.61	0.59	0.55	-0.4%
Deep	1.53	1.57	1.54	1.47	1.56	1.45	1.35	1.33	1.32	1.44	1.52	1.49	2.7%
Pacific	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	-7.1%
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	N/A
Wellhead Prices (2002 dollars per barrel)													
Lower 48 Average	24.41	24.56	24.78	24.97	25.43	25.39	25.82	25.78	26.28	26.54	26.50	26.72	0.4%
Lower 48 Onshore													
Northeast	23.81	24.08	24.37	24.53	24.75	24.96	25.16	25.37	25.67	25.92	26.13	26.34	0.3%
Gulf Coast	24.05	24.19	24.38	24.59	24.77	24.95	25.13	25.31	25.57	25.83	26.03	26.26	0.1%
Midcontinent	23.93	24.08	24.28	24.46	24.65	24.86	25.03	25.23	25.49	25.74	25.97	26.21	0.1%
Southwest	23.90	24.06	24.27	24.47	24.65	24.84	25.03	25.22	25.46	25.70	25.93	26.16	0.2%
Rocky Mountain	24.65	24.70	24.85	24.89	27.84	25.22	28.23	25.87	28.75	29.01	26.25	26.47	0.3%
West Coast	23.43	23.55	23.91	24.09	24.45	24.72	24.89	25.06	25.23	25.41	25.66	25.81	0.8%
Lower 48 Offshore													
Gulf	25.01	25.16	25.35	25.58	25.76	25.95	26.13	26.32	26.60	26.86	27.07	27.32	0.4%
Pacific	21.79	21.90	22.23	22.40	22.74	22.99	23.15	23.30	23.46	23.63	23.86	24.01	0.3%
Atlantic	23.81	24.08	24.37	24.53	24.75	24.96	25.16	25.37	25.67	25.92	26.13	26.34	0.2%

Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

1/ Includes lease condensate.

N/A = Not applicable.

Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration (EIA), DOE/EIA-MO63(2001) (Washington, DC, March 2002). Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2004 National Energy Modeling System.

Sources: 2001: Energy Information Administration (EIA), Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002); EIA, Petroleum Marketing Annual 2002, [http://www.eia.doe.gov/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/pma\\_historical.html](http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html) (August 2003); and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2002: EIA, Petroleum Supply Annual 2002, DOE/EIA-0340(2002)/1 (Washington, DC, June 2003) and EIA, OIAF. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 102. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Dry Production (trillion cubic feet) 1/													
Lower 48 Total	19.27	18.62	19.06	18.97	19.03	19.10	19.38	19.63	19.66	19.90	20.19	20.50	20.68
Lower 48 Onshore													
Northeast	0.95	0.99	0.91	0.89	0.89	0.91	0.96	1.01	1.01	1.05	1.08	1.10	1.12
Gulf Coast	5.05	5.02	4.76	4.87	4.86	4.80	4.75	4.74	4.70	4.65	4.67	4.76	4.79
Midcontinent	2.50	2.49	2.32	2.26	2.30	2.38	2.45	2.52	2.51	2.51	2.55	2.62	2.66
Southwest	1.66	1.62	1.71	1.79	1.72	1.62	1.57	1.55	1.51	1.48	1.47	1.49	1.49
Rocky Mountain	3.42	3.33	3.86	3.86	3.98	4.14	4.29	4.49	4.57	4.57	4.79	5.00	5.14
West Coast	0.32	0.30	0.25	0.25	0.25	0.25	0.24	0.24	0.23	0.22	0.22	0.22	0.22
Lower 48 Offshore													
Gulf	5.32	4.81	5.19	5.02	5.00	4.97	5.08	5.07	5.10	5.40	5.39	5.29	5.24
Shallow	3.47	3.02	3.27	3.03	2.87	3.09	2.84	3.01	2.96	2.93	2.80	2.67	2.56
Deep	1.85	1.79	1.92	1.99	2.13	1.88	2.24	2.06	2.14	2.47	2.59	2.61	2.68
Pacific	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01
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 (2002 dollars per thousand cubic feet)													
Lower 48 Average	4.14	2.95	4.90	3.88	3.54	3.48	3.53	3.64	3.47	3.40	3.56	3.75	3.93
Lower 48 Onshore													
Northeast	4.95	3.53	6.02	4.40	4.00	3.72	3.72	3.90	3.82	3.89	4.05	4.27	4.35
Gulf Coast	4.45	3.16	5.30	3.79	3.55	3.51	3.56	3.62	3.61	3.60	3.68	3.88	4.03
Midcontinent	4.11	2.92	5.38	4.04	3.51	3.39	3.44	3.55	3.53	3.55	3.65	3.82	3.99
Southwest	4.20	2.99	4.69	3.74	3.93	3.81	3.71	3.72	3.71	3.66	3.71	3.84	4.01
Rocky Mountain	3.76	2.67	4.33	3.38	3.26	3.23	3.22	3.28	3.09	3.12	3.26	3.32	3.52
West Coast	7.19	5.10	5.59	3.60	3.43	3.74	4.02	4.19	4.03	3.81	3.84	3.90	4.04
Lower 48 Offshore													
Gulf	3.75	2.66	4.56	4.25	3.55	3.53	3.68	3.93	3.46	3.20	3.54	3.87	4.09
Pacific	5.82	4.13	6.33	4.70	4.44	4.36	4.33	4.37	4.19	4.00	4.06	4.13	4.25
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

Table 102. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Dry Production (trillion cubic feet) 1/													
Lower 48 Total	20.80	20.98	20.93	21.34	21.35	21.26	21.50	21.25	21.07	21.01	21.19	21.29	0.6%
Lower 48 Onshore													
Northeast	1.15	1.20	1.22	1.25	1.27	1.27	1.29	1.29	1.27	1.24	1.21	1.19	0.8%
Gulf Coast	4.83	4.98	4.93	4.97	4.93	4.83	4.85	4.83	4.70	4.65	4.57	4.49	-0.5%
Midcontinent	2.68	2.73	2.70	2.72	2.71	2.67	2.71	2.71	2.66	2.64	2.60	2.58	0.2%
Southwest	1.49	1.51	1.51	1.53	1.54	1.53	1.53	1.53	1.52	1.52	1.51	1.51	-0.3%
Rocky Mountain	5.29	5.46	5.61	5.73	5.62	5.59	5.83	5.97	6.08	6.08	6.13	6.30	2.8%
West Coast	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	-2.0%
Lower 48 Offshore													
Gulf	5.13	4.86	4.75	4.91	5.06	5.16	5.08	4.71	4.64	4.68	4.96	5.02	0.2%
Shallow	2.45	2.36	2.29	2.36	2.34	2.51	2.54	2.47	2.43	2.39	2.34	2.27	-1.2%
Deep	2.68	2.49	2.45	2.55	2.72	2.65	2.54	2.24	2.21	2.30	2.62	2.75	1.9%
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	-8.3%
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	N/A
Wellhead Prices (2002 dollars per thousand cubic feet)													
Lower 48 Average	4.01	4.19	4.22	4.23	4.17	4.13	4.28	4.45	4.42	4.42	4.42	4.40	1.8%
Lower 48 Onshore													
Northeast	4.40	4.58	4.65	4.69	4.76	4.77	4.80	4.84	4.89	4.95	4.97	5.05	1.6%
Gulf Coast	4.10	4.23	4.30	4.39	4.44	4.41	4.44	4.55	4.55	4.56	4.57	4.60	1.6%
Midcontinent	4.11	4.32	4.33	4.37	4.37	4.25	4.32	4.47	4.49	4.51	4.51	4.56	2.0%
Southwest	4.10	4.21	4.24	4.30	4.32	4.31	4.37	4.48	4.47	4.47	4.47	4.47	1.8%
Rocky Mountain	3.60	3.70	3.82	3.90	3.80	3.63	3.79	4.02	4.11	4.13	4.17	4.05	1.8%
West Coast	4.13	4.28	4.36	4.49	4.20	3.94	4.08	4.36	4.72	4.71	4.81	4.93	-0.2%
Lower 48 Offshore													
Gulf	4.19	4.52	4.44	4.24	4.03	4.14	4.52	4.79	4.51	4.47	4.38	4.41	2.2%
Pacific	4.38	4.47	4.49	4.64	4.35	4.10	4.33	4.58	4.91	4.90	4.23	3.83	-0.3%
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	N/A

Table 102. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

1/ Marketed production (wet) minus extraction losses.

N/A = Not applicable.

Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration, DOE/EIA-MO63(2001) (Washington, DC, March 2002). Totals may not equal sum of components due to independent rounding.

Sources: 2001: Mineral Management Service, and Energy Information Administration (EIA), Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003); EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216(2001) (Washington, DC, November 2002); and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2002: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003) and EIA, OIAF. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Lower 48 Reserves													
Crude Oil (billion barrels) 1/	19.14	19.05	19.23	18.96	18.59	18.61	18.89	18.86	18.66	18.36	18.05	17.72	17.52
Onshore	13.41	13.02	13.38	13.27	13.07	12.92	12.77	12.60	12.43	12.26	12.13	11.96	11.80
Offshore	5.73	6.02	5.85	5.69	5.52	5.68	6.12	6.26	6.23	6.09	5.92	5.76	5.72
Dry Natural Gas (trillion cubic feet)	174.7	180.0	182.5	187.4	191.1	194.1	195.4	197.7	199.9	201.2	202.2	203.1	204.2
Onshore	143.6	148.2	152.5	156.9	160.4	163.2	165.9	168.3	170.0	171.4	172.7	173.6	174.5
Associated-Dissolved 2/	13.4	13.4	13.4	13.4	13.4	13.3	13.2	13.1	13.1	13.0	13.0	13.0	13.0
Non-Associated	130.3	134.9	139.1	143.5	147.0	150.0	152.7	155.2	156.9	158.4	159.7	160.6	161.5
Conventional	54.6	53.6	54.0	53.7	53.1	52.5	52.0	51.7	51.5	51.3	51.1	51.0	51.1
Unconventional	75.7	81.3	85.1	89.7	94.0	97.5	100.7	103.5	105.4	107.0	108.5	109.6	110.4
Offshore	31.0	31.8	30.0	30.5	30.7	30.9	29.5	29.4	29.9	29.8	29.5	29.4	29.7
Associated-Dissolved 2/	8.7	8.8	8.7	8.6	8.6	8.9	9.2	9.1	9.0	8.9	8.9	8.8	8.8
Non-Associated	22.4	23.1	21.3	21.9	22.1	22.0	20.3	20.2	20.9	20.8	20.7	20.6	21.0
Lower 48 Reserve Additions													
Crude Oil (billion barrels) 1/	2.23	1.60	1.91	1.50	1.45	1.86	2.17	1.86	1.67	1.52	1.48	1.41	1.52
Onshore	0.57	0.74	1.43	0.96	0.86	0.89	0.86	0.83	0.80	0.78	0.80	0.74	0.75
Offshore	1.66	0.86	0.48	0.53	0.59	0.97	1.31	1.03	0.87	0.74	0.68	0.67	0.78
Dry Natural Gas (trillion cubic feet)	25.7	24.0	21.5	23.9	22.7	22.1	20.6	22.0	21.9	21.2	21.2	21.3	21.8
Onshore	20.1	18.3	18.1	18.3	17.5	16.9	16.9	17.0	16.2	15.9	16.1	16.1	16.3
Associated-Dissolved 2/	0.4	1.6	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3
Non-Associated	19.8	16.7	16.5	16.8	16.1	15.5	15.5	15.6	14.8	14.6	14.7	14.8	14.9
Conventional	5.4	5.3	6.4	6.0	5.6	5.5	5.6	5.7	5.7	5.6	5.7	5.9	6.0
Unconventional	14.4	11.5	10.0	10.8	10.4	10.0	9.9	9.9	9.1	9.0	9.0	8.9	8.9
Offshore	5.6	5.6	3.4	5.6	5.2	5.2	3.7	5.0	5.7	5.3	5.2	5.2	5.6
Associated-Dissolved 2/	2.8	1.1	1.1	1.1	1.2	1.5	1.8	1.7	1.6	1.5	1.4	1.4	1.4
Non-Associated	2.8	4.5	2.3	4.5	4.1	3.7	1.9	3.3	4.1	3.7	3.7	3.8	4.2

Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Lower 48 Reserves													
Crude Oil (billion barrels) 1/	17.20	17.13	16.87	16.55	16.62	16.46	16.20	15.84	15.50	15.51	15.36	14.98	-1.0%
Onshore	11.65	11.51	11.36	11.22	11.10	10.95	10.83	10.69	10.57	10.45	10.30	10.16	-1.1%
Offshore	5.54	5.63	5.50	5.33	5.52	5.51	5.36	5.15	4.93	5.06	5.06	4.82	-1.0%
Dry Natural Gas (trillion cubic feet)	204.0	203.7	203.7	204.3	204.2	203.5	201.0	199.5	197.6	196.5	195.6	193.5	0.3%
Onshore	175.1	175.5	175.7	175.5	175.3	174.6	173.4	172.1	170.6	169.1	167.7	165.8	0.5%
Associated-Dissolved 2/	13.0	13.0	12.9	12.9	13.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	-0.2%
Non-Associated	162.2	162.5	162.7	162.6	162.3	161.7	160.4	159.1	157.7	156.1	154.8	153.0	0.5%
Conventional	51.1	51.2	51.4	51.5	51.6	51.5	51.4	51.3	51.1	50.9	50.5	50.0	-0.3%
Unconventional	111.0	111.3	111.4	111.1	110.8	110.2	109.0	107.8	106.5	105.3	104.3	102.9	1.0%
Offshore	28.8	28.3	28.1	28.8	28.9	28.9	27.6	27.4	27.0	27.5	27.9	27.7	-0.6%
Associated-Dissolved 2/	8.8	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.7	8.8	8.9	8.8	0.0%
Non-Associated	20.1	19.5	19.3	20.0	20.1	20.1	18.9	18.7	18.4	18.7	19.1	18.9	-0.9%
Lower 48 Reserve Additions													
Crude Oil (billion barrels) 1/	1.36	1.61	1.38	1.29	1.69	1.44	1.28	1.16	1.16	1.53	1.39	1.12	-1.5%
Onshore	0.74	0.72	0.71	0.70	0.71	0.66	0.69	0.65	0.66	0.64	0.61	0.61	-0.9%
Offshore	0.63	0.89	0.67	0.59	0.98	0.77	0.59	0.52	0.50	0.89	0.78	0.51	-2.2%
Dry Natural Gas (trillion cubic feet)	20.6	20.8	20.9	21.9	21.3	20.6	18.9	19.8	19.2	19.9	20.3	19.2	-1.0%
Onshore	16.3	16.4	16.4	16.3	16.0	15.4	15.1	15.2	14.9	14.8	14.9	14.4	-1.1%
Associated-Dissolved 2/	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.1	-1.5%
Non-Associated	15.0	15.1	15.1	15.0	14.8	14.2	13.9	14.0	13.7	13.6	13.7	13.2	-1.0%
Conventional	6.1	6.2	6.2	6.2	6.1	6.0	6.0	6.0	5.9	5.8	5.6	5.4	0.1%
Unconventional	8.9	8.9	8.9	8.8	8.6	8.3	8.0	8.1	7.9	7.9	8.1	7.8	-1.7%
Offshore	4.2	4.3	4.5	5.6	5.2	5.1	3.8	4.5	4.3	5.1	5.4	4.8	-0.7%
Associated-Dissolved 2/	1.3	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.4	1.4	1.4	0.9%
Non-Associated	2.9	2.9	3.2	4.3	3.9	3.8	2.5	3.3	3.0	3.8	4.0	3.4	-1.2%

Table 103. 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: 2001: Energy Information Administration (EIA), U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, EIA/DOE-0216(2001) (Washington, DC, November 2001) and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2002: EIA, OIAF. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 104. Natural Gas Imports and Exports

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Volumes (trillion cubic feet)													
Total Net Imports	3.60	3.49	3.51	3.60	3.87	4.28	4.43	4.78	5.04	5.50	5.76	5.90	6.05
Total Imports	3.98	4.01	4.20	4.41	4.68	5.11	5.28	5.65	5.94	6.40	6.66	6.80	6.95
Pipeline Imports from Canada	3.73	3.78	3.71	3.82	3.78	3.74	3.75	3.82	3.91	3.99	3.93	3.91	3.79
Pipeline Imports from Mexico	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.19	0.19	0.19	0.25	0.31
Liquefied Natural Gas Imports	0.24	0.23	0.49	0.59	0.90	1.37	1.47	1.71	1.84	2.22	2.54	2.65	2.85
Total Exports	0.37	0.52	0.69	0.81	0.81	0.83	0.85	0.87	0.90	0.90	0.91	0.91	0.90
Pipeline Exports to Canada	0.17	0.19	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Pipeline Exports to Mexico	0.14	0.26	0.32	0.43	0.43	0.45	0.47	0.49	0.52	0.52	0.53	0.53	0.52
Liquefied Natural Gas Exports	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
Border Prices (2002 dollars per thousand cubic feet)													
Average Import Price	4.49	3.14	5.36	3.92	3.68	3.59	3.65	3.75	3.75	3.78	3.93	4.09	4.30
Pipeline Import Prices													
From Canada	4.49	3.13	5.37	3.89	3.69	3.61	3.67	3.75	3.82	3.89	4.04	4.15	4.40
From Mexico	5.06	2.36	5.37	3.94	3.69	3.62	4.01	4.18	4.02	3.81	3.84	3.90	4.04
LNG Price (including regasification)	4.46	3.43	5.29	4.10	3.66	3.54	3.60	3.75	3.62	3.59	3.77	3.99	4.17

Table 104. Natural Gas Imports and Exports

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Volumes (trillion cubic feet)													
Total Net Imports	6.20	6.24	6.76	6.79	6.64	6.43	6.47	6.69	6.99	7.02	7.12	7.24	3.2%
Total Imports	7.09	7.13	7.67	7.70	7.56	7.35	7.40	7.61	7.90	7.92	8.01	8.11	3.1%
Pipeline Imports from Canada	3.56	3.48	3.29	3.15	3.03	2.82	2.82	2.85	2.79	2.78	2.83	2.88	-1.2%
Pipeline Imports from Mexico	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	26.2%
Liquefied Natural Gas Imports	3.16	3.28	4.01	4.19	4.16	4.17	4.21	4.39	4.75	4.78	4.81	4.87	14.2%
Total Exports	0.89	0.90	0.90	0.91	0.92	0.92	0.92	0.92	0.91	0.90	0.89	0.87	2.3%
Pipeline Exports to Canada	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	2.2%
Pipeline Exports to Mexico	0.51	0.52	0.52	0.53	0.54	0.54	0.54	0.54	0.53	0.52	0.51	0.49	2.8%
Liquefied Natural Gas Exports	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.1%
Border Prices (2002 dollars per thousand cubic feet)													
Average Import Price	4.50	4.59	4.60	4.60	4.58	4.55	4.58	4.74	4.71	4.70	4.67	4.67	1.7%
Pipeline Import Prices													
From Canada	4.70	4.70	4.76	4.77	4.76	4.69	4.61	4.79	4.83	4.79	4.77	4.72	1.8%
From Mexico	4.13	4.28	4.36	4.49	4.20	3.94	4.08	4.36	4.72	4.71	4.81	4.92	3.3%
LNG Price (including regasification)	4.28	4.47	4.47	4.48	4.46	4.45	4.57	4.71	4.64	4.64	4.62	4.63	1.3%

Table 104. Natural Gas Imports and Exports

LNG = Liquefied natural gas.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2004 National Energy Modeling System.

Sources: 2001 and 2002: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003) and EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 105. Natural Gas Consumption by End-Use Sector and Census Division  
(Trillion Cubic Feet per Year)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Residential</b>													
New England	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Middle Atlantic	0.83	0.83	0.89	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.86
East North Central	1.35	1.41	1.47	1.48	1.48	1.49	1.51	1.52	1.53	1.54	1.55	1.55	1.54
West North Central	0.45	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50
South Atlantic	0.42	0.45	0.46	0.48	0.49	0.50	0.51	0.52	0.53	0.55	0.56	0.57	0.57
East South Central	0.20	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25
West South Central	0.36	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39
Mountain	0.34	0.35	0.34	0.38	0.39	0.41	0.42	0.43	0.44	0.46	0.47	0.48	0.49
Pacific	0.65	0.66	0.65	0.70	0.71	0.73	0.74	0.76	0.77	0.79	0.80	0.81	0.82
Total	4.78	4.92	5.07	5.18	5.21	5.29	5.35	5.42	5.47	5.53	5.58	5.62	5.63
<b>Commercial</b>													
New England	0.15	0.14	0.15	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16
Middle Atlantic	0.71	0.67	0.68	0.64	0.66	0.68	0.69	0.69	0.70	0.71	0.72	0.73	0.73
East North Central	0.72	0.70	0.72	0.70	0.71	0.72	0.73	0.73	0.73	0.74	0.73	0.73	0.73
West North Central	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30
South Atlantic	0.32	0.32	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.39	0.40	0.41	0.41
East South Central	0.13	0.13	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19
West South Central	0.29	0.28	0.28	0.28	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.33
Mountain	0.23	0.22	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.27	0.28
Pacific	0.39	0.37	0.36	0.37	0.38	0.39	0.39	0.40	0.41	0.42	0.43	0.44	0.45
Total	3.24	3.12	3.17	3.11	3.17	3.25	3.31	3.35	3.41	3.48	3.52	3.55	3.58
<b>Industrial 1/</b>													
New England	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18
Middle Atlantic	0.37	0.38	0.38	0.40	0.44	0.45	0.46	0.47	0.48	0.48	0.49	0.49	0.50
East North Central	1.16	1.16	1.15	1.21	1.29	1.31	1.32	1.33	1.36	1.38	1.40	1.41	1.43
West North Central	0.40	0.40	0.40	0.42	0.45	0.45	0.46	0.46	0.47	0.48	0.49	0.49	0.49
South Atlantic	0.55	0.53	0.53	0.55	0.57	0.59	0.59	0.60	0.61	0.62	0.63	0.63	0.63
East South Central	0.46	0.45	0.45	0.47	0.49	0.49	0.50	0.51	0.51	0.53	0.54	0.54	0.55
West South Central	3.10	3.01	2.99	3.12	3.15	3.20	3.26	3.29	3.34	3.46	3.57	3.61	3.65
Mountain	0.25	0.25	0.25	0.27	0.28	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33
Pacific	0.91	0.90	0.92	0.96	0.89	0.90	0.91	0.93	0.94	0.95	0.96	0.98	0.99
Total	7.35	7.23	7.21	7.55	7.72	7.83	7.95	8.05	8.19	8.39	8.56	8.65	8.75
<b>Electric Generators 2/</b>													
New England	0.27	0.33	0.18	0.37	0.33	0.36	0.36	0.37	0.38	0.38	0.38	0.39	0.37
Middle Atlantic	0.51	0.57	0.55	0.63	0.60	0.62	0.64	0.67	0.68	0.75	0.77	0.81	0.85
East North Central	0.23	0.30	0.51	0.64	0.63	0.64	0.63	0.70	0.73	0.76	0.83	0.88	0.93
West North Central	0.08	0.08	0.11	0.13	0.12	0.12	0.13	0.14	0.11	0.11	0.12	0.15	0.14
South Atlantic	0.51	0.74	0.44	0.61	0.63	0.66	0.66	0.66	0.60	0.68	0.71	0.72	0.68
East South Central	0.23	0.33	0.37	0.46	0.45	0.44	0.44	0.47	0.39	0.46	0.50	0.54	0.66
West South Central	1.97	2.02	1.52	1.53	1.56	1.59	1.66	1.78	1.88	2.02	2.06	2.12	2.16
Mountain	0.40	0.36	0.65	0.53	0.54	0.57	0.60	0.65	0.66	0.63	0.67	0.70	0.68
Pacific	1.18	0.82	0.63	0.76	0.83	0.87	0.89	0.92	0.92	0.86	0.88	0.88	0.91
Total	5.38	5.55	4.97	5.67	5.70	5.87	6.02	6.36	6.36	6.66	6.92	7.19	7.38

Table 105. Natural Gas Consumption by End-Use Sector and Census Division  
(Trillion Cubic Feet per Year)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Transportation 3/</b>													
New England	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Middle 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 North Central	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
West North Central	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
South Atlantic	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
East South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
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	0.00	0.00	0.01	0.01	0.01
Pacific	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
Total	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07
<b>All Sectors 4/</b>													
New England	0.73	0.78	0.66	0.85	0.82	0.86	0.87	0.89	0.90	0.91	0.92	0.94	0.92
Middle Atlantic	2.42	2.44	2.51	2.55	2.58	2.63	2.66	2.71	2.74	2.82	2.86	2.91	2.95
East North Central	3.47	3.58	3.86	4.03	4.11	4.17	4.19	4.29	4.36	4.43	4.53	4.58	4.64
West North Central	1.23	1.24	1.27	1.32	1.34	1.36	1.37	1.40	1.38	1.40	1.41	1.44	1.44
South Atlantic	1.81	2.04	1.76	1.97	2.04	2.10	2.13	2.16	2.12	2.24	2.30	2.33	2.31
East South Central	1.03	1.12	1.18	1.30	1.31	1.32	1.34	1.38	1.32	1.42	1.47	1.52	1.65
West South Central	5.72	5.68	5.16	5.31	5.37	5.47	5.61	5.76	5.92	6.20	6.35	6.46	6.54
Mountain	1.22	1.18	1.46	1.40	1.44	1.49	1.55	1.63	1.67	1.67	1.73	1.78	1.78
Pacific	3.12	2.76	2.57	2.80	2.82	2.88	2.94	3.01	3.06	3.03	3.08	3.13	3.18
Total	20.76	20.83	20.43	21.53	21.83	22.28	22.67	23.23	23.48	24.12	24.65	25.08	25.40



Table 105. Natural Gas Consumption by End-Use Sector and Census Division  
(Trillion Cubic Feet per Year)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Residential</b>													
New England	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	1.0%
Middle Atlantic	0.86	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.1%
East North Central	1.54	1.54	1.55	1.55	1.56	1.57	1.58	1.57	1.58	1.58	1.59	1.59	0.5%
West North Central	0.50	0.49	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.3%
South Atlantic	0.58	0.59	0.60	0.60	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.67	1.7%
East South Central	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	1.2%
West South Central	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.5%
Mountain	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	2.4%
Pacific	0.83	0.84	0.86	0.87	0.88	0.89	0.91	0.92	0.93	0.94	0.95	0.97	1.7%
Total	5.65	5.68	5.73	5.75	5.80	5.85	5.92	5.93	5.96	6.01	6.06	6.09	0.9%
<b>Commercial</b>													
New England	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	1.2%
Middle Atlantic	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.74	0.4%
East North Central	0.73	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.75	0.76	0.77	0.78	0.5%
West North Central	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.4%
South Atlantic	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.50	0.51	0.52	2.1%
East South Central	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.20	1.9%
West South Central	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	1.0%
Mountain	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.36	0.37	2.3%
Pacific	0.46	0.46	0.47	0.48	0.49	0.51	0.52	0.53	0.54	0.55	0.56	0.57	1.9%
Total	3.60	3.62	3.65	3.69	3.73	3.78	3.83	3.86	3.90	3.94	3.99	4.04	1.1%
<b>Industrial 1/</b>													
New England	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	2.1%
Middle Atlantic	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	2.1%
East North Central	1.44	1.46	1.47	1.50	1.53	1.55	1.57	1.59	1.61	1.64	1.66	1.69	1.7%
West North Central	0.50	0.50	0.51	0.52	0.53	0.54	0.54	0.55	0.56	0.57	0.58	0.59	1.7%
South Atlantic	0.64	0.64	0.65	0.66	0.68	0.69	0.69	0.70	0.71	0.72	0.73	0.74	1.5%
East South Central	0.55	0.55	0.56	0.57	0.58	0.59	0.59	0.60	0.61	0.62	0.63	0.64	1.5%
West South Central	3.66	3.68	3.73	3.78	3.83	3.89	3.93	3.95	4.00	4.07	4.13	4.19	1.4%
Mountain	0.33	0.32	0.33	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.39	0.39	2.0%
Pacific	1.01	1.02	1.03	1.05	1.08	1.10	1.11	1.13	1.15	1.17	1.19	1.21	1.3%
Total	8.81	8.87	8.99	9.14	9.30	9.44	9.57	9.65	9.79	9.96	10.12	10.29	1.5%
<b>Electric Generators 2/</b>													
New England	0.36	0.36	0.37	0.38	0.41	0.44	0.46	0.47	0.47	0.50	0.50	0.50	1.9%
Middle Atlantic	0.86	0.90	0.96	0.98	0.99	1.02	1.03	1.04	1.03	1.03	1.04	1.03	2.6%
East North Central	0.97	1.03	1.10	1.18	1.27	1.36	1.43	1.46	1.47	1.54	1.61	1.71	7.8%
West North Central	0.14	0.15	0.16	0.16	0.17	0.17	0.17	0.17	0.16	0.15	0.16	0.17	3.4%
South Atlantic	0.65	0.61	0.65	0.70	0.74	0.75	0.74	0.67	0.67	0.65	0.65	0.63	-0.7%
East South Central	0.83	0.94	1.06	1.14	1.14	1.11	1.11	1.08	1.04	1.00	1.02	1.00	4.9%
West South Central	2.20	2.19	2.27	2.34	2.37	2.36	2.34	2.30	2.31	2.25	2.28	2.23	0.4%
Mountain	0.65	0.58	0.56	0.50	0.57	0.59	0.56	0.51	0.48	0.45	0.45	0.39	0.4%
Pacific	0.89	0.87	0.80	0.75	0.77	0.78	0.78	0.78	0.76	0.71	0.72	0.73	-0.5%
Total	7.54	7.64	7.92	8.12	8.43	8.59	8.61	8.46	8.39	8.27	8.43	8.39	1.8%

Table 105. Natural Gas Consumption by End-Use Sector and Census Division  
(Trillion Cubic Feet per Year)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Transportation 3/</b>													
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	10.1%
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	8.4%
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	8.4%
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	9.8%
South Atlantic	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	9.3%
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	10.2%
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	9.8%
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	11.8%
Pacific	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	9.1%
Total	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	9.5%
<b>All Sectors 4/</b>													
New England	0.91	0.92	0.93	0.94	0.99	1.03	1.05	1.07	1.08	1.11	1.13	1.14	1.6%
Middle Atlantic	2.96	3.00	3.07	3.10	3.12	3.16	3.18	3.20	3.20	3.22	3.24	3.25	1.2%
East North Central	4.70	4.77	4.86	4.97	5.11	5.22	5.33	5.38	5.42	5.53	5.65	5.79	2.1%
West North Central	1.45	1.46	1.48	1.49	1.51	1.53	1.54	1.54	1.54	1.54	1.56	1.58	1.1%
South Atlantic	2.29	2.27	2.34	2.42	2.49	2.54	2.57	2.51	2.54	2.55	2.58	2.58	1.0%
East South Central	1.82	1.94	2.08	2.17	2.18	2.17	2.18	2.15	2.13	2.09	2.13	2.12	2.8%
West South Central	6.59	6.60	6.73	6.85	6.94	6.99	7.01	6.99	7.06	7.08	7.18	7.19	1.0%
Mountain	1.76	1.71	1.71	1.68	1.78	1.83	1.83	1.80	1.79	1.78	1.81	1.78	1.8%
Pacific	3.19	3.21	3.17	3.16	3.23	3.29	3.33	3.37	3.39	3.38	3.44	3.50	1.0%
Total	25.68	25.88	26.37	26.79	27.35	27.76	28.02	28.00	28.15	28.29	28.72	28.93	1.4%

Table 105. Natural Gas Consumption by End-Use Sector and Census Division  
(Trillion Cubic Feet per Year)

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2004 National Energy Modeling System.

Sources: 2001 and 2002 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 2001, Volume I, DOE/EIA-0348(2001)/1 (Washington, DC, March 2003). 2001 and 2002 nonutility consumption estimates: EIA, Form EIA-860 "Annual Electric Generator Report". Other 2001 values: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Other 2002 values: Short-Term Energy Outlook, September 2003, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep03.pdf>. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division  
(2002 Dollars per Thousand Cubic Feet)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Residential</b>													
New England	12.69	10.12	12.09	11.74	11.17	10.86	10.75	10.67	10.50	10.40	10.53	10.65	10.82
Middle Atlantic	10.77	8.82	10.87	10.47	9.96	9.70	9.60	9.56	9.37	9.26	9.40	9.57	9.74
East North Central	8.48	6.73	8.35	8.16	7.68	7.45	7.35	7.31	7.08	6.94	7.08	7.25	7.42
West North Central	9.38	8.06	8.78	8.57	8.17	7.98	7.88	7.82	7.64	7.56	7.69	7.81	8.00
South Atlantic	11.49	9.58	10.61	10.34	9.77	9.51	9.41	9.38	9.09	8.91	9.05	9.25	9.37
East South Central	10.59	8.11	9.20	9.19	8.70	8.53	8.45	8.42	8.15	7.94	8.10	8.33	8.48
West South Central	9.46	7.72	8.74	8.77	8.28	8.12	8.06	8.03	7.76	7.55	7.72	7.94	8.10
Mountain	8.54	6.98	8.42	8.29	7.93	7.71	7.56	7.47	7.15	7.09	7.23	7.26	7.48
Pacific	10.27	7.64	8.64	8.52	8.38	8.27	8.14	8.04	7.80	7.67	7.78	7.80	7.95
Average	9.79	7.86	9.29	9.07	8.63	8.42	8.31	8.26	8.02	7.88	8.02	8.16	8.32
<b>Commercial</b>													
New England	10.10	8.31	9.91	9.23	8.68	8.42	8.36	8.33	8.21	8.14	8.28	8.41	8.60
Middle Atlantic	9.54	6.88	9.02	8.28	7.79	7.56	7.50	7.50	7.34	7.26	7.40	7.56	7.74
East North Central	7.78	6.24	7.93	7.41	6.96	6.76	6.69	6.69	6.49	6.38	6.53	6.70	6.87
West North Central	8.17	5.40	7.81	7.28	6.90	6.74	6.67	6.66	6.50	6.45	6.59	6.71	6.90
South Atlantic	9.85	7.64	9.25	8.73	8.20	7.99	7.94	7.97	7.72	7.58	7.73	7.94	8.09
East South Central	9.45	7.11	8.40	8.06	7.59	7.44	7.41	7.41	7.18	7.00	7.16	7.39	7.55
West South Central	7.29	6.09	7.21	6.94	6.46	6.33	6.30	6.32	6.08	5.89	6.06	6.29	6.46
Mountain	7.60	5.70	7.46	7.13	6.84	6.67	6.57	6.55	6.27	6.23	6.39	6.44	6.66
Pacific	8.99	6.46	7.95	7.54	7.42	7.35	7.27	7.23	7.04	6.96	7.07	7.11	7.26
Average	8.67	6.55	8.31	7.78	7.37	7.19	7.13	7.12	6.93	6.83	6.97	7.13	7.30
<b>Industrial 1/</b>													
New England	5.91	4.68	7.10	5.67	5.20	5.03	5.08	5.15	5.12	5.14	5.28	5.43	5.63
Middle Atlantic	6.33	4.97	7.18	5.68	5.25	5.11	5.15	5.25	5.18	5.19	5.33	5.50	5.69
East North Central	5.21	4.04	6.21	4.96	4.57	4.46	4.49	4.58	4.47	4.44	4.58	4.76	4.94
West North Central	5.38	4.16	6.42	5.13	4.81	4.72	4.74	4.82	4.74	4.75	4.89	5.02	5.22
South Atlantic	6.03	4.50	6.37	5.11	4.66	4.54	4.60	4.73	4.59	4.54	4.70	4.92	5.10
East South Central	4.70	3.52	5.36	4.29	3.89	3.83	3.90	4.02	3.87	3.78	3.93	4.18	4.36
West South Central	4.51	3.38	5.24	4.21	3.82	3.77	3.83	3.95	3.80	3.68	3.83	4.06	4.24
Mountain	4.06	3.26	5.64	4.56	4.28	4.17	4.15	4.24	4.06	4.11	4.27	4.33	4.58
Pacific	5.70	4.42	5.71	4.62	4.56	4.55	4.55	4.61	4.52	4.52	4.63	4.69	4.85
Average	5.04	3.85	5.76	4.62	4.28	4.21	4.25	4.35	4.23	4.16	4.31	4.49	4.67
<b>Electric Generators 2/</b>													
New England	5.01	4.61	6.05	4.86	4.42	4.31	4.41	4.53	4.51	4.53	4.67	4.82	5.01
Middle Atlantic	4.20	3.92	6.03	4.49	4.07	3.91	3.94	4.06	3.99	4.01	4.17	4.35	4.56
East North Central	4.02	3.64	5.44	4.14	3.76	3.64	3.66	3.75	3.63	3.59	3.74	3.91	4.10
West North Central	4.44	3.48	5.85	4.50	4.14	4.02	4.03	4.13	4.00	4.01	4.16	4.32	4.52
South Atlantic	4.72	4.33	6.10	4.99	4.54	4.44	4.48	4.59	4.52	4.44	4.60	4.82	4.98
East South Central	4.15	3.47	5.60	4.48	4.06	3.96	4.01	4.12	3.96	3.90	4.06	4.30	4.55
West South Central	4.40	3.50	5.39	4.29	3.87	3.79	3.86	3.98	3.83	3.75	3.91	4.15	4.34
Mountain	5.50	3.91	5.71	4.86	4.75	4.70	4.69	4.79	4.59	4.55	4.70	4.79	4.98
Pacific	8.54	4.14	6.22	5.10	5.04	5.02	5.02	5.08	5.00	4.96	5.08	5.14	5.32
Average	5.40	3.85	5.73	4.59	4.26	4.18	4.22	4.31	4.19	4.12	4.27	4.45	4.63

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division  
(2002 Dollars per Thousand Cubic Feet)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Transportation 3/</b>													
New England	8.80	6.97	9.73	8.31	7.86	7.81	7.97	8.14	8.18	8.28	8.48	8.67	8.91
Middle Atlantic	10.33	9.34	11.62	10.11	9.75	9.73	9.86	10.02	10.00	10.04	10.20	10.38	10.54
East North Central	9.42	8.30	10.55	9.30	8.90	8.87	8.96	9.09	9.01	9.01	9.17	9.36	9.54
West North Central	8.62	7.24	9.61	8.34	8.04	8.08	8.21	8.38	8.37	8.45	8.64	8.79	9.02
South Atlantic	8.17	7.07	9.21	8.02	7.62	7.63	7.82	8.04	7.98	8.00	8.22	8.49	8.69
East South Central	9.97	8.45	10.31	9.23	8.82	8.79	8.89	9.03	8.90	8.84	9.00	9.24	9.42
West South Central	9.32	8.29	10.03	8.99	8.58	8.58	8.70	8.86	8.73	8.66	8.84	9.08	9.27
Mountain	9.08	7.82	9.99	8.98	8.77	8.75	8.79	8.91	8.76	8.81	8.97	9.05	9.28
Pacific	7.50	5.30	7.08	6.00	5.99	6.23	6.45	6.68	6.71	6.84	7.07	7.22	7.47
Average	8.94	7.58	9.70	8.48	8.16	8.20	8.34	8.51	8.46	8.49	8.68	8.87	9.07
<b>All Sectors 4/</b>													
New England	8.07	6.55	8.91	7.29	6.92	6.65	6.67	6.70	6.62	6.60	6.74	6.86	7.09
Middle Atlantic	8.35	6.56	8.75	7.69	7.22	6.99	6.94	6.94	6.79	6.68	6.80	6.94	7.08
East North Central	6.94	5.50	7.25	6.43	5.98	5.81	5.78	5.78	5.59	5.50	5.61	5.76	5.92
West North Central	7.46	5.88	7.56	6.79	6.41	6.26	6.21	6.21	6.11	6.07	6.19	6.28	6.48
South Atlantic	7.63	6.07	7.96	6.96	6.45	6.28	6.29	6.38	6.28	6.12	6.27	6.49	6.68
East South Central	6.37	4.78	6.52	5.64	5.21	5.13	5.17	5.24	5.12	4.96	5.09	5.32	5.44
West South Central	4.94	3.84	5.65	4.71	4.30	4.22	4.27	4.37	4.20	4.07	4.23	4.45	4.63
Mountain	6.44	5.03	6.62	6.12	5.87	5.74	5.67	5.69	5.45	5.45	5.59	5.65	5.89
Pacific	8.15	5.39	6.90	6.12	6.06	6.02	5.97	5.98	5.85	5.82	5.94	5.98	6.14
Average	6.81	5.21	7.03	6.15	5.77	5.65	5.63	5.67	5.51	5.41	5.54	5.69	5.86

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division  
(2002 Dollars per Thousand Cubic Feet)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Residential</b>													
New England	10.98	11.01	11.03	11.00	10.96	10.87	10.81	10.94	10.93	10.87	10.83	10.79	0.3%
Middle Atlantic	9.87	9.97	9.95	9.94	9.91	9.86	9.89	10.04	10.00	9.99	9.97	9.96	0.5%
East North Central	7.51	7.65	7.66	7.65	7.60	7.53	7.62	7.79	7.76	7.75	7.74	7.72	0.6%
West North Central	8.13	8.21	8.23	8.24	8.17	8.06	8.10	8.30	8.32	8.31	8.31	8.26	0.1%
South Atlantic	9.42	9.58	9.53	9.50	9.48	9.45	9.54	9.66	9.58	9.57	9.54	9.54	0.0%
East South Central	8.52	8.72	8.67	8.64	8.62	8.61	8.74	8.89	8.79	8.78	8.74	8.76	0.3%
West South Central	8.16	8.36	8.32	8.30	8.26	8.25	8.40	8.57	8.47	8.46	8.42	8.44	0.4%
Mountain	7.56	7.66	7.78	7.85	7.69	7.47	7.63	7.86	7.93	7.93	7.95	7.82	0.5%
Pacific	8.01	8.03	8.09	8.12	8.06	7.95	7.98	8.16	8.22	8.20	8.23	8.11	0.3%
Average	8.41	8.52	8.53	8.53	8.48	8.40	8.47	8.64	8.62	8.61	8.60	8.56	0.4%
<b>Commercial</b>													
New England	8.77	8.81	8.86	8.85	8.82	8.74	8.70	8.84	8.84	8.80	8.76	8.73	0.2%
Middle Atlantic	7.87	7.98	7.97	7.97	7.95	7.90	7.94	8.08	8.06	8.04	8.02	8.02	0.7%
East North Central	6.97	7.11	7.12	7.12	7.07	7.01	7.10	7.26	7.24	7.23	7.22	7.20	0.6%
West North Central	7.04	7.12	7.15	7.16	7.10	6.99	7.04	7.24	7.26	7.25	7.25	7.20	1.3%
South Atlantic	8.15	8.33	8.30	8.29	8.27	8.25	8.35	8.48	8.40	8.41	8.38	8.39	0.4%
East South Central	7.61	7.81	7.78	7.76	7.74	7.73	7.87	8.02	7.93	7.93	7.90	7.93	0.5%
West South Central	6.53	6.73	6.72	6.70	6.66	6.66	6.82	6.98	6.89	6.88	6.85	6.86	0.5%
Mountain	6.75	6.86	6.99	7.07	6.93	6.72	6.90	7.13	7.21	7.21	7.24	7.13	1.0%
Pacific	7.35	7.38	7.44	7.48	7.44	7.34	7.36	7.54	7.61	7.59	7.62	7.52	0.7%
Average	7.40	7.52	7.54	7.55	7.51	7.44	7.52	7.68	7.67	7.66	7.65	7.62	0.7%
<b>Industrial 1/</b>													
New England	5.82	5.87	5.95	5.95	5.94	5.86	5.82	5.97	5.98	5.95	5.91	5.88	1.0%
Middle Atlantic	5.85	5.96	5.97	5.97	5.96	5.91	5.95	6.09	6.08	6.07	6.05	6.04	0.9%
East North Central	5.06	5.20	5.23	5.24	5.20	5.14	5.22	5.39	5.37	5.37	5.36	5.35	1.2%
West North Central	5.38	5.46	5.51	5.53	5.47	5.36	5.42	5.61	5.64	5.63	5.63	5.58	1.3%
South Atlantic	5.18	5.37	5.37	5.38	5.37	5.36	5.48	5.61	5.55	5.56	5.54	5.56	0.9%
East South Central	4.44	4.65	4.66	4.65	4.63	4.63	4.78	4.93	4.84	4.84	4.82	4.84	1.4%
West South Central	4.34	4.54	4.55	4.54	4.51	4.51	4.67	4.84	4.75	4.74	4.71	4.73	1.5%
Mountain	4.70	4.85	4.99	5.08	4.95	4.74	4.91	5.15	5.24	5.25	5.28	5.17	2.0%
Pacific	4.95	5.00	5.07	5.13	5.11	5.04	5.06	5.24	5.32	5.32	5.35	5.26	0.8%
Average	4.78	4.94	4.97	4.98	4.95	4.91	5.02	5.19	5.16	5.15	5.14	5.13	1.3%
<b>Electric Generators 2/</b>													
New England	5.20	5.25	5.33	5.34	5.35	5.29	5.26	5.41	5.42	5.40	5.37	5.34	0.6%
Middle Atlantic	4.72	4.84	4.87	4.89	4.87	4.83	4.88	5.02	5.01	5.00	4.99	4.97	1.0%
East North Central	4.22	4.37	4.42	4.43	4.40	4.35	4.44	4.62	4.60	4.60	4.60	4.60	1.0%
West North Central	4.69	4.80	4.86	4.89	4.83	4.72	4.80	4.97	5.00	4.97	4.97	4.95	1.5%
South Atlantic	5.03	5.21	5.24	5.25	5.26	5.25	5.37	5.46	5.39	5.39	5.36	5.37	0.9%
East South Central	4.69	4.94	4.97	4.98	4.95	4.94	5.08	5.23	5.14	5.12	5.10	5.13	1.7%
West South Central	4.44	4.64	4.67	4.67	4.63	4.63	4.79	4.94	4.85	4.83	4.81	4.83	1.4%
Mountain	5.05	5.14	5.26	5.36	5.25	5.08	5.23	5.45	5.55	5.55	5.62	5.52	1.5%
Pacific	5.42	5.46	5.51	5.55	5.53	5.46	5.46	5.64	5.71	5.69	5.72	5.63	1.3%
Average	4.73	4.87	4.91	4.91	4.89	4.85	4.94	5.10	5.06	5.04	5.03	5.01	1.2%

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division  
(2002 Dollars per Thousand Cubic Feet)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
<b>Transportation 3/</b>													
New England	9.14	9.21	9.30	9.31	9.31	9.23	9.19	9.33	9.34	9.31	9.27	9.24	1.2%
Middle Atlantic	10.64	10.72	10.75	10.75	10.72	10.64	10.63	10.73	10.67	10.62	10.57	10.52	0.5%
East North Central	9.65	9.78	9.80	9.78	9.71	9.61	9.67	9.80	9.75	9.72	9.68	9.65	0.7%
West North Central	9.19	9.28	9.32	9.33	9.25	9.12	9.14	9.31	9.32	9.29	9.26	9.19	1.0%
South Atlantic	8.80	9.00	9.01	9.02	9.00	8.98	9.08	9.19	9.11	9.11	9.08	9.08	1.1%
East South Central	9.48	9.68	9.66	9.63	9.59	9.56	9.67	9.79	9.68	9.65	9.60	9.60	0.6%
West South Central	9.35	9.54	9.54	9.51	9.44	9.42	9.55	9.69	9.57	9.53	9.49	9.48	0.6%
Mountain	9.38	9.50	9.63	9.71	9.57	9.35	9.50	9.71	9.79	9.78	9.80	9.67	0.9%
Pacific	7.62	7.72	7.84	7.93	7.91	7.83	7.86	8.06	8.15	8.15	8.19	8.08	1.9%
Average	9.19	9.32	9.37	9.38	9.33	9.25	9.32	9.46	9.43	9.41	9.39	9.34	0.9%
<b>All Sectors 4/</b>													
New England	7.31	7.34	7.39	7.37	7.29	7.17	7.11	7.24	7.24	7.17	7.13	7.10	0.3%
Middle Atlantic	7.21	7.28	7.24	7.22	7.18	7.12	7.15	7.28	7.26	7.24	7.22	7.21	0.4%
East North Central	6.00	6.12	6.12	6.09	6.02	5.93	6.00	6.16	6.14	6.11	6.08	6.05	0.4%
West North Central	6.62	6.68	6.71	6.71	6.64	6.53	6.57	6.77	6.80	6.79	6.77	6.71	0.6%
South Atlantic	6.77	6.99	6.96	6.93	6.91	6.89	7.02	7.19	7.12	7.14	7.12	7.15	0.7%
East South Central	5.47	5.66	5.64	5.61	5.59	5.59	5.74	5.90	5.82	5.81	5.79	5.81	0.9%
West South Central	4.72	4.93	4.94	4.92	4.88	4.88	5.04	5.21	5.11	5.10	5.08	5.09	1.2%
Mountain	6.00	6.16	6.30	6.42	6.26	6.05	6.24	6.50	6.61	6.63	6.67	6.60	1.2%
Pacific	6.24	6.28	6.37	6.43	6.39	6.30	6.33	6.51	6.58	6.59	6.62	6.51	0.8%
Average	5.96	6.09	6.11	6.10	6.05	5.99	6.09	6.26	6.24	6.23	6.21	6.19	0.8%

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division  
(2002 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. Excludes dispensing charges for fleet vehicles.

4/ Weighted average price. Weights used are the sector consumption values.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2004 National Energy Modeling System.

Sources: 2001 and 2002 industrial natural gas delivered prices are based on Energy Information Administration (EIA), Manufacturing Energy Consumption Survey 1998. 2001 and 2002 transportation values based on EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003) and assumed fuel taxes. Other 2001 values: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). Other 2002 values: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.



Table 107. Natural Gas Pipeline Capacity By Census Division  
(Design Capacity in Billions of Cubic Feet per Year)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Capacity Entering Region 1/</b>													
New England	1219	1232	1266	1330	1395	1512	1549	1549	1549	1549	1549	1549	1566
Middle Atlantic	4542	4554	4809	5284	5311	5332	5332	5332	5332	5332	5332	5332	5332
East North Central	8882	8930	8930	8930	8930	8930	8930	8930	8930	8930	8930	8930	8930
West North Central	7597	7684	7871	7904	7998	8131	8131	8131	8131	8131	8131	8131	8131
South Atlantic	5590	5906	6379	6593	6722	6763	6763	6763	6763	6763	6763	6763	6763
East South Central	9122	9219	9451	9843	10037	10282	10282	10282	10282	10282	10282	10282	10282
West South Central	1834	1860	1871	1871	1871	1871	1871	1871	1871	1871	1871	1871	1871
Mountain	2486	2553	2692	2727	2913	3182	3182	3182	3182	3182	3182	3182	3182
Pacific	3837	4011	4429	4840	5154	5178	5178	5178	5178	5178	5178	5178	5178
Total	45110	45951	47698	49322	50332	51181	51219	51219	51219	51219	51219	51219	51236
United States (Pipeline Imports)	5951	5985	6185	6517	6622	6720	6720	6720	6720	6720	6720	6720	6737
<b>Capacity Exiting Region 2/</b>													
New England	104	104	188	368	395	416	416	416	416	416	416	416	416
Middle Atlantic	2066	2070	2106	2171	2210	2269	2307	2307	2307	2307	2307	2307	2307
East North Central	3445	3447	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452
West North Central	5355	5442	5521	5521	5521	5521	5521	5521	5521	5521	5521	5521	5521
South Atlantic	3357	3369	3394	3394	3394	3394	3394	3394	3394	3394	3394	3394	3394
East South Central	7302	7618	8089	8301	8409	8409	8409	8409	8409	8409	8409	8409	8409
West South Central	14242	14381	14774	15348	15729	16243	16243	16243	16243	16243	16243	16243	16243
Mountain	4890	5187	5767	6184	6535	6692	6692	6692	6692	6692	6692	6692	6692
Pacific	335	335	335	346	369	369	369	369	369	369	369	369	369
Total	41096	41953	43627	45086	46014	46766	46804	46804	46804	46804	46804	46804	46804
United States (Pipeline Exports)	1937	1988	2114	2282	2305	2305	2305	2305	2305	2305	2305	2305	2305

Table 107. Natural Gas Pipeline Capacity By Census Division  
(Design Capacity in Billions of Cubic Feet per Year)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Capacity Entering Region 1/</b>													
New England	1626	1706	1776	1826	1876	1926	1976	2009	2009	2009	2009	2009	2.1%
Middle Atlantic	5332	5332	5332	5332	5332	5332	5332	5332	5332	5332	5332	5332	0.7%
East North Central	8930	8930	8930	8930	8987	9142	9298	9360	9441	9600	9763	9936	0.5%
West North Central	8194	8369	8491	8601	9040	9479	9559	9686	9780	9915	10042	10200	1.2%
South Atlantic	6763	6763	6763	6763	6763	6763	6763	6763	6763	6763	6763	6763	0.6%
East South Central	10282	10282	10282	10282	10282	10282	10282	10282	10282	10282	10282	10282	0.5%
West South Central	1871	1878	1878	1878	1884	1893	1906	1906	1906	1906	1906	1906	0.1%
Mountain	3182	3182	3182	3182	3190	3198	3198	3198	3198	3199	3201	3201	1.0%
Pacific	5178	5178	5178	5178	5444	5709	5709	5709	5709	5771	5841	5897	1.7%
Total	51359	51620	51812	51972	52797	53723	54023	54244	54419	54777	55140	55526	0.8%
United States (Pipeline Imports)	6797	6877	6947	6997	7759	8520	8570	8604	8604	8769	8935	8935	1.8%
<b>Capacity Exiting Region 2/</b>													
New England	416	416	416	416	416	416	416	416	416	416	416	416	6.2%
Middle Atlantic	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	0.5%
East North Central	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452	0.0%
West North Central	5521	5521	5521	5521	5521	5556	5712	5774	5855	6014	6154	6303	0.6%
South Atlantic	3394	3394	3394	3394	3394	3394	3394	3394	3394	3394	3394	3394	0.0%
East South Central	8409	8409	8409	8409	8466	8586	8586	8586	8586	8586	8609	8632	0.5%
West South Central	16243	16243	16243	16243	16243	16243	16243	16243	16243	16243	16243	16243	0.5%
Mountain	6755	6936	7058	7168	7175	7184	7278	7404	7498	7532	7565	7779	1.8%
Pacific	369	369	369	369	369	369	369	369	369	369	369	369	0.4%
Total	46867	47048	47170	47280	47343	47507	47757	47945	48120	48313	48509	48896	0.7%
United States (Pipeline Exports)	2305	2305	2305	2305	2305	2305	2305	2305	2305	2305	2305	2305	0.6%

Table 107. Natural Gas Pipeline Capacity By Census Division  
(Design Capacity in Billions of Cubic Feet per Year)

1/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline import capacity.

2/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline export capacity.

N/A = Not applicable.

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

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division  
(Fraction)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Utilization Entering Region													
New England	0.59	0.69	0.62	0.79	0.75	0.61	0.60	0.61	0.62	0.62	0.63	0.64	0.62
Middle Atlantic	0.66	0.59	0.67	0.64	0.64	0.62	0.62	0.63	0.63	0.65	0.65	0.66	0.66
East North Central	0.62	0.56	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.66	0.67	0.68	0.69
West North Central	0.54	0.54	0.56	0.55	0.54	0.53	0.53	0.54	0.54	0.54	0.54	0.55	0.55
South Atlantic	0.65	0.60	0.56	0.52	0.49	0.45	0.44	0.44	0.42	0.43	0.44	0.44	0.43
East South Central	0.64	0.62	0.66	0.63	0.61	0.58	0.57	0.55	0.54	0.56	0.55	0.55	0.56
West South Central	0.23	0.25	0.29	0.31	0.30	0.27	0.25	0.24	0.23	0.23	0.23	0.24	0.24
Mountain	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Pacific	0.71	0.61	0.53	0.50	0.47	0.48	0.50	0.51	0.52	0.52	0.53	0.54	0.55
Average 2/	0.58	0.55	0.57	0.56	0.54	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.54
United States (Pipeline Imports)	0.72	0.72	0.69	0.67	0.65	0.64	0.65	0.67	0.69	0.70	0.70	0.70	0.69
Utilization Exiting Region													
New England	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Middle Atlantic	0.32	0.41	0.37	0.45	0.42	0.36	0.35	0.34	0.34	0.34	0.33	0.33	0.32
East North Central	0.59	0.54	0.59	0.57	0.54	0.51	0.51	0.50	0.49	0.50	0.50	0.50	0.50
West North Central	0.60	0.53	0.59	0.60	0.59	0.59	0.59	0.60	0.60	0.60	0.61	0.62	0.62
South Atlantic	0.58	0.48	0.55	0.53	0.52	0.50	0.50	0.50	0.50	0.52	0.52	0.53	0.53
East South Central	0.68	0.63	0.65	0.63	0.61	0.59	0.58	0.59	0.58	0.59	0.61	0.61	0.61
West South Central	0.51	0.51	0.55	0.52	0.51	0.48	0.47	0.46	0.45	0.46	0.45	0.45	0.46
Mountain	0.54	0.46	0.46	0.46	0.44	0.44	0.45	0.46	0.46	0.46	0.48	0.50	0.52
Pacific	0.07	0.13	0.22	0.28	0.26	0.28	0.29	0.30	0.31	0.32	0.32	0.32	0.32
Average 2/	0.56	0.52	0.55	0.54	0.53	0.51	0.50	0.50	0.50	0.50	0.51	0.51	0.52
United States (Pipeline Exports)	0.46	0.53	0.58	0.58	0.58	0.59	0.60	0.61	0.62	0.62	0.62	0.62	0.62

Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division  
(Fraction)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Utilization Entering Region</b>													
New England	0.59	0.57	0.52	0.47	0.48	0.49	0.49	0.49	0.49	0.51	0.52	0.53	-1.2%
Middle Atlantic	0.66	0.66	0.64	0.64	0.64	0.65	0.65	0.65	0.64	0.65	0.65	0.65	0.4%
East North Central	0.69	0.70	0.71	0.72	0.73	0.74	0.74	0.74	0.73	0.74	0.74	0.74	1.3%
West North Central	0.55	0.54	0.54	0.54	0.53	0.52	0.52	0.53	0.52	0.53	0.53	0.54	0.0%
South Atlantic	0.43	0.42	0.41	0.41	0.43	0.44	0.44	0.42	0.40	0.41	0.41	0.41	-1.7%
East South Central	0.56	0.56	0.55	0.56	0.58	0.58	0.58	0.56	0.55	0.55	0.55	0.55	-0.5%
West South Central	0.25	0.26	0.26	0.26	0.27	0.28	0.29	0.29	0.28	0.28	0.27	0.27	0.3%
Mountain	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	-0.2%
Pacific	0.55	0.55	0.55	0.54	0.53	0.52	0.52	0.53	0.53	0.53	0.53	0.53	-0.5%
Average 2/	0.53	0.54	0.53	0.53	0.54	0.54	0.54	0.54	0.53	0.53	0.54	0.54	-0.1%
United States (Pipeline Imports)	0.66	0.64	0.61	0.58	0.60	0.61	0.60	0.60	0.60	0.60	0.62	0.62	-0.7%
<b>Utilization Exiting Region</b>													
New England	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	N/A
Middle Atlantic	0.31	0.30	0.28	0.26	0.27	0.28	0.27	0.27	0.26	0.27	0.26	0.26	-1.9%
East North Central	0.51	0.51	0.50	0.50	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	-0.2%
West North Central	0.63	0.64	0.64	0.65	0.67	0.69	0.70	0.71	0.70	0.70	0.71	0.71	1.3%
South Atlantic	0.54	0.54	0.52	0.52	0.53	0.53	0.53	0.52	0.51	0.51	0.50	0.49	0.1%
East South Central	0.61	0.61	0.60	0.62	0.63	0.63	0.63	0.61	0.60	0.60	0.61	0.61	-0.1%
West South Central	0.46	0.46	0.45	0.46	0.46	0.45	0.45	0.44	0.43	0.43	0.43	0.43	-0.8%
Mountain	0.53	0.55	0.56	0.57	0.54	0.53	0.55	0.56	0.57	0.57	0.57	0.58	1.0%
Pacific	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.32	0.32	0.31	0.30	3.8%
Average 2/	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.53	0.53	0.0%
United States (Pipeline Exports)	0.61	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.61	0.6%

Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division  
(Fraction)

1/ Capacity utilization is defined as the annual throughput volume divided by the design capacity (Table 87).

2/ Weighted average utilization. Weights used are the regional pipeline capacity levels provided in Table 87.

N/A = Not applicable.

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

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 109. Domestic Coal Supply, Disposition, and Prices  
(Quantities in Million Short Tons; Prices in 2002 Dollars per Short Ton)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sources of Supply													
Distribution from													
Appalachia 1/	390.0	377.5	352.6	361.6	365.7	368.8	372.3	375.5	373.2	378.3	377.3	372.2	365.3
Interior	146.3	146.9	152.1	156.4	152.3	159.8	167.0	174.3	168.1	168.9	170.5	163.2	163.2
Northern Great Plains	429.3	433.8	456.4	464.9	485.0	501.1	511.5	505.9	532.8	539.2	547.0	564.3	579.8
Other West and Non-Contiguous	104.7	104.4	96.5	96.4	97.8	99.0	103.0	106.4	109.1	108.7	110.8	118.3	120.8
Total Distribution (excludes exports)	1070.2	1062.5	1057.6	1079.4	1100.8	1128.7	1153.8	1162.1	1183.3	1195.1	1205.6	1218.0	1229.2
Imports	19.8	16.9	21.2	23.2	25.5	27.2	29.2	30.7	32.2	33.2	34.2	35.2	36.2
Total Supply	1090.0	1079.4	1078.8	1102.6	1126.2	1155.9	1183.0	1192.8	1215.6	1228.3	1239.9	1253.3	1265.5
Consumption													
Residential/Commercial	4.4	4.4	4.9	4.8	4.9	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Industrial 2/	65.3	63.1	64.3	64.1	64.6	64.6	64.6	64.5	64.4	64.6	64.8	65.0	65.2
Coke Plants	26.1	22.5	24.9	25.2	24.9	24.6	24.3	24.0	23.9	23.5	23.0	22.5	22.1
Electric Generators 3/	964.4	975.9	1005.5	1003.6	1032.1	1061.6	1089.4	1099.6	1122.6	1135.9	1147.5	1161.1	1173.6
Total Consumption	1060.2	1065.9	1099.6	1097.8	1126.4	1155.7	1183.2	1193.1	1215.8	1228.8	1240.3	1253.5	1265.8
Discrepancy 4/	29.9	13.5	-20.8	4.8	-0.2	0.2	-0.3	-0.2	-0.3	-0.5	-0.4	-0.3	-0.3
Delivered Prices													
Industrial	32.96	33.24	35.53	35.02	34.66	34.53	34.42	34.64	34.50	34.46	34.36	34.10	33.99
Coke Plants	46.94	51.27	55.61	55.29	54.55	54.29	53.76	53.90	53.71	53.68	53.28	52.77	52.42
Electric Generators	25.13	25.96	25.00	24.94	24.89	24.75	24.64	24.77	24.71	24.67	24.64	24.56	24.53
Average Price 5/	26.15	26.93	26.31	26.23	26.11	25.93	25.77	25.90	25.80	25.74	25.68	25.57	25.51

Table 109. Domestic Coal Supply, Disposition, and Prices  
(Quantities in Million Short Tons; Prices in 2002 Dollars per Short Ton)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Sources of Supply													
Distribution from													
Appalachia 1/ Interior	364.9	368.1	360.9	365.7	372.2	374.9	378.7	383.5	391.5	394.8	395.9	401.3	0.3%
Northern Great Plains	163.3	161.8	160.4	158.2	164.9	166.6	170.3	174.2	176.4	177.2	176.4	178.1	0.8%
Other West and Non-Contiguous	588.4	597.6	623.6	629.8	627.9	646.6	662.9	679.2	700.6	737.9	757.8	786.1	2.6%
	123.1	125.5	127.4	133.4	133.0	134.4	137.3	139.7	144.4	149.4	154.1	154.4	1.7%
Total Distribution (excludes exports)	1239.7	1253.1	1272.3	1287.2	1298.0	1322.4	1349.2	1376.6	1412.8	1459.3	1484.1	1519.9	1.6%
Imports	37.2	37.7	38.2	39.2	40.2	40.2	41.7	42.7	43.7	44.7	45.2	45.7	4.4%
Total Supply	1276.9	1290.8	1310.5	1326.4	1338.2	1362.6	1390.9	1419.4	1456.6	1504.0	1529.4	1565.6	1.6%
Consumption													
Residential/Commercial	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8	4.8	0.4%
Industrial 2/ Coke Plants	65.4	65.4	65.6	65.8	66.1	66.1	66.3	66.4	66.6	66.9	67.1	67.4	0.3%
Electric Generators 3/ Total Consumption	21.6	21.2	20.7	20.3	19.8	19.4	19.0	18.6	18.2	17.8	17.4	17.1	-1.2%
	1185.4	1199.8	1219.7	1235.9	1247.9	1273.0	1301.1	1330.2	1367.4	1415.2	1440.8	1477.3	1.8%
	1277.3	1291.2	1310.8	1326.9	1338.7	1363.5	1391.3	1420.0	1457.1	1504.7	1530.2	1566.6	1.7%
Discrepancy 4/	-0.4	-0.4	-0.3	-0.4	-0.5	-0.8	-0.4	-0.6	-0.5	-0.7	-0.8	-1.0	N/A
Delivered Prices													
Industrial	33.87	33.83	33.73	33.75	33.52	33.20	33.43	33.49	33.59	33.51	33.43	33.33	0.0%
Coke Plants	52.33	52.13	51.97	51.67	51.67	51.25	50.45	49.98	49.45	48.95	48.64	48.42	-0.2%
Electric Generators	24.34	24.34	24.17	24.16	24.08	23.84	24.01	24.09	24.23	24.27	24.30	24.31	-0.3%
Average Price 5/	25.31	25.28	25.09	25.06	24.96	24.69	24.83	24.87	24.98	24.98	24.98	24.96	-0.3%



Table 109. Domestic Coal Supply, Disposition, and Prices  
(Quantities in Million Short Tons; Prices in 2002 Dollars per Short Ton)

1/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

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

3/ Includes all electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Includes stock changes.

5/ Weighted average excludes residential/commercial prices.

Appalachia: Pennsylvania, Ohio, Maryland, West Virginia, Virginia, Tennessee, Alabama, Eastern Kentucky.

Interior: Western Kentucky, Illinois, Indiana, Iowa, Missouri, Mississippi, Kansas, Oklahoma, Arkansas, Texas, Louisiana.

Northern Great Plains: North Dakota, Montana, Wyoming.

Other West and Non-Contiguous: Colorado, Utah, Arizona, New Mexico, Washington, Alaska.

N/A = Not applicable.

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

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 110. Coal Production and Minemouth Prices by Region  
(Production in Million Short Tons; Prices in 2002 Dollars per Short Ton)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Production</b>													
Appalachia 2/ Interior	443.40	408.07	387.89	395.81	399.20	401.63	404.50	407.00	404.01	408.23	406.42	398.42	391.12
West	147.03	146.86	152.14	156.45	152.31	159.88	166.99	174.35	168.15	168.87	170.56	163.28	163.28
Northern Great Plains	547.88	550.45	559.65	568.55	589.48	606.63	620.86	618.11	647.95	653.10	662.63	688.00	705.77
Other West and Non-Contiguous	438.37	441.35	462.26	470.74	490.28	506.26	516.59	510.52	537.73	543.42	551.01	569.03	584.44
East of Mississippi River	109.51	109.10	97.39	97.81	99.21	100.36	104.27	107.59	110.22	109.69	111.63	118.97	121.33
West of Mississippi River	539.40	504.02	485.13	497.14	499.65	508.82	517.92	522.89	518.95	524.36	524.45	509.48	502.40
U.S. Total	598.91	601.36	614.56	623.67	641.35	659.31	674.43	676.57	701.16	705.84	715.17	740.21	757.78
<b>Minemouth Prices</b>													
Appalachia	27.54	28.27	28.65	28.59	28.22	27.79	27.71	27.99	27.84	27.75	27.58	27.43	27.33
Interior	20.41	20.16	20.78	20.84	20.46	20.58	21.09	21.23	21.32	21.31	21.26	20.88	20.74
West	9.20	9.60	9.45	9.14	8.98	8.89	8.89	8.91	8.98	8.93	9.11	9.47	9.68
Northern Great Plains	6.34	6.89	7.22	6.95	6.86	6.85	6.83	6.75	6.83	6.80	6.83	7.03	7.18
Other West and Non-Contiguous	20.63	20.59	20.04	19.66	19.42	19.20	19.07	19.11	19.50	19.51	20.36	21.16	21.73
East of Mississippi River	26.58	27.20	27.50	27.45	27.09	26.74	26.79	27.08	26.93	26.86	26.68	26.51	26.37
West of Mississippi River	9.87	10.10	10.12	9.82	9.57	9.46	9.45	9.51	9.52	9.46	9.61	9.93	10.11
U.S. Total	17.79	17.90	17.79	17.64	17.24	16.99	16.98	17.17	16.93	16.88	16.84	16.69	16.59

Table 110. Coal Production and Minemouth Prices by Region  
(Production in Million Short Tons; Prices in 2002 Dollars per Short Ton)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Production</b>													
Appalachia 2/	391.03	394.54	387.60	392.75	399.49	400.60	401.64	406.02	413.45	416.93	417.77	418.80	0.1%
Interior	163.36	161.88	160.40	158.19	164.88	166.55	170.30	174.21	176.37	177.23	176.36	178.07	0.8%
West	716.56	728.25	756.12	768.23	765.70	785.54	804.58	823.16	850.34	892.70	917.40	946.05	2.4%
Northern Great Plains	593.00	602.24	628.22	634.31	632.20	650.67	666.79	683.00	705.48	742.87	762.85	791.21	2.6%
Other West and Non-Contiguous	123.56	126.02	127.90	133.92	133.50	134.86	137.80	140.17	144.86	149.84	154.55	154.84	1.5%
East of Mississippi River	502.61	504.85	496.67	500.04	513.91	517.12	522.08	530.50	540.26	544.72	544.84	547.40	0.4%
West of Mississippi River	768.33	779.82	807.46	819.13	816.17	835.57	854.45	872.89	899.90	942.13	966.69	995.52	2.2%
U.S. Total	1270.95	1284.68	1304.13	1319.17	1330.08	1352.69	1376.53	1403.39	1440.16	1486.86	1511.53	1542.92	1.5%
<b>Minemouth Prices</b>													
Appalachia	27.17	27.22	27.14	27.02	27.10	27.00	27.05	27.21	27.30	27.38	27.45	27.42	-0.1%
Interior	20.69	20.66	20.65	20.60	20.92	21.02	21.36	21.77	22.01	22.13	22.38	22.40	0.5%
West	9.62	9.72	9.63	9.91	9.69	9.59	9.90	10.02	10.21	10.43	10.62	10.67	0.5%
Northern Great Plains	7.29	7.37	7.40	7.36	7.34	7.36	7.40	7.47	7.60	7.89	8.08	8.21	0.8%
Other West and Non-Contiguous	20.83	20.94	20.58	21.97	20.79	20.34	22.03	22.44	22.92	23.01	23.18	23.23	0.5%
East of Mississippi River	26.23	26.27	26.21	26.12	26.23	26.17	26.27	26.49	26.63	26.72	26.86	26.83	-0.1%
West of Mississippi River	10.05	10.12	10.03	10.28	10.06	9.96	10.25	10.35	10.52	10.71	10.89	10.93	0.3%
U.S. Total	16.45	16.47	16.19	16.29	16.31	16.16	16.32	16.45	16.56	16.58	16.65	16.57	-0.3%

Table 110. Coal Production and Minemouth Prices by Region  
(Production in Million Short Tons; Prices in 2002 Dollars per Short Ton)

1/ Coal Production Regions:

Appalachia: Pennsylvania, Ohio, Maryland, West Virginia, Virginia, Tennessee, Alabama, Eastern Kentucky.

Interior: Western Kentucky, Illinois, Indiana, Iowa, Missouri, Mississippi, Kansas, Oklahoma, Arkansas, Texas, Louisiana.

West:

Northern Great Plains = North Dakota, Montana, Wyoming.

Other West and Non-Contiguous = Colorado, Utah, Arizona, New Mexico, Washington, Alaska.

2/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

N/A = Not applicable

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

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 111. Coal Production by Region and Type  
(Million Short Tons)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Northern Appalachia	153.60	139.91	152.88	161.14	157.61	159.57	167.50	172.99	171.14	176.19	178.27	173.90	170.21
Medium Sulfur (Premium) 1/	3.85	2.84	3.31	3.30	3.26	3.23	3.19	3.15	3.14	3.09	3.03	2.97	2.92
Low Sulfur (Bituminous) 2/	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Medium Sulfur (Bituminous) 2/	75.20	66.57	73.51	76.33	77.54	78.96	80.65	84.26	84.41	86.26	87.80	86.37	82.78
High Sulfur (Bituminous)	63.58	59.40	67.30	73.63	69.76	69.01	74.33	77.52	75.03	78.38	78.89	76.00	77.26
High Sulfur (Gob) 3/	10.60	11.10	8.75	7.89	7.05	8.38	9.32	8.06	8.55	8.47	8.55	8.55	7.26
Central Appalachia	266.95	249.09	220.81	221.21	229.19	230.06	226.07	224.03	220.15	219.85	215.85	212.36	208.41
Medium Sulfur (Premium) 1/	38.93	33.97	37.42	36.42	36.07	35.72	35.37	35.02	34.83	34.34	33.85	33.36	32.88
Low Sulfur (Bituminous)	71.20	63.89	52.34	51.20	47.33	53.70	51.62	44.84	46.25	51.17	51.44	54.00	56.15
Medium Sulfur (Bituminous)	156.82	151.23	131.05	133.59	145.79	140.64	139.08	144.17	139.06	134.33	130.56	125.01	119.39
Southern Appalachia	22.85	19.07	14.21	13.46	12.40	11.99	10.93	9.98	12.73	12.19	12.31	12.15	12.50
Low Sulfur (Premium) 1/	6.72	4.59	5.45	5.11	5.07	5.03	4.99	4.96	4.93	4.78	4.78	2.69	3.09
Low Sulfur (Bituminous)	5.88	3.07	1.73	1.67	1.43	1.37	1.00	0.86	0.80	0.67	0.55	1.92	2.03
Medium Sulfur (Bituminous)	10.25	11.41	7.04	6.68	5.90	5.60	4.93	4.16	7.00	6.74	6.98	7.55	7.38
Eastern Interior	96.00	95.95	97.23	101.32	100.45	107.19	113.42	115.89	114.94	116.13	118.02	111.07	111.27
Medium Sulfur (Bituminous)	33.56	32.98	31.34	30.01	30.93	32.74	35.98	36.12	35.71	35.37	36.12	34.88	34.19
High Sulfur (Bituminous)	61.84	60.66	62.69	68.50	66.03	70.99	73.88	76.09	75.45	76.94	77.97	72.25	73.11
Medium Sulfur (Lignite)	0.60	2.31	3.20	2.81	3.49	3.46	3.56	3.67	3.78	3.82	3.93	3.93	3.97
Western Interior High Sulfur (Bituminous)	2.41	1.89	1.44	1.89	1.95	1.91	1.85	1.85	2.12	2.02	2.02	1.91	1.91
Gulf	48.62	49.02	53.46	53.23	49.92	50.78	51.72	56.61	51.09	50.72	50.52	50.30	50.10
Medium Sulfur (Lignite)	33.42	26.69	28.16	26.67	22.02	22.12	21.63	25.02	19.50	18.52	18.47	18.91	18.70
High Sulfur (Lignite)	15.20	22.33	25.30	26.56	27.89	28.66	30.09	31.59	31.59	32.21	32.05	31.40	31.40
Dakota Medium Sulfur (Lignite)	30.82	31.13	30.18	30.58	31.12	31.62	32.19	32.29	32.28	32.35	32.38	29.29	29.48
Powder/Green River	407.55	410.22	432.08	440.15	459.15	474.64	484.41	478.23	505.45	511.07	518.63	539.74	554.96
Low Sulfur (Bituminous)	0.00	0.00	0.10	0.10	0.10	0.72	0.72	0.70	1.05	0.99	1.04	1.10	1.15
Low Sulfur (Sub-Bituminous)	375.08	372.06	399.47	401.92	418.85	430.96	438.55	433.71	457.78	463.40	471.08	492.24	510.28
Medium Sulfur (Sub-Bituminous)	32.47	38.16	32.51	38.14	40.20	42.96	45.13	43.82	46.63	46.67	46.50	46.41	43.54
Rocky Mountain	60.34	60.41	53.54	53.10	53.58	53.80	56.94	60.27	62.99	62.53	64.07	71.38	73.71
Low Sulfur (Bituminous)	50.51	50.37	46.24	46.09	47.21	47.96	51.02	52.03	54.20	54.29	55.83	62.06	63.92
Low Sulfur (Sub-Bituminous)	9.83	10.04	7.31	7.01	6.37	5.84	5.93	8.24	8.79	8.24	8.24	9.32	9.79
Arizona/New Mexico	43.03	41.72	39.23	39.83	40.56	41.37	42.02	42.00	41.92	41.84	42.23	42.26	42.29
Low Sulfur (Bituminous)	20.88	23.02	24.17	22.66	22.66	22.66	22.66	22.66	22.66	22.66	19.55	19.14	18.72
Medium Sulfur (Bituminous)	0.68	1.75	3.29	3.93	4.69	5.47	6.25	6.94	7.63	8.33	8.76	9.20	9.66
Medium Sulfur (Sub-Bituminous)	21.47	16.95	11.77	13.25	13.22	13.24	13.11	12.40	11.63	10.86	13.92	13.92	13.92
Washington/Alaska													
Medium Sulfur (Sub-Bituminous)	6.14	6.97	4.62	4.89	5.07	5.20	5.31	5.31	5.31	5.32	5.32	5.33	5.33

Table 111. Coal Production by Region and Type  
(Million Short Tons)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Subtotals: All Regions													
Premium Metallurgical 1/ Bituminous	49.50	41.40	46.18	44.83	44.40	43.97	43.56	43.13	42.91	42.21	41.66	39.03	38.89
Sub-Bituminous	553.18	526.24	502.23	516.27	521.31	531.72	543.97	552.21	551.36	558.15	557.50	551.38	547.63
Lignite	444.99	444.18	455.67	465.20	483.71	498.20	508.04	503.49	530.14	534.50	545.07	567.21	582.85
	90.64	93.56	95.59	94.51	91.58	94.24	96.79	100.63	95.70	95.35	95.38	92.07	90.81
Low Sulfur	540.47	527.04	536.80	535.75	549.02	568.24	576.49	568.01	596.46	606.21	612.52	642.46	665.12
Medium Sulfur	444.21	422.96	397.40	406.59	419.29	420.95	426.39	436.34	430.90	425.98	427.63	417.12	404.13
High Sulfur	153.63	155.38	165.49	178.47	172.68	178.95	189.47	195.11	192.75	198.01	199.47	190.11	190.93
Underground	380.23	356.86	342.46	355.91	352.12	363.34	372.70	384.77	377.70	388.55	389.22	384.98	383.49
Surface	758.08	748.52	757.22	764.89	788.88	804.80	819.65	814.70	842.41	841.65	850.39	864.71	876.69
U.S. Total	1138.31	1105.38	1099.68	1120.81	1140.99	1168.13	1192.35	1199.46	1220.11	1230.21	1239.61	1249.69	1260.17

Table 111. Coal Production by Region and Type  
(Million Short Tons)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Northern Appalachia	168.45	164.01	171.89	168.93	175.80	179.23	184.85	187.76	191.33	195.40	198.32	201.46	1.6%
Medium Sulfur (Premium) 1/	2.89	2.87	2.85	2.83	2.82	2.89	2.79	2.79	2.78	2.78	2.78	2.79	-0.1%
Low Sulfur (Bituminous) 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	N/A
Medium Sulfur (Bituminous) 2/	79.92	75.47	83.44	79.70	83.30	84.73	87.78	88.12	89.44	90.99	91.46	92.38	1.4%
High Sulfur (Bituminous)	77.59	77.54	77.48	78.43	81.64	83.56	86.07	88.24	90.40	92.84	95.20	97.51	2.2%
High Sulfur (Gob) 3/	8.04	8.12	8.12	7.96	8.04	8.04	8.20	8.62	8.70	8.79	8.88	8.78	-1.0%
Central Appalachia	210.38	218.42	204.10	212.22	212.08	210.52	205.74	207.67	211.24	211.67	209.44	206.30	-0.8%
Medium Sulfur (Premium) 1/	33.07	33.28	33.44	33.29	33.14	32.95	28.98	28.08	27.97	27.86	27.34	23.56	-1.6%
Low Sulfur (Bituminous)	55.20	56.91	55.21	54.29	54.30	52.93	52.13	51.14	52.82	52.80	48.37	52.51	-0.8%
Medium Sulfur (Bituminous)	122.11	128.22	115.45	124.64	124.64	124.64	124.64	128.46	130.45	131.00	133.72	130.23	-0.6%
Southern Appalachia	12.20	12.11	11.61	11.60	11.61	10.85	11.05	10.59	10.88	9.86	10.01	11.04	-2.3%
Low Sulfur (Premium) 1/	2.78	2.43	2.10	2.09	2.08	1.08	1.05	1.03	1.00	0.98	0.96	0.94	-6.7%
Low Sulfur (Bituminous)	2.05	2.14	2.14	2.14	2.12	2.08	2.04	1.64	1.75	1.75	1.79	1.75	-2.4%
Medium Sulfur (Bituminous)	7.38	7.55	7.38	7.38	7.41	7.69	7.96	7.92	8.12	7.13	7.27	8.36	-1.3%
Eastern Interior	111.58	110.31	109.06	107.30	114.41	116.52	120.43	124.48	126.81	127.80	127.07	128.60	1.3%
Medium Sulfur (Bituminous)	34.52	35.36	35.12	34.67	35.70	35.82	36.47	37.70	38.33	39.03	39.82	40.35	0.9%
High Sulfur (Bituminous)	73.09	70.90	70.07	68.76	74.84	77.07	80.33	83.15	84.85	85.49	87.25	88.25	1.6%
Medium Sulfur (Lignite)	3.97	4.05	3.87	3.87	3.87	3.63	3.63	3.63	3.63	3.28	0.00	0.00	N/A
Western Interior High Sulfur (Bituminous)	1.89	1.89	1.87	1.87	1.89	1.90	1.94	1.98	1.98	2.00	1.96	2.12	0.5%
Gulf	49.89	49.68	49.47	49.03	48.58	48.13	47.92	47.75	47.58	47.43	47.33	47.35	-0.2%
Medium Sulfur (Lignite)	18.49	18.29	18.07	17.63	19.13	18.67	18.47	18.29	18.12	17.98	15.93	22.58	-0.7%
High Sulfur (Lignite)	31.40	31.40	31.40	31.40	29.46	29.46	29.46	29.46	29.46	29.46	31.40	24.77	0.5%
Dakota Medium Sulfur (Lignite)	29.72	29.17	29.81	29.18	29.19	29.79	29.80	29.78	29.77	32.40	32.40	32.41	0.2%
Powder/Green River	563.28	573.07	598.41	605.13	603.01	620.88	636.99	653.22	675.71	710.47	730.45	758.80	2.7%
Low Sulfur (Bituminous)	1.21	1.20	1.23	1.25	1.21	1.09	0.01	0.00	0.00	0.93	0.00	0.00	N/A
Low Sulfur (Sub-Bituminous)	523.91	547.08	553.08	562.52	560.44	575.37	590.91	602.55	622.50	653.67	671.79	697.20	2.8%
Medium Sulfur (Sub-Bituminous)	38.15	24.79	44.09	41.36	41.36	44.42	46.07	50.67	53.21	55.87	58.66	61.59	2.1%
Rocky Mountain	75.91	78.40	80.32	86.49	86.18	87.73	91.13	94.21	96.85	99.29	101.84	104.54	2.4%
Low Sulfur (Bituminous)	65.84	67.81	69.85	75.32	75.18	77.80	80.20	82.54	85.02	87.57	90.20	92.90	2.7%
Low Sulfur (Sub-Bituminous)	10.08	10.58	10.48	11.18	11.00	9.93	10.93	11.66	11.83	11.72	11.65	11.64	0.6%
Arizona/New Mexico	42.31	42.29	42.24	42.08	41.98	41.79	41.32	40.61	42.66	45.18	47.34	44.93	0.3%
Low Sulfur (Bituminous)	18.57	18.54	18.49	18.34	18.23	18.04	17.57	16.86	21.52	21.58	22.94	21.52	-0.3%
Medium Sulfur (Bituminous)	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.77	9.69	9.57	9.49	7.6%
Medium Sulfur (Sub-Bituminous)	13.92	13.92	13.92	13.92	13.92	13.92	13.92	13.92	11.37	13.92	14.84	13.92	-0.9%
Washington/Alaska													
Medium Sulfur (Sub-Bituminous)	5.33	5.33	5.34	5.34	5.35	5.35	5.35	5.35	5.36	5.36	5.36	5.37	-1.1%

Table 111. Coal Production by Region and Type  
(Million Short Tons)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Subtotals: All Regions													
Premium Metallurgical 1/ Bituminous	38.74	38.59	38.39	38.21	38.04	36.93	32.82	31.89	31.75	31.62	31.09	27.29	-1.8%
Sub-Bituminous	549.18	553.36	547.55	556.60	570.28	577.18	586.96	597.57	614.45	622.79	629.54	637.37	0.8%
Lignite	591.40	601.71	626.91	634.32	632.06	648.99	667.18	684.16	704.26	740.54	762.29	789.72	2.5%
	91.63	91.03	91.28	90.04	89.69	89.59	89.55	89.77	89.69	91.90	88.61	88.55	-0.2%
Low Sulfur	679.63	706.70	712.58	727.12	724.56	738.32	754.84	767.42	796.45	831.01	847.69	878.47	2.2%
Medium Sulfur	399.31	388.13	402.60	403.63	409.65	414.34	415.68	424.52	428.31	437.28	439.15	443.02	0.2%
High Sulfur	192.01	189.85	188.94	188.42	195.86	200.03	206.00	211.44	215.40	218.58	224.69	221.43	1.6%
Underground	391.03	390.40	398.93	400.98	408.60	412.80	416.40	426.51	436.40	445.24	451.85	454.93	1.1%
Surface	879.91	894.27	905.19	918.19	921.47	939.89	960.12	976.88	1003.76	1041.61	1059.69	1087.99	1.6%
U.S. Total	1270.94	1284.68	1304.12	1319.17	1330.07	1352.69	1376.52	1403.39	1440.16	1486.86	1511.53	1542.92	1.5%



Table 111. Coal Production by Region and Type  
(Million Short Tons)

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal production tables. The totals for this table include this waste coal tonnage.

Northern Appalachia: Pennsylvania, Maryland, Ohio, Northern West Virginia (Pennsylvania anthracite is included under low and medium sulfur bituminous).

Central Appalachia: Southern West Virginia, Virginia, Eastern Kentucky, Northern Tennessee.

Southern Appalachia: Alabama, Southern Tennessee.

Eastern Interior: Illinois, Indiana, Mississippi, Western Kentucky.

Western Interior (Bituminous Only): Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas.

Gulf (Lignite Only): Texas, Louisiana, Arkansas.

Dakota: North Dakota, Eastern Montana (Lignite Only).

Powder/Green River: Wyoming, Montana (Sub-Bituminous and Bituminous)

Rocky Mountains: 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, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 112. Coal Prices by Region and Type  
(2002 Dollars per Short Ton)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Northern Appalachia	24.93	23.86	25.82	26.42	25.55	24.82	24.96	25.62	25.34	25.34	25.15	24.91	24.69
Medium Sulfur (Premium) 1/	35.60	32.16	31.50	31.29	30.91	30.50	30.12	29.91	29.82	29.62	29.46	29.47	29.10
Low Sulfur (Bituminous) 2/	47.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Medium Sulfur (Bituminous) 2/	26.46	25.97	27.35	27.39	27.00	26.66	26.55	27.23	27.17	27.10	27.01	26.92	26.53
High Sulfur (Bituminous)	24.43	23.40	25.73	26.85	25.20	24.17	24.73	25.21	24.72	24.80	24.46	24.02	23.88
High Sulfur (Gob) 3/	12.48	11.52	11.48	11.08	10.65	10.70	11.25	10.91	10.97	10.91	10.93	10.98	10.66
Central Appalachia	28.48	30.27	30.19	29.81	29.73	29.55	29.46	29.56	29.54	29.46	29.35	29.35	29.30
Medium Sulfur (Premium) 1/	30.42	33.52	34.59	34.67	34.36	34.04	33.78	33.83	33.89	33.82	33.53	33.41	33.21
Low Sulfur (Bituminous)	28.30	30.85	29.90	29.67	29.31	29.00	28.87	28.85	28.90	28.70	28.78	29.16	29.49
Medium Sulfur (Bituminous)	28.08	29.29	29.04	28.54	28.72	28.61	28.58	28.74	28.66	28.63	28.50	28.36	28.14
Southern Appalachia	W	34.60	35.25	34.51	34.15	33.70	33.55	33.68	32.06	31.79	31.47	29.96	30.21
Low Sulfur (Premium) 1/	W	38.41	39.43	38.51	38.08	37.88	37.73	37.78	37.81	37.55	37.20	37.11	37.07
Low Sulfur (Bituminous)	W	35.59	35.32	34.50	33.69	32.74	31.27	31.71	30.09	29.44	28.67	29.21	29.81
Medium Sulfur (Bituminous)	W	32.80	32.00	31.46	30.90	30.18	29.77	29.19	28.23	27.93	27.77	27.60	27.44
Eastern Interior	W	W	22.93	23.01	22.61	22.80	23.53	23.90	23.75	23.73	23.61	23.20	23.01
Medium Sulfur (Bituminous)	W	W	23.14	22.87	22.64	22.61	23.22	23.50	23.58	23.48	23.49	23.27	23.11
High Sulfur (Bituminous)	W	W	23.23	23.44	22.99	23.26	24.08	24.49	24.24	24.25	24.08	23.59	23.37
Medium Sulfur (Lignite)	W	W	14.94	14.09	15.07	15.12	15.35	15.48	15.52	15.47	15.47	15.45	15.47
Western Interior High Sulfur (Bituminous)	W	W	27.52	27.60	27.79	27.69	27.39	27.45	29.28	29.21	29.17	28.66	28.32
Gulf	W	W	16.69	16.45	15.86	15.62	15.51	15.58	15.51	15.48	15.45	15.46	15.43
Medium Sulfur (Lignite)	W	W	17.14	16.91	16.42	16.20	16.10	16.14	16.14	16.11	16.09	16.12	16.12
High Sulfur (Lignite)	W	W	16.18	15.99	15.42	15.17	15.09	15.13	15.13	15.11	15.08	15.06	15.01
Dakota Medium Sulfur (Lignite)	8.63	8.50	8.42	8.36	8.30	8.27	8.35	8.39	8.38	8.41	8.38	8.25	8.20
Powder/Green River	6.17	6.76	7.14	6.85	6.77	6.75	6.73	6.64	6.73	6.69	6.73	6.96	7.12
Low Sulfur (Bituminous)	0.00	0.00	26.05	26.08	26.20	20.39	18.68	18.28	24.81	24.84	24.80	24.78	24.89
Low Sulfur (Sub-Bituminous)	6.04	6.66	7.09	6.78	6.69	6.64	6.56	6.51	6.57	6.55	6.60	6.86	7.04
Medium Sulfur (Sub-Bituminous)	7.66	7.78	7.59	7.50	7.55	7.68	8.21	7.82	7.92	7.77	7.70	7.66	7.58
Rocky Mountain	18.65	18.35	17.32	17.15	16.93	16.66	16.59	16.67	17.01	16.83	16.97	17.79	18.36
Low Sulfur (Bituminous)	18.17	17.94	16.98	16.82	16.62	16.37	16.35	16.40	16.74	16.57	16.72	17.56	18.14
Low Sulfur (Sub-Bituminous)	21.11	20.42	19.48	19.34	19.18	19.08	18.71	18.40	18.67	18.53	18.64	19.31	19.80
Arizona/New Mexico	W	W	23.52	22.76	22.47	22.24	22.16	22.35	22.99	23.29	25.39	26.83	27.69
Low Sulfur (Bituminous)	W	W	25.43	24.86	24.67	24.50	24.37	24.42	24.48	24.46	24.29	24.22	24.20
Medium Sulfur (Bituminous)	W	W	20.21	19.93	19.59	19.36	19.69	20.58	23.76	24.97	37.27	43.56	46.51
Medium Sulfur (Sub-Bituminous)	W	W	20.50	20.01	19.74	19.58	19.50	19.54	19.60	19.58	19.44	19.37	19.33
Washington/Alaska													
Medium Sulfur (Sub-Bituminous)	W	W	22.05	21.62	21.43	21.32	21.27	21.31	21.38	21.39	21.32	21.23	21.06

Table 112. Coal Prices by Region and Type  
(2002 Dollars per Short Ton)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average by Type: All Regions													
Premium Metallurgical 1/ Bituminous	31.85	33.97	34.94	34.86	34.53	34.22	33.97	34.00	34.04	33.94	33.65	33.37	33.21
Sub-Bituminous	25.47	26.04	26.06	26.01	25.64	25.34	25.39	25.65	25.56	25.52	25.57	25.55	25.50
Lignite	7.57	7.90	7.83	7.56	7.43	7.37	7.34	7.29	7.32	7.25	7.35	7.57	7.72
	13.40	12.42	13.54	13.31	12.86	12.70	12.71	12.89	12.70	12.67	12.64	12.75	12.70
Low Sulfur	11.74	12.17	11.59	11.16	10.74	10.77	10.58	10.39	10.40	10.45	10.40	10.69	10.92
Medium Sulfur	23.84	24.00	24.17	23.73	23.71	23.35	23.27	23.52	23.50	23.43	23.52	23.59	23.48
High Sulfur	21.60	20.72	22.58	23.24	22.21	21.77	22.31	22.73	22.40	22.46	22.27	21.83	21.77
U.S. Average	17.79	17.90	17.79	17.64	17.24	16.99	16.98	17.17	16.93	16.88	16.84	16.69	16.59

Table 112. Coal Prices by Region and Type  
(2002 Dollars per Short Ton)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Northern Appalachia	24.35	24.08	24.19	24.07	24.38	24.48	24.84	25.01	25.09	25.21	25.28	25.30	0.3%
Medium Sulfur (Premium) 1/	28.94	28.83	28.78	28.66	28.59	28.46	28.41	28.37	28.27	28.15	28.12	28.06	-0.6%
Low Sulfur (Bituminous) 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	N/A
Medium Sulfur (Bituminous) 2/	26.18	25.80	25.90	25.79	25.77	25.79	26.11	26.25	26.32	26.41	26.45	26.47	0.1%
High Sulfur (Bituminous)	23.72	23.63	23.58	23.52	24.17	24.34	24.76	25.01	25.11	25.24	25.34	25.35	0.3%
High Sulfur (Gob) 3/	10.65	10.70	10.76	10.69	10.69	10.69	10.79	11.10	11.27	11.43	11.59	11.57	0.0%
Central Appalachia	29.26	29.42	29.48	29.23	29.20	29.05	28.92	29.10	29.22	29.31	29.43	29.37	-0.1%
Medium Sulfur (Premium) 1/	33.34	33.39	33.44	33.44	33.50	33.35	32.87	32.70	32.29	32.15	32.18	32.16	-0.2%
Low Sulfur (Bituminous)	29.68	29.99	29.97	29.66	29.61	29.46	29.41	29.43	29.51	29.57	29.62	29.61	-0.2%
Medium Sulfur (Bituminous)	27.97	28.13	28.10	27.91	27.88	27.74	27.80	28.19	28.44	28.60	28.81	28.78	-0.1%
Southern Appalachia	30.07	30.03	29.78	29.69	29.78	28.97	29.06	28.99	29.06	29.16	29.08	29.65	-0.7%
Low Sulfur (Premium) 1/	37.07	37.04	37.04	36.98	37.02	36.88	36.90	36.86	36.79	36.74	36.80	36.78	-0.2%
Low Sulfur (Bituminous)	30.18	30.89	30.71	30.55	30.50	30.21	29.96	28.78	28.82	28.88	29.01	28.96	-0.9%
Medium Sulfur (Bituminous)	27.40	27.53	27.44	27.37	27.54	27.53	27.80	28.01	28.15	28.19	28.08	28.99	-0.5%
Eastern Interior	22.93	22.90	22.88	22.84	23.18	23.29	23.68	24.13	24.41	24.54	24.89	24.89	0.4%
Medium Sulfur (Bituminous)	23.07	23.16	23.14	23.10	23.18	23.16	23.37	23.77	24.06	24.21	24.36	24.40	0.1%
High Sulfur (Bituminous)	23.26	23.19	23.17	23.12	23.58	23.73	24.20	24.69	24.98	25.07	25.13	25.12	0.5%
Medium Sulfur (Lignite)	15.48	15.59	15.51	15.43	15.40	15.27	15.21	15.09	15.03	14.90	0.00	0.00	N/A
Western Interior High Sulfur (Bituminous)	28.17	28.10	28.05	27.97	28.24	28.31	28.71	29.11	29.35	29.54	29.51	30.77	0.4%
Gulf	15.42	15.42	15.44	15.42	15.31	15.23	15.25	15.30	15.30	15.30	15.32	15.25	0.1%
Medium Sulfur (Lignite)	16.13	16.15	16.17	16.14	15.99	15.90	15.90	15.91	15.90	15.88	15.92	15.72	-0.3%
High Sulfur (Lignite)	15.00	14.99	15.03	15.02	14.87	14.81	14.85	14.92	14.94	14.94	15.02	14.83	0.6%
Dakota Medium Sulfur (Lignite)	8.17	8.03	8.09	8.11	8.13	8.12	8.13	8.14	8.14	8.26	8.30	8.35	-0.1%
Powder/Green River	7.24	7.33	7.37	7.32	7.31	7.33	7.37	7.44	7.58	7.87	8.07	8.21	0.8%
Low Sulfur (Bituminous)	24.91	24.86	24.74	24.46	24.41	24.16	23.98	0.00	0.00	23.85	0.00	0.00	N/A
Low Sulfur (Sub-Bituminous)	7.19	7.29	7.33	7.28	7.27	7.29	7.35	7.40	7.53	7.80	8.00	8.15	0.9%
Medium Sulfur (Sub-Bituminous)	7.47	7.41	7.39	7.35	7.33	7.40	7.54	7.90	8.17	8.50	8.83	8.92	0.6%
Rocky Mountain	18.77	19.53	19.53	22.01	20.22	19.63	22.23	22.85	23.48	23.67	23.87	23.91	1.2%
Low Sulfur (Bituminous)	18.56	19.33	19.35	22.09	20.06	19.49	22.42	23.07	23.74	23.94	24.16	24.19	1.3%
Low Sulfur (Sub-Bituminous)	20.14	20.79	20.76	21.49	21.33	20.76	20.83	21.30	21.62	21.60	21.66	21.66	0.3%
Arizona/New Mexico	24.48	23.54	22.51	22.01	21.90	21.74	21.70	21.66	21.85	21.80	21.93	21.89	-0.3%
Low Sulfur (Bituminous)	24.20	24.15	24.15	24.10	24.19	24.10	24.09	24.10	23.86	24.01	24.17	24.17	-0.1%
Medium Sulfur (Bituminous)	32.30	28.40	23.95	21.98	21.23	20.83	20.75	20.62	20.47	20.31	20.22	20.08	-0.3%
Medium Sulfur (Sub-Bituminous)	19.33	19.28	19.30	19.29	19.37	19.32	19.36	19.43	19.24	19.41	19.59	19.61	-0.4%
Washington/Alaska													
Medium Sulfur (Sub-Bituminous)	21.08	21.08	21.09	21.09	21.14	21.11	21.11	21.13	21.13	21.13	21.17	21.19	-0.5%

Table 112. Coal Prices by Region and Type  
(2002 Dollars per Short Ton)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Average by Type: All Regions													
Premium Metallurgical 1/ Bituminous	33.28	33.28	33.29	33.28	33.33	33.07	32.62	32.46	32.08	31.94	31.96	31.90	-0.3%
Sub-Bituminous	25.16	25.21	25.03	25.24	25.08	24.96	25.52	25.83	26.05	26.15	26.24	26.26	0.0%
Lignite	7.84	7.93	7.94	7.92	7.90	7.88	7.95	8.03	8.11	8.38	8.59	8.70	0.4%
Low Sulfur	12.65	12.64	12.63	12.64	12.56	12.46	12.47	12.52	12.52	12.43	12.38	12.36	0.0%
Medium Sulfur	10.99	11.12	11.08	11.31	11.09	10.89	11.16	11.22	11.45	11.59	11.66	11.77	-0.1%
High Sulfur	23.24	23.73	22.74	22.83	22.80	22.63	22.58	22.67	22.76	22.70	22.87	22.59	-0.3%
U.S. Average	21.61	21.53	21.50	21.46	22.03	22.19	22.60	22.95	23.15	23.27	23.31	23.58	0.6%
	16.45	16.47	16.19	16.29	16.31	16.16	16.32	16.45	16.56	16.58	16.65	16.57	-0.3%

Table 112. Coal Prices by Region and Type  
(2002 Dollars per Short Ton)

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal tables. The averages for this table include this waste coal tonnage in the forecast years.

Northern Appalachia: Pennsylvania, Maryland, Ohio, Northern West Virginia (Pennsylvania anthracite is included under low and medium sulfur bituminous).

Central Appalachia: Southern West Virginia, Virginia, Eastern Kentucky, Northern Tennessee.

Southern Appalachia: Alabama, Southern Tennessee.

Eastern Interior: Illinois, Indiana, Mississippi, Western Kentucky.

Western Interior (Bituminous Only): Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas.

Gulf (Lignite Only): Texas, Louisiana, Arkansas.

Dakota: North Dakota, Eastern Montana (Lignite Only).

Powder/Green River: Wyoming, Montana (Sub-Bituminous and Bituminous)

Rocky Mountains: 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, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 113. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/  
(Million Short Tons)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Steam Coal Exports to Europe 3/</b>													
Australia	9.5	11.5	10.7	10.7	10.1	10.2	10.4	10.5	10.7	10.8	10.7	10.5	10.4
United States	6.4	4.2	2.6	3.4	3.3	2.7	2.1	1.5	1.2	0.2	0.0	0.0	0.0
South Africa	62.4	64.3	67.6	68.1	68.4	69.4	70.5	71.5	72.6	76.3	76.3	76.0	75.6
Former Soviet Union	18.5	20.2	22.3	20.1	20.4	24.2	24.5	24.8	25.1	25.4	25.6	25.8	26.0
Poland	18.1	18.4	15.5	13.8	12.1	11.5	10.9	10.3	9.7	9.1	8.7	8.2	7.7
Canada	0.0	0.2	3.2	3.5	3.7	4.2	4.6	5.1	5.5	1.5	1.5	1.5	1.5
China	5.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	29.5	29.2	32.0	34.2	36.5	37.8	39.1	40.4	41.7	43.0	43.7	44.5	45.2
Indonesia 4/	12.0	12.5	11.2	11.9	12.2	9.0	9.3	9.7	9.7	12.3	10.7	9.1	7.5
Total	161.8	162.4	165.0	165.8	166.7	169.1	171.5	173.8	176.1	178.7	177.1	175.5	173.9
<b>Steam Coal Exports to Asia</b>													
Australia	85.2	94.7	104.5	103.0	101.0	101.1	104.8	108.7	112.2	121.0	120.2	119.2	119.0
United States	2.8	1.6	0.1	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
South Africa	8.5	8.2	4.9	5.6	6.7	6.7	6.6	6.3	6.0	3.0	4.3	5.9	6.5
Former Soviet Union	7.1	10.6	10.1	10.4	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.9	11.0
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	2.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	80.4	72.0	76.3	83.3	90.4	95.0	99.7	104.3	108.9	113.5	114.4	115.3	116.2
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
Indonesia 4/	49.5	60.3	61.1	63.6	66.7	70.5	70.9	71.2	72.0	70.0	72.9	75.8	78.6
Total	235.8	249.3	256.9	266.4	275.9	284.6	293.2	301.7	310.3	318.8	323.1	327.4	331.7
<b>Steam Coal Exports to America</b>													
Australia	2.0	3.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	1.4	1.6	1.7
United States	14.0	12.9	15.8	15.6	14.6	14.5	14.4	13.9	13.8	13.3	12.5	12.3	11.3
South Africa	2.1	0.7	2.9	2.9	3.0	2.9	2.9	3.2	3.4	3.6	3.6	3.5	4.3
Former Soviet Union	0.0	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	0.6	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	1.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	1.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	20.4	18.4	29.6	31.9	34.2	35.4	36.7	37.9	39.1	40.4	41.9	43.4	44.9
Indonesia 4/	2.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	44.3	43.0	48.8	51.1	52.6	53.7	54.8	55.9	57.2	58.1	59.4	60.8	62.1
<b>Total Steam Coal Exports 5/</b>													
Australia	97.1	110.1	115.8	114.4	112.0	112.2	116.0	120.1	123.8	132.7	132.3	131.3	131.0
United States	23.3	18.8	18.4	19.4	18.3	17.7	17.0	15.9	15.4	14.0	12.9	12.8	11.7
South Africa	74.7	75.0	75.4	76.7	78.0	79.0	80.0	81.0	82.0	83.0	84.2	85.3	86.4
Former Soviet Union	25.8	30.8	32.3	30.5	31.0	34.9	35.2	35.5	35.8	36.0	36.4	36.7	37.0
Poland	18.7	18.7	15.5	13.8	12.1	11.5	10.9	10.3	9.7	9.1	8.7	8.2	7.7
Canada	3.5	3.7	3.2	3.5	3.7	4.2	4.6	5.1	5.5	1.5	1.5	1.5	1.5
China	87.5	77.7	76.3	83.3	90.4	95.0	99.7	104.3	108.9	113.5	114.4	115.3	116.2
South America	49.8	47.5	61.5	66.1	70.7	73.2	75.7	78.3	80.8	83.3	85.6	87.8	90.1
Indonesia 4/	63.8	75.2	72.3	75.6	78.9	79.6	80.3	81.0	81.6	82.3	83.6	84.8	86.1
Total	444.3	457.4	470.8	483.4	495.2	507.4	519.4	531.4	543.6	555.6	559.6	563.8	567.8

Table 113. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/  
(Million Short Tons)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Steam Coal Exports to Europe 3/</b>													
Australia	10.3	10.1	10.0	9.9	7.9	5.8	3.7	1.6	1.3	1.0	0.0	0.0	N/A
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South Africa	75.3	75.0	74.7	74.4	74.1	73.8	73.5	73.5	71.7	69.8	68.7	66.5	0.1%
Former Soviet Union	26.2	26.5	26.7	26.9	27.1	27.3	27.6	27.8	28.0	28.2	28.4	28.7	1.5%
Poland	7.2	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.1	4.9	4.6	4.4	-6.0%
Canada	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	9.1%
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	N/A
South America	45.9	46.7	48.0	49.4	50.7	52.1	53.5	54.9	56.4	57.9	59.4	60.8	3.2%
Indonesia 4/	5.8	4.2	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	172.3	170.7	169.6	168.5	167.4	166.3	165.3	164.6	164.0	163.3	162.7	162.0	0.0%
<b>Steam Coal Exports to Asia</b>													
Australia	117.8	116.6	118.8	121.0	125.2	129.5	133.8	136.6	137.8	138.8	140.6	142.4	1.8%
United States	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-5.5%
South Africa	8.2	9.8	10.2	10.6	10.9	11.3	11.6	11.7	13.5	15.3	16.5	17.6	3.4%
Former Soviet Union	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	11.9	12.0	12.1	12.1	0.6%
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	N/A
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	N/A
China	117.1	118.0	118.6	119.3	119.9	120.6	121.3	121.3	121.3	121.3	121.3	121.3	2.3%
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	N/A
Indonesia 4/	81.5	84.3	87.2	90.1	91.0	91.8	92.6	93.5	94.4	95.3	96.2	97.1	2.1%
Total	336.1	340.4	346.7	352.9	359.1	365.3	371.5	375.4	379.3	383.2	387.0	390.9	2.0%
<b>Steam Coal Exports to America</b>													
Australia	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	-2.8%
United States	11.3	11.4	11.4	11.2	11.1	10.9	10.7	10.7	11.0	10.9	10.9	10.0	-1.1%
South Africa	4.1	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.8	8.8%
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
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	N/A
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	N/A
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	N/A
South America	46.4	47.9	48.8	49.7	50.7	51.6	52.5	53.4	54.4	55.3	56.3	57.2	5.1%
Indonesia 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	N/A
Total	63.6	65.0	65.8	66.6	67.3	68.1	68.8	69.7	70.9	71.9	72.8	73.8	2.4%
<b>Total Steam Coal Exports 5/</b>													
Australia	129.8	128.5	130.6	132.7	134.9	137.1	139.2	140.0	140.8	141.6	142.4	144.2	1.2%
United States	11.8	11.8	11.8	11.6	11.5	11.3	11.2	11.1	11.4	11.4	11.4	10.4	-2.5%
South Africa	87.6	88.7	88.8	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	0.7%
Former Soviet Union	37.4	37.7	38.0	38.4	38.7	39.0	39.4	39.6	39.9	40.2	40.5	40.8	1.2%
Poland	7.2	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.1	4.9	4.6	4.4	-6.1%
Canada	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-3.8%
China	117.1	118.0	118.6	119.3	119.9	120.6	121.3	121.3	121.3	121.3	121.3	121.3	2.0%
South America	92.3	94.6	96.9	99.1	101.4	103.7	105.9	108.4	110.8	113.2	115.6	118.1	4.0%
Indonesia 4/	87.3	88.5	89.4	90.2	91.0	91.8	92.6	93.5	94.4	95.3	96.2	97.1	1.1%
Total	572.0	576.1	582.1	588.0	593.8	599.7	605.6	609.7	614.2	618.3	622.5	626.7	1.4%



Table 113. World Steam 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/ In 2002, steam coal exports from Indonesia include an additional 7.4 million short tons of exports from other countries not included in the forecast period.

5/ In 2002, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2002, the balancing item for steam coal amounted to 2.7 million short tons.

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

Sources: 2002 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 12, No. 3 (London, United Kingdom, June 2003); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2002, DOE/EIA-0121(2002/4Q) (Washington, DC, March 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/  
(Million Short Tons)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Metallurgical Coal Exports to Europe 3/</b>													
Australia	31.4	29.5	29.8	33.6	33.8	33.7	33.6	33.6	33.5	33.5	33.3	33.1	32.9
United States	15.7	12.4	12.9	10.0	10.4	10.3	10.2	10.1	9.9	9.8	9.8	9.7	9.6
South Africa	0.7	0.6	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Former Soviet Union	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Poland	2.1	2.3	1.9	1.6	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1
Canada	7.3	7.3	12.2	12.0	11.8	11.9	12.1	12.2	12.3	12.4	12.4	12.3	12.3
China	0.3	0.3	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
Indonesia 4/	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
Total	58.2	53.0	59.1	59.4	59.4	59.3	59.2	59.1	59.1	59.0	58.7	58.3	58.0
<b>Metallurgical Coal Exports to Asia 5/</b>													
Australia	78.9	79.7	83.4	83.6	83.9	83.9	83.9	83.9	83.9	83.9	84.4	84.8	85.2
United States	0.4	0.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3
South Africa	0.1	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
Former Soviet Union	2.8	3.1	3.7	3.7	3.7	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.4
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	16.6	14.9	7.6	7.3	7.2	7.1	7.0	6.9	6.8	6.8	6.8	6.8	6.8
China	11.6	12.7	16.1	16.1	16.0	16.0	15.9	15.9	15.8	15.8	15.8	15.9	15.9
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
Indonesia 4/	13.0	14.3	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
Total	123.4	124.7	125.1	125.2	125.3	125.3	125.3	125.3	125.3	125.3	125.8	126.3	126.8
<b>Metallurgical Coal Exports to America</b>													
Australia	6.6	5.8	8.1	8.4	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.9	10.0
United States	9.3	8.4	9.7	10.9	10.4	10.3	10.3	10.2	10.2	10.0	10.0	7.9	8.3
South Africa	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Former Soviet Union	0.0	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	5.1	3.6	6.4	5.4	6.3	6.7	7.1	7.6	8.0	8.6	8.8	11.4	11.3
China	0.8	1.7	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
Indonesia 4/	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
Total	22.1	20.5	24.2	24.7	25.2	25.8	26.4	26.9	27.5	28.1	28.5	29.2	29.5
<b>Total Metallurgical Coal Exports 6/</b>													
Australia	117.1	115.0	121.3	125.6	126.3	126.4	126.5	126.7	126.8	127.0	127.4	127.7	128.1
United States	25.4	20.8	23.7	22.0	21.9	21.8	21.6	21.5	21.4	21.1	21.0	18.9	19.2
South Africa	1.5	1.3	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Former Soviet Union	3.6	3.7	4.4	4.5	4.5	4.6	4.7	4.9	5.0	5.1	5.1	5.2	5.2
Poland	2.1	2.6	1.9	1.6	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1
Canada	30.1	25.8	26.2	24.7	25.2	25.7	26.2	26.7	27.2	27.8	28.0	30.5	30.3
China	12.7	14.6	16.1	16.1	16.0	16.0	15.9	15.9	15.8	15.8	15.8	15.9	15.9
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
Indonesia 4/	13.1	14.6	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
Total	205.7	198.5	208.4	209.3	209.9	210.4	210.9	211.4	211.9	212.4	213.0	213.8	214.4

Table 114. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/  
(Million Short Tons)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
<b>Metallurgical Coal Exports to Europe 3/</b>													
Australia	32.7	32.5	32.4	32.3	32.2	32.1	32.0	32.1	32.1	32.0	32.5	32.4	0.4%
United States	9.5	9.4	9.3	9.1	9.0	8.8	8.7	8.2	8.4	8.6	8.5	6.7	-2.7%
South Africa	1.3	1.3	1.2	1.1	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	1.1%
Former Soviet Union	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%
Poland	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	-6.0%
Canada	12.2	12.2	12.1	12.1	12.1	12.0	9.3	9.1	8.8	8.6	8.3	8.7	0.8%
China	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.4	3.4	3.4	3.4	5.3	13.3%
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	N/A
Indonesia 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	N/A
Total	57.7	57.3	56.9	56.5	56.1	55.7	55.4	55.3	55.2	55.1	55.0	55.1	0.2%
<b>Metallurgical Coal Exports to Asia 5/</b>													
Australia	85.6	86.0	86.3	86.6	86.9	87.2	87.6	88.1	88.7	89.2	89.8	90.3	0.5%
United States	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	0.0	N/A
South Africa	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	N/A
Former Soviet Union	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.9	4.9	5.0	2.1%
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	N/A
Canada	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.5	-2.4%
China	15.9	16.0	16.0	16.0	16.0	16.1	16.1	16.1	16.2	16.2	16.3	16.3	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	N/A
Indonesia 4/	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	-0.4%
Total	127.4	127.9	128.3	128.7	129.1	129.5	129.9	130.6	131.2	131.9	132.5	133.3	0.3%
<b>Metallurgical Coal Exports to America</b>													
Australia	10.2	10.3	10.4	10.6	10.7	12.9	13.6	13.7	13.7	13.7	13.8	13.8	3.8%
United States	8.6	9.0	9.4	9.8	10.2	8.7	6.1	6.1	6.0	6.1	6.0	5.9	-1.5%
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	N/A
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
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	N/A
Canada	11.1	10.9	10.7	10.5	10.4	10.2	12.7	12.7	12.8	12.7	12.8	10.5	4.8%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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	N/A
Indonesia 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	N/A
Total	29.9	30.3	30.6	30.9	31.2	31.8	32.4	32.5	32.5	32.5	32.5	32.6	2.0%
<b>Total Metallurgical Coal Exports 6/</b>													
Australia	128.5	128.9	129.2	129.5	129.8	132.2	133.2	133.9	134.5	135.0	136.0	136.5	0.8%
United States	19.5	19.8	20.1	20.3	20.6	19.0	16.2	15.7	15.9	16.2	16.0	12.6	-2.2%
South Africa	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.1	-0.7%
Former Soviet Union	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.6	5.7	5.7	1.9%
Poland	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	-6.6%
Canada	30.1	29.9	29.7	29.4	29.2	29.0	28.8	28.6	28.3	28.1	27.9	27.7	0.3%
China	15.9	16.0	16.0	16.0	16.0	16.1	18.8	19.5	19.6	19.6	19.7	23.9	2.2%
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	N/A
Indonesia 4/	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	-0.5%
Total	214.9	215.5	215.8	216.2	216.5	217.1	217.8	218.4	218.9	219.4	220.0	221.0	0.5%

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/ In 2002, metallurgical coal exports from Indonesia include an additional 1.7 million short tons of exports from other countries not included in the forecast period.

5/ For 2002, includes 12.9 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.

6/ In 2002, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2002, the balancing item for metallurgical coal amounted to 0.3 million short tons.

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

Sources: 2002 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 12, No. 3 (London, United Kingdom, June 2003); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2002, DOE/EIA-0121(2002/4Q) (Washington, DC, March 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/  
(Million Short Tons)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Total Coal Exports to Europe 3/</b>													
Australia	40.9	41.0	40.5	44.3	43.9	44.0	44.0	44.1	44.2	44.3	44.0	43.6	43.3
United States	22.1	16.6	15.5	13.4	13.7	13.0	12.3	11.5	11.1	10.1	9.8	9.7	9.6
South Africa	63.1	64.9	69.0	69.5	69.7	70.8	71.8	72.9	73.9	77.7	77.6	77.3	77.0
Former Soviet Union	19.2	20.8	23.1	20.9	21.1	25.0	25.3	25.6	25.8	26.1	26.3	26.6	26.8
Poland	20.2	20.7	17.5	15.5	13.4	12.8	12.2	11.5	10.9	10.3	9.8	9.3	8.8
Canada	7.3	7.5	15.4	15.5	15.6	16.1	16.7	17.3	17.8	14.0	13.9	13.9	13.8
China	5.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	29.5	29.2	32.0	34.2	36.5	37.8	39.1	40.4	41.7	43.0	43.7	44.5	45.2
Indonesia 4/	12.1	12.6	11.2	11.9	12.2	9.0	9.3	9.7	9.7	12.3	10.7	9.1	7.5
Total	220.0	215.4	224.1	225.2	226.1	228.4	230.7	233.0	235.2	237.7	235.8	233.9	231.9
<b>Total Coal Exports to Asia</b>													
Australia	164.1	174.4	187.9	186.7	184.9	185.1	188.7	192.7	196.2	204.9	204.6	203.9	204.2
United States	3.2	1.6	1.2	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.7	1.7	1.8
South Africa	8.6	8.2	5.3	6.0	7.1	7.1	7.0	6.7	6.4	3.3	4.6	6.2	6.8
Former Soviet Union	9.9	13.7	13.7	14.1	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.3	15.5
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	18.9	16.9	7.6	7.3	7.2	7.1	7.0	6.9	6.8	6.8	6.8	6.8	6.8
China	92.0	84.7	92.4	99.4	106.4	111.0	115.6	120.2	124.7	129.3	130.2	131.2	132.1
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
Indonesia 4/	62.5	74.6	74.0	76.5	79.5	83.4	83.8	84.1	84.9	82.9	85.8	88.7	91.5
Total	359.2	374.0	382.0	391.6	401.2	409.9	418.4	427.0	435.6	444.1	448.9	453.8	458.6
<b>Total Coal Exports to America</b>													
Australia	8.6	9.2	8.7	9.1	9.4	9.6	9.8	10.0	10.2	10.4	11.1	11.5	11.7
United States	23.3	21.3	25.4	26.5	24.9	24.8	24.6	24.1	23.9	23.3	22.5	20.2	19.6
South Africa	2.4	1.3	2.9	2.9	3.0	2.9	2.9	3.2	3.4	3.6	3.6	3.5	4.3
Former Soviet Union	0.0	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	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	6.2	5.1	6.4	5.4	6.3	6.7	7.1	7.6	8.0	8.6	8.8	11.4	11.3
China	2.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	20.4	18.4	29.6	31.9	34.2	35.4	36.7	37.9	39.1	40.4	41.9	43.4	44.9
Indonesia 4/	2.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	66.4	63.5	73.1	75.8	77.8	79.4	81.2	82.8	84.7	86.2	87.9	90.0	91.7
<b>Total Coal Exports 5/</b>													
Australia	214.2	225.0	237.1	240.1	238.2	238.6	242.6	246.8	250.6	259.6	259.7	259.1	259.2
United States	48.7	39.6	42.1	41.4	40.2	39.4	38.6	37.4	36.8	35.1	34.0	31.6	30.9
South Africa	76.2	76.3	77.2	78.5	79.8	80.8	81.8	82.7	83.7	84.7	85.8	87.0	88.1
Former Soviet Union	29.4	34.5	36.8	34.9	35.6	39.5	39.9	40.3	40.7	41.1	41.5	41.9	42.2
Poland	20.8	21.4	17.5	15.5	13.4	12.8	12.2	11.5	10.9	10.3	9.8	9.3	8.8
Canada	33.6	29.6	29.4	28.2	29.0	29.9	30.8	31.8	32.7	29.3	29.5	32.1	31.9
China	100.2	92.3	92.4	99.4	106.4	111.0	115.6	120.2	124.7	129.3	130.2	131.2	132.1
South America	49.8	47.5	61.5	66.1	70.7	73.2	75.7	78.3	80.8	83.3	85.6	87.8	90.1
Indonesia 4/	76.9	89.8	85.2	88.5	91.8	92.5	93.2	93.8	94.5	95.2	96.5	97.7	99.0
Total	650.0	656.0	679.2	692.6	705.1	717.7	730.3	742.8	755.4	768.0	772.6	777.6	782.2

Table 115. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/  
(Million Short Tons)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
<b>Total Coal Exports to Europe 3/</b>													
Australia	43.0	42.6	42.4	42.2	40.1	37.8	35.6	33.7	33.4	33.0	32.5	32.4	-1.0%
United States	9.5	9.4	9.3	9.1	9.0	8.8	8.7	8.2	8.4	8.6	8.5	6.7	-3.9%
South Africa	76.7	76.4	76.0	75.6	75.2	74.8	74.4	74.3	72.5	70.6	69.5	67.3	0.2%
Former Soviet Union	27.0	27.2	27.4	27.7	27.9	28.1	28.3	28.6	28.8	29.0	29.2	29.4	1.5%
Poland	8.3	7.8	7.6	7.3	7.1	6.9	6.6	6.3	6.0	5.6	5.3	5.0	-6.0%
Canada	13.8	13.7	13.7	13.7	13.6	13.6	10.9	10.6	10.4	10.2	9.9	10.2	1.3%
China	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.4	3.4	3.4	3.4	5.3	3.7%
South America	45.9	46.7	48.0	49.4	50.7	52.1	53.5	54.9	56.4	57.9	59.4	60.8	3.2%
Indonesia 4/	5.8	4.2	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	230.0	228.1	226.6	225.0	223.6	222.1	220.7	220.0	219.2	218.4	217.6	217.1	0.0%
<b>Total Coal Exports to Asia</b>													
Australia	203.4	202.7	205.1	207.7	212.2	216.8	221.3	224.8	226.4	228.1	230.4	232.7	1.3%
United States	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	0.4	-5.5%
South Africa	8.5	10.1	10.6	11.0	11.3	11.7	12.1	12.1	13.9	15.7	16.8	17.9	3.5%
Former Soviet Union	15.6	15.8	15.9	16.1	16.2	16.4	16.5	16.6	16.8	16.9	17.0	17.1	1.0%
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	N/A
Canada	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.5	-3.0%
China	133.0	133.9	134.6	135.3	136.0	136.7	137.3	137.4	137.4	137.5	137.5	137.6	2.1%
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	N/A
Indonesia 4/	94.4	97.2	100.1	103.0	103.9	104.7	105.5	106.4	107.3	108.2	109.1	110.0	1.7%
Total	463.4	468.3	475.0	481.6	488.3	494.9	501.5	506.0	510.5	515.0	519.5	524.2	1.5%
<b>Total Coal Exports to America</b>													
Australia	11.9	12.1	12.2	12.3	12.4	14.6	15.4	15.5	15.5	15.5	15.5	15.6	2.3%
United States	20.0	20.4	20.8	21.0	21.2	19.6	16.8	16.7	17.0	17.0	16.9	15.9	-1.3%
South Africa	4.1	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.8	5.9%
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
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	N/A
Canada	11.1	10.9	10.7	10.5	10.4	10.2	12.7	12.7	12.8	12.7	12.8	10.5	3.2%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	-3.6%
South America	46.4	47.9	48.8	49.7	50.7	51.6	52.5	53.4	54.4	55.3	56.3	57.2	5.1%
Indonesia 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	N/A
Total	93.5	95.3	96.4	97.5	98.5	99.8	101.3	102.2	103.4	104.4	105.3	106.4	2.3%
<b>Total Coal Exports 5/</b>													
Australia	258.3	257.4	259.8	262.2	264.7	269.2	272.4	273.9	275.3	276.6	278.4	280.7	1.0%
United States	31.3	31.6	31.9	32.0	32.1	30.3	27.4	26.8	27.3	27.6	27.4	23.0	-2.3%
South Africa	89.2	90.4	90.4	90.4	90.3	90.3	90.3	90.2	90.2	90.2	90.1	90.1	0.7%
Former Soviet Union	42.6	43.0	43.4	43.7	44.1	44.5	44.9	45.2	45.5	45.9	46.2	46.5	1.3%
Poland	8.3	7.8	7.6	7.3	7.1	6.9	6.6	6.3	6.0	5.6	5.3	5.0	-6.2%
Canada	31.6	31.4	31.2	31.0	30.8	30.5	30.3	30.1	29.9	29.7	29.4	29.2	-0.1%
China	133.0	133.9	134.6	135.3	136.0	136.7	140.1	140.8	140.8	140.9	140.9	145.2	2.0%
South America	92.3	94.6	96.9	99.1	101.4	103.7	105.9	108.4	110.8	113.2	115.6	118.1	4.0%
Indonesia 4/	100.2	101.4	102.3	103.1	103.9	104.7	105.5	106.4	107.3	108.2	109.1	110.0	0.9%
Total	786.9	791.6	797.9	804.1	810.3	816.8	823.4	828.1	833.1	837.8	842.5	847.7	1.1%

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/ In 2002, exports from Indonesia include an additional 9.0 million short tons of exports from other countries not included in the forecast period.

5/ In 2002, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2002, the balancing item amounted to 2.8 million short tons.

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

Sources: 2002 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 12, No. 3 (London, United Kingdom, June 2003); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2002, DOE/EIA-0121(2002/4Q) (Washington, DC, March 2003). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 116. Indicators of Macroeconomic Activity

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Value of Shipments, National (billion 1996 dollars)													
Total Industrial	5368	5285	5226	5430	5640	5803	5958	6105	6265	6439	6612	6782	6976
Total Nonmanufacturing	1309	1222	1183	1211	1268	1295	1318	1351	1389	1425	1457	1484	1527
Coal Mining	30	27	26	27	27	28	29	29	29	29	30	30	30
Oil and Gas Extraction	80	79	79	80	82	82	84	85	84	84	85	85	85
Total Manufacturing	4059	4064	4043	4219	4373	4508	4640	4754	4876	5013	5155	5297	5449
Petroleum Refining	167	183	182	185	189	193	197	201	204	207	210	214	219
Paper	154	155	156	162	167	171	174	176	179	183	188	192	197
Chemicals	389	386	395	415	429	441	455	469	479	491	504	516	530
Stone, Clay, and Glass	89	89	90	93	98	100	102	103	104	107	109	111	114
Primary Metals	175	175	170	177	184	189	194	198	200	202	205	207	209
Basic Steel	67	73	73	75	78	79	80	82	83	84	85	86	86
Primary Aluminum	30	30	28	28	28	30	31	32	32	32	32	33	33
Fabricated Metals	218	216	213	223	233	240	243	245	251	259	265	272	281
Industrial Machinery	422	403	407	433	458	479	495	510	525	543	559	577	596
Electrical Machinery	435	399	419	459	489	518	544	574	605	637	669	706	745
Transportation Equipment	527	574	560	583	597	618	649	668	689	708	735	755	775
Other Manufacturing	1483	1483	1452	1491	1528	1559	1586	1611	1640	1676	1711	1747	1783
Employment (million)													
Total Industrial	27.21	26.11	25.35	25.10	25.19	25.38	25.62	25.71	25.75	25.91	26.06	26.15	26.22
Total Nonmanufacturing	9.55	9.43	9.28	9.29	9.32	9.37	9.53	9.66	9.74	9.80	9.87	9.91	9.96
Coal Mining	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
Oil and Gas Extraction	0.34	0.33	0.34	0.35	0.34	0.33	0.32	0.33	0.32	0.32	0.33	0.33	0.34
Total Manufacturing	17.65	16.68	16.07	15.81	15.87	16.00	16.09	16.05	16.01	16.11	16.18	16.24	16.26
Petroleum Refining	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Paper	0.63	0.61	0.61	0.60	0.61	0.62	0.61	0.61	0.60	0.61	0.62	0.61	0.61
Chemicals	1.02	1.01	1.02	1.03	1.02	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.05
Stone, Clay, and Glass	0.57	0.55	0.55	0.54	0.55	0.56	0.57	0.57	0.56	0.56	0.56	0.56	0.56
Primary Metals	0.66	0.59	0.57	0.57	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53
Basic Steel	0.21	0.19	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Primary Aluminum	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
Fabricated Metals	1.48	1.42	1.36	1.33	1.34	1.36	1.37	1.36	1.37	1.38	1.39	1.40	1.40
Industrial Machinery	2.01	1.82	1.76	1.73	1.73	1.74	1.75	1.74	1.74	1.74	1.74	1.74	1.74
Electrical Machinery	1.63	1.42	1.29	1.24	1.28	1.31	1.33	1.35	1.38	1.41	1.44	1.47	1.50
Transportation Equipment	1.61	1.53	1.42	1.37	1.39	1.42	1.46	1.47	1.48	1.50	1.52	1.53	1.55
Other Manufacturing	7.67	7.39	7.16	7.07	7.05	7.08	7.09	7.03	6.97	7.00	7.02	7.02	7.01
Real Disposable Income by Census Division (billion 1996 dollars)													
New England	393	407	417	433	441	451	460	470	481	493	505	518	533
Middle Atlantic	1056	1098	1127	1170	1194	1220	1244	1270	1298	1330	1360	1396	1435
East North Central	1069	1106	1131	1173	1197	1222	1245	1272	1300	1334	1366	1402	1442
West North Central	433	449	460	479	489	501	511	523	536	550	564	580	597
South Atlantic	1216	1272	1316	1380	1423	1470	1515	1565	1618	1678	1735	1801	1872
East South Central	341	354	363	378	387	396	404	414	425	437	448	462	476
West South Central	678	709	733	767	790	814	836	862	889	919	949	983	1019
Mountain	400	422	440	465	483	503	522	543	566	591	615	643	672
Pacific	1162	1215	1255	1313	1351	1391	1427	1468	1512	1562	1609	1663	1721
United States	6748	7032	7244	7557	7755	7968	8164	8388	8625	8894	9150	9448	9768



Table 116. Indicators of Macroeconomic Activity

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Nonfarm Employment by Census Division (millions)													
New England	7.0	6.9	6.9	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.5	7.6
Middle Atlantic	18.1	17.9	17.8	17.9	18.1	18.4	18.6	18.8	18.9	19.1	19.2	19.3	19.4
East North Central	21.9	21.5	21.3	21.5	21.7	22.0	22.3	22.5	22.7	22.9	23.1	23.2	23.4
West North Central	9.8	9.7	9.6	9.7	9.9	10.0	10.1	10.3	10.4	10.5	10.6	10.6	10.7
South Atlantic	24.8	24.6	24.6	25.0	25.6	26.1	26.7	27.2	27.7	28.2	28.7	29.1	29.6
East South Central	7.6	7.5	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.4
West South Central	14.1	14.0	14.0	14.2	14.5	14.8	15.1	15.4	15.6	15.9	16.1	16.3	16.6
Mountain	8.6	8.6	8.7	8.9	9.2	9.5	9.7	10.0	10.3	10.5	10.7	10.9	11.2
Pacific	19.7	19.6	19.6	19.9	20.4	20.8	21.2	21.6	22.0	22.4	22.7	23.0	23.3
United States	131.6	130.5	130.1	131.6	134.1	136.5	138.8	141.1	143.1	145.0	146.8	148.3	150.2

Table 116. Indicators of Macroeconomic Activity

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Value of Shipments, National (billion 1996 dol)													
Total Industrial	7162	7345	7536	7749	7970	8140	8344	8526	8752	8988	9224	9491	2.6%
Total Nonmanufacturing	1561	1585	1605	1628	1664	1679	1710	1730	1763	1798	1825	1855	1.8%
Coal Mining	30	31	31	31	32	32	33	33	34	35	36	36	1.2%
Oil and Gas Extraction	85	85	85	85	87	88	88	87	86	86	88	87	0.4%
Total Manufacturing	5601	5760	5932	6122	6307	6462	6634	6796	6988	7190	7399	7636	2.8%
Petroleum Refining	223	226	228	229	232	234	237	240	242	245	246	248	1.3%
Paper	201	205	208	211	215	217	220	222	225	228	230	233	1.8%
Chemicals	541	553	568	583	598	611	625	636	647	660	672	686	2.5%
Stone, Clay, and Glass	116	118	120	123	125	127	129	131	133	136	138	141	2.0%
Primary Metals	211	213	215	217	221	222	224	226	229	232	235	239	1.4%
Basic Steel	87	88	89	90	91	92	93	94	96	97	99	101	1.4%
Primary Aluminum	33	34	35	35	36	36	37	37	37	38	38	39	1.2%
Fabricated Metals	289	295	302	310	319	324	330	334	341	348	354	361	2.2%
Industrial Machinery	617	639	664	689	716	742	770	799	832	868	906	942	3.8%
Electrical Machinery	787	831	871	915	955	986	1022	1065	1112	1158	1213	1278	5.2%
Transportation Equipment	794	818	854	893	929	961	996	1022	1060	1099	1135	1178	3.2%
Other Manufacturing	1821	1861	1903	1950	1999	2037	2082	2120	2167	2217	2269	2331	2.0%
Employment (million)													
Total Industrial	26.18	26.13	26.09	26.03	26.01	25.92	25.83	25.76	25.74	25.76	25.75	25.76	-0.1%
Total Nonmanufacturing	10.00	9.98	9.97	9.93	9.90	9.84	9.80	9.75	9.71	9.66	9.60	9.53	0.0%
Coal Mining	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%
Oil and Gas Extraction	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.30	0.30	-0.5%
Total Manufacturing	16.18	16.15	16.12	16.10	16.10	16.07	16.03	16.01	16.04	16.10	16.16	16.22	-0.1%
Petroleum Refining	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-1.4%
Paper	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.57	0.57	0.57	0.56	0.56	-0.4%
Chemicals	1.05	1.04	1.04	1.04	1.03	1.03	1.02	1.02	1.02	1.02	1.01	1.01	0.0%
Stone, Clay, and Glass	0.56	0.55	0.55	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	-0.2%
Primary Metals	0.52	0.51	0.50	0.49	0.49	0.48	0.47	0.46	0.46	0.46	0.45	0.45	-1.2%
Basic Steel	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	-0.2%
Primary Aluminum	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-3.1%
Fabricated Metals	1.40	1.40	1.39	1.38	1.38	1.38	1.37	1.36	1.35	1.35	1.35	1.35	-0.2%
Industrial Machinery	1.72	1.72	1.72	1.72	1.73	1.72	1.72	1.72	1.73	1.74	1.76	1.77	-0.1%
Electrical Machinery	1.50	1.51	1.50	1.50	1.50	1.49	1.49	1.48	1.48	1.48	1.48	1.49	0.2%
Transportation Equipment	1.55	1.55	1.55	1.57	1.59	1.61	1.63	1.65	1.67	1.70	1.73	1.76	0.6%
Other Manufacturing	6.98	6.97	6.97	6.96	6.96	6.95	6.93	6.93	6.95	6.98	7.00	7.03	-0.2%
Real Disposable Income by Census Division (billion 1996 dollars)													
New England	545	558	571	584	599	612	627	642	658	675	694	716	2.5%
Middle Atlantic	1466	1498	1530	1561	1595	1629	1664	1699	1738	1780	1827	1880	2.4%
East North Central	1475	1510	1545	1579	1616	1653	1692	1731	1773	1820	1871	1929	2.4%
West North Central	612	628	644	659	676	693	711	728	747	768	792	818	2.6%
South Atlantic	1934	1999	2066	2133	2205	2277	2354	2430	2511	2600	2697	2804	3.5%
East South Central	489	502	516	529	543	558	573	588	604	622	641	663	2.8%
West South Central	1051	1083	1116	1149	1183	1219	1256	1294	1333	1377	1424	1477	3.2%
Mountain	699	728	757	786	818	850	883	917	954	993	1036	1082	4.2%
Pacific	1772	1824	1877	1930	1987	2044	2104	2163	2227	2297	2374	2458	3.1%
United States	10044	10330	10622	10911	11223	11533	11864	12193	12546	12930	13357	13826	3.0%

Table 116. Indicators of Macroeconomic Activity

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Nonfarm Employment by Census Division (millions)													
New England	7.7	7.7	7.7	7.8	7.8	7.9	7.9	8.0	8.0	8.0	8.1	8.1	0.7%
Middle Atlantic	19.5	19.5	19.6	19.7	19.7	19.8	19.9	19.9	19.9	20.0	20.0	20.1	0.5%
East North Central	23.6	23.7	23.9	24.0	24.1	24.3	24.4	24.6	24.7	24.8	25.0	25.1	0.7%
West North Central	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4	11.5	11.5	11.6	0.8%
South Atlantic	30.0	30.4	30.8	31.2	31.6	32.1	32.5	32.9	33.3	33.6	34.0	34.5	1.5%
East South Central	8.5	8.5	8.6	8.7	8.7	8.8	8.9	8.9	9.0	9.1	9.1	9.2	0.9%
West South Central	16.8	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.5	18.7	18.9	19.1	1.4%
Mountain	11.4	11.6	11.9	12.1	12.3	12.6	12.8	13.0	13.3	13.5	13.8	14.0	2.1%
Pacific	23.6	23.9	24.2	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.6	26.9	1.4%
United States	152.0	153.4	154.9	156.4	158.1	159.7	161.2	162.6	164.1	165.5	167.0	168.6	1.1%

Table 116. Indicators of Macroeconomic Activity

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

Source: 2001 and 2002: Global Insight macroeconomic model T250803 and industry model, August 2003, run for the Energy Information Administration (EIA). Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 117. Imported Petroleum by Source  
(Million Barrels per Day)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Crude Oil</b>													
Canada	1.36	1.45	1.51	1.49	1.52	1.58	1.61	1.65	1.7	1.78	1.86	1.95	2.03
Mexico	1.39	1.5	1.48	1.49	1.49	1.53	1.54	1.57	1.6	1.65	1.7	1.75	1.79
North Sea	0.53	0.76	0.63	0.55	0.51	0.5	0.49	0.48	0.47	0.48	0.47	0.46	0.45
OPEC	4.84	4.09	4.38	4.61	4.76	4.94	5.06	5.21	5.38	5.57	5.87	6.15	6.44
Latin America	1.29	1.2	1.27	1.34	1.38	1.43	1.47	1.51	1.56	1.61	1.66	1.7	1.75
North Africa	0.01	0.03	0.03	0.05	0.05	0.06	0.07	0.08	0.09	0.1	0.1	0.11	0.12
West Africa	0.84	0.59	0.71	0.73	0.75	0.77	0.78	0.8	0.81	0.83	0.87	0.9	0.93
Indonesia	0.04	0.05	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Persian Gulf	2.66	2.22	2.31	2.42	2.51	2.61	2.66	2.74	2.84	2.94	3.15	3.35	3.55
Other Middle East	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
Other Latin America	0.52	0.56	0.59	0.61	0.58	0.59	0.6	0.61	0.62	0.64	0.65	0.66	0.67
Other Africa	0.51	0.51	0.64	0.71	0.72	0.75	0.77	0.8	0.84	0.87	0.94	1.01	1.08
Other Asia	0.14	0.22	0.26	0.25	0.23	0.24	0.25	0.26	0.27	0.27	0.28	0.29	0.31
<b>Total Crude Oil</b>	<b>9.33</b>	<b>9.14</b>	<b>9.53</b>	<b>9.74</b>	<b>9.84</b>	<b>10.16</b>	<b>10.35</b>	<b>10.61</b>	<b>10.91</b>	<b>11.29</b>	<b>11.8</b>	<b>12.31</b>	<b>12.81</b>
<b>Light Refined Products 1/</b>													
Canada	0.39	0.44	0.43	0.44	0.45	0.45	0.44	0.45	0.45	0.46	0.46	0.46	0.45
Northern Europe	0.15	0.17	0.15	0.16	0.17	0.17	0.16	0.17	0.17	0.16	0.15	0.15	0.14
Southern Europe	0.09	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
OPEC	0.26	0.17	0.24	0.28	0.31	0.34	0.34	0.36	0.38	0.39	0.41	0.42	0.41
Latin America	0.16	0.1	0.13	0.14	0.17	0.19	0.19	0.2	0.21	0.21	0.23	0.24	0.24
North Africa	0.04	0.03	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.05
West Africa	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
Indonesia	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
Persian Gulf	0.04	0.02	0.03	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.09
Caribbean Basin	0.27	0.32	0.3	0.31	0.28	0.28	0.27	0.27	0.27	0.25	0.27	0.29	0.29
Asian Exporters	0.11	0.12	0.12	0.12	0.1	0.1	0.09	0.1	0.1	0.11	0.12	0.13	0.13
Other	0.19	0.07	0.09	0.08	0.07	0.08	0.07	0.08	0.08	0.09	0.09	0.09	0.09
<b>Total Light Refined Products</b>	<b>1.46</b>	<b>1.37</b>	<b>1.4</b>	<b>1.46</b>	<b>1.46</b>	<b>1.5</b>	<b>1.45</b>	<b>1.51</b>	<b>1.53</b>	<b>1.54</b>	<b>1.58</b>	<b>1.62</b>	<b>1.59</b>
<b>Heavy Refined Products 2/</b>													
Canada	0.08	0.09	0.08	0.1	0.1	0.1	0.11	0.1	0.11	0.12	0.11	0.12	0.12
Northern Europe	0.15	0.14	0.07	0.13	0.13	0.13	0.11	0.08	0.08	0.08	0.07	0.08	0.08
Southern Europe	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
OPEC	0.44	0.35	0.47	0.52	0.53	0.53	0.54	0.54	0.55	0.59	0.56	0.55	0.56
Latin America	0.11	0.09	0.17	0.18	0.18	0.18	0.23	0.22	0.22	0.23	0.22	0.22	0.22
North Africa	0.22	0.19	0.14	0.17	0.17	0.17	0.12	0.12	0.12	0.13	0.13	0.13	0.13
West Africa	0.03	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Indonesia	0.02	0.01	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Persian Gulf	0.06	0.04	0.12	0.13	0.14	0.13	0.16	0.17	0.18	0.2	0.18	0.17	0.18
Caribbean Basin	0.17	0.23	0.22	0.22	0.23	0.22	0.26	0.32	0.32	0.33	0.31	0.3	0.31
Asian Exporters	0.11	0.1	0.11	0.11	0.11	0.11	0.12	0.14	0.13	0.13	0.13	0.13	0.14
Other	0.09	0.09	0.08	0.09	0.09	0.09	0.08	0.08	0.08	0.09	0.09	0.09	0.09
<b>Total Heavy Refined Products</b>	<b>1.08</b>	<b>1.02</b>	<b>1.05</b>	<b>1.19</b>	<b>1.21</b>	<b>1.19</b>	<b>1.24</b>	<b>1.28</b>	<b>1.29</b>	<b>1.36</b>	<b>1.29</b>	<b>1.29</b>	<b>1.32</b>

Table 117. Imported Petroleum by Source  
(Million Barrels per Day)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Crude Oil</b>													
Canada	2.09	2.12	2.16	2.22	2.23	2.25	2.32	2.35	2.37	2.39	2.41	2.44	2.3%
Mexico	1.82	1.84	1.86	1.88	1.9	1.92	1.94	1.97	1.99	2.01	2.02	2.02	1.3%
North Sea	0.45	0.44	0.43	0.42	0.4	0.4	0.38	0.37	0.36	0.35	0.34	0.35	-3.3%
OPEC	6.74	6.92	7.09	7.27	7.36	7.52	7.69	7.97	8.27	8.43	8.51	8.69	3.3%
Latin America	1.8	1.82	1.88	1.93	1.96	2.01	2.08	2.15	2.2	2.23	2.25	2.28	2.8%
North Africa	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.17	7.8%
West Africa	0.97	0.99	1.02	1.06	1.08	1.11	1.12	1.15	1.17	1.19	1.2	1.23	3.2%
Indonesia	0.09	0.09	0.08	0.07	0.06	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.0%
Persian Gulf	3.75	3.89	3.98	4.07	4.12	4.2	4.28	4.45	4.68	4.78	4.84	4.96	3.6%
Other Middle East	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	-1.0%
Other Latin America	0.68	0.69	0.67	0.65	0.63	0.61	0.59	0.58	0.57	0.56	0.55	0.54	-0.2%
Other Africa	1.14	1.17	1.19	1.22	1.23	1.25	1.28	1.32	1.36	1.38	1.39	1.42	4.6%
Other Asia	0.31	0.31	0.3	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.7%
<b>Total Crude Oil</b>	<b>13.27</b>	<b>13.53</b>	<b>13.74</b>	<b>13.99</b>	<b>14.07</b>	<b>14.27</b>	<b>14.53</b>	<b>14.89</b>	<b>15.24</b>	<b>15.43</b>	<b>15.53</b>	<b>15.76</b>	<b>2.4%</b>
<b>Light Refined Products 1/</b>													
Canada	0.44	0.45	0.47	0.49	0.49	0.5	0.5	0.53	0.56	0.59	0.65	0.71	2.1%
Northern Europe	0.12	0.11	0.12	0.12	0.12	0.12	0.1	0.1	0.12	0.12	0.13	0.13	-1.2%
Southern Europe	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.5%
OPEC	0.39	0.43	0.49	0.53	0.54	0.55	0.59	0.6	0.66	0.7	0.76	0.87	7.4%
Latin America	0.23	0.24	0.27	0.3	0.31	0.32	0.33	0.34	0.37	0.39	0.41	0.46	6.9%
North Africa	0.05	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.1	5.4%
West Africa	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	4.9%
Indonesia	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	3.1%
Persian Gulf	0.08	0.1	0.12	0.13	0.13	0.13	0.14	0.14	0.16	0.18	0.21	0.26	11.8%
Caribbean Basin	0.29	0.31	0.34	0.37	0.38	0.39	0.39	0.4	0.43	0.45	0.49	0.54	2.3%
Asian Exporters	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.16	0.17	0.18	0.2	0.22	2.7%
Other	0.08	0.08	0.1	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.14	0.15	3.4%
<b>Total Light Refined Products</b>	<b>1.51</b>	<b>1.57</b>	<b>1.71</b>	<b>1.82</b>	<b>1.84</b>	<b>1.87</b>	<b>1.91</b>	<b>1.97</b>	<b>2.14</b>	<b>2.25</b>	<b>2.46</b>	<b>2.71</b>	<b>3.0%</b>
<b>Heavy Refined Products 2/</b>													
Canada	0.13	0.13	0.13	0.13	0.15	0.15	0.17	0.18	0.18	0.18	0.19	0.18	3.1%
Northern Europe	0.08	0.09	0.09	0.08	0.09	0.1	0.11	0.11	0.11	0.11	0.12	0.12	-0.7%
Southern Europe	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	3.1%
OPEC	0.59	0.64	0.69	0.75	0.81	0.91	0.98	1.02	1	0.99	1.02	1.08	5.0%
Latin America	0.23	0.24	0.25	0.27	0.29	0.32	0.34	0.35	0.34	0.34	0.35	0.36	6.2%
North Africa	0.13	0.14	0.15	0.15	0.17	0.19	0.21	0.22	0.22	0.22	0.23	0.22	0.6%
West Africa	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	4.1%
Indonesia	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	6.2%
Persian Gulf	0.2	0.22	0.25	0.28	0.3	0.33	0.36	0.37	0.36	0.35	0.36	0.41	10.6%
Caribbean Basin	0.33	0.34	0.36	0.37	0.4	0.42	0.44	0.45	0.43	0.43	0.44	0.46	3.1%
Asian Exporters	0.14	0.14	0.15	0.15	0.17	0.18	0.2	0.21	0.21	0.21	0.22	0.21	3.3%
Other	0.1	0.1	0.1	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	1.9%
<b>Total Heavy Refined Products</b>	<b>1.39</b>	<b>1.46</b>	<b>1.54</b>	<b>1.61</b>	<b>1.76</b>	<b>1.91</b>	<b>2.06</b>	<b>2.14</b>	<b>2.1</b>	<b>2.09</b>	<b>2.17</b>	<b>2.23</b>	<b>3.5%</b>

Table 117. Imported Petroleum 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.

N/A = Not applicable.

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.