

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2022, United States

Year	Primary energy															Electric power sector ^{i,k,l}	Electricity ^m	Total energy ^{h,i,j}	
	Coal			Coal coke		Natural gas ^a	Petroleum						Nuclear fuel	Biomass	Total ^{h,j,k}				
	Coking coal	Steam coal	Total	Exports	Imports		Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f							Total
Prices in dollars per million Btu																			
1970	0.45	0.36	0.38	1.27	0.93	0.59	1.16	1.45	0.73	2.85	0.42	1.38	1.72	0.18	1.34	1.08	0.32	4.98	1.65
1975	1.65	0.90	1.03	2.37	3.47	1.18	2.60	3.02	2.05	4.65	1.93	2.94	3.35	0.24	1.55	2.19	0.97	8.61	3.33
1980	2.10	1.38	1.46	2.54	3.19	2.86	6.70	5.78	6.36	9.84	3.88	7.04	7.41	0.43	2.26	4.58	1.77	13.95	6.89
1985	2.03	1.66	1.68	2.76	2.99	4.61	7.22	6.82	5.91	9.01	4.30	7.62	7.65	0.71	2.47	4.93	1.91	19.05	8.38
1990	1.79	1.47	1.48	3.53	3.80	3.82	7.68	7.00	5.68	9.12	3.17	6.48	7.56	0.67	1.32	4.49	1.48	19.32	8.29
1995	1.76	1.34	1.36	2.71	3.43	3.73	6.98	6.67	4.00	9.24	2.46	5.98	7.33	0.54	1.40	4.24	1.29	20.29	8.31
2000	1.67	1.22	1.24	3.64	2.66	5.61	9.87	9.79	6.64	11.91	4.32	7.55	9.90	0.46	1.57	5.72	1.71	20.03	10.33
2005	3.19	1.57	1.61	3.39	8.92	9.92	16.43	14.95	12.86	17.98	6.65	10.81	15.58	0.43	3.10	9.24	2.61	23.92	15.57
2006	3.54	1.72	1.77	3.19	6.31	9.62	18.62	17.32	14.80	20.40	7.93	13.30	18.02	0.44	3.12	10.23	2.48	26.15	17.40
2007	3.64	1.82	1.87	3.66	7.84	9.31	20.01	19.31	16.01	22.34	8.57	14.97	19.69	0.46	3.34	10.79	2.68	26.84	18.34
2008	4.49	2.14	2.20	4.33	18.76	10.83	26.48	23.92	22.56	26.09	12.61	19.26	24.55	0.47	3.72	13.01	3.21	28.62	21.53
2009	5.43	2.25	2.32	4.17	10.82	7.67	17.13	16.76	12.61	18.97	9.68	16.47	17.32	0.56	3.38	9.50	2.45	28.90	17.26
2010	5.84	2.32	2.41	6.74	13.37	7.37	21.00	19.10	16.32	22.64	11.77	20.37	20.85	0.64	3.56	10.77	2.63	28.92	18.92
2011	6.89	2.43	2.55	8.75	15.71	7.03	27.04	22.82	22.64	28.59	15.68	25.10	26.55	0.68	3.85	12.99	2.65	29.12	21.87
2012	6.59	R 2.44	2.59	8.65	13.64	5.74	27.97	17.10	23.04	29.42	17.31	25.37	R 26.84	0.74	3.62	12.87	2.41	28.98	21.84
2013	5.43	R 2.40	2.51	8.91	8.55	6.44	27.61	16.54	22.12	28.61	16.52	25.34	26.17	0.79	3.77	12.75	2.62	29.64	21.42
2014	4.61	2.42	2.49	9.94	4.73	7.20	26.72	17.68	20.63	27.49	15.06	25.08	25.42	0.75	4.16	12.67	2.80	30.74	21.33
2015	4.16	2.28	2.35	9.28	5.90	5.61	18.60	10.69	12.12	20.22	8.99	19.38	17.95	0.72	3.55	9.49	2.28	30.66	17.31
2016	3.56	2.18	2.23	8.75	5.78	5.06	15.81	10.18	9.83	18.04	6.83	16.77	15.70	0.70	3.27	8.49	2.09	30.26	15.95
2017	4.11	2.12	2.19	9.32	7.11	5.72	18.26	R 12.70	12.09	20.26	8.95	18.01	17.89	0.73	3.28	9.68	2.21	30.88	17.32
2018	4.40	R 2.11	R 2.20	10.53	10.66	5.71	21.83	R 14.20	15.72	22.52	11.84	21.19	20.54	0.70	3.28	10.76	2.33	31.02	18.61
2019	5.01	2.11	2.24	11.29	12.34	5.29	20.90	R 10.92	14.61	21.61	11.33	21.15	R 19.38	0.66	3.36	10.29	2.08	31.05	17.96
2020	4.43	2.02	2.13	10.56	10.22	R 4.86	17.15	R 9.22	9.79	18.01	7.94	18.18	15.97	0.63	R 2.54	8.51	1.84	31.19	R 16.24
2021	4.17	2.11	2.21	10.18	10.81	R 7.04	R 15.14	R 15.14	14.51	24.80	12.05	22.45	21.80	0.69	R 3.17	R 11.91	R 3.07	32.66	R 19.98
2022	6.82	2.51	2.71	13.79	20.50	9.25	34.61	15.47	26.05	32.41	20.22	30.75	30.11	0.61	4.02	16.24	4.17	36.35	25.66

Year	Expenditures in million dollars																		
	Coking coal	Steam coal	Total	Exports	Imports	Natural gas ^a	Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f	Total	Nuclear fuel	Biomass	Total ^{h,j,k}	Electric power sector ^{i,k,l}	Electricity ^m	Total energy ^{h,i,j}
1970	1,175	3,455	4,630	78	4	10,891	6,253	2,395	1,441	31,596	2,046	4,172	47,904	44	452	63,887	-4,357	23,345	82,875
1975	3,692	9,329	13,021	75	156	20,061	15,680	5,224	4,193	59,446	10,374	8,493	103,409	448	548	137,719	-16,545	50,680	171,854
1980	3,753	18,853	22,607	130	52	51,061	40,797	10,929	13,923	124,408	21,573	26,049	237,679	1,189	1,232	314,282	-38,027	98,095	374,350
1985	2,228	27,259	29,487	77	43	72,938	43,972	13,755	14,747	118,048	11,493	22,272	224,288	2,878	1,597	333,080	-43,970	149,233	438,343
1990	1,862	26,557	28,419	50	72	65,278	49,335	13,845	17,784	126,558	8,721	21,433	237,677	4,104	1,997	338,588	-40,626	176,691	474,652
1995	1,558	25,740	27,298	91	325	75,020	47,532	16,197	12,526	136,647	4,676	20,035	237,613	3,810	2,938	347,820	-39,073	205,876	514,624
2000	1,327	26,632	27,959	103	249	119,094	78,208	27,970	23,781	192,153	8,870	28,421	359,403	3,628	3,174	516,187	-60,053	231,577	687,711
2005	1,964	34,779	36,742	147	780	200,355	143,596	38,874	44,679	312,047	13,951	43,138	596,287	3,469	5,894	845,859	-95,916	295,787	1,045,730
2006	2,132	37,662	39,794	128	636	190,589	164,395	45,355	50,007	357,286	12,432	52,309	681,785	3,637	6,096	924,932	-90,074	323,962	1,158,821
2007	2,175	40,345	42,520	131	478	196,957	177,162	51,081	53,754	389,282	14,129	54,917	740,325	3,871	6,407	993,627	-100,683	340,925	1,233,869
2008	2,606	R 46,643	R 49,249	210	1,676	230,465	220,936	59,610	72,046	438,237	17,949	62,304	871,081	3,976	7,038	R 1,166,832	R -118,526	360,454	1,408,759
2009	2,192	R 43,441	R 45,632	135	93	159,364	131,104	43,052	36,354	317,082	11,284	44,859	583,735	4,680	5,371	R 800,897	R -84,804	350,435	1,066,528
2010	3,239	R 46,996	R 50,235	245	403	161,303	168,183	R 54,863	48,346	376,491	14,382	54,833	R 717,098	5,414	6,893	R 943,147	R -94,782	365,913	R 1,214,278
2011	3,885	R 46,335	R 50,220	210	552	155,944	221,972	R 64,040	66,773	462,435	16,517	63,731	R 895,467	5,621	7,525	R 1,117,175	R -92,716	368,009	R 1,392,469
2012	3,916	R 41,034	R 44,950	209	384	132,830	220,770	49,258	66,845	473,216	14,635	58,766	R 883,491	5,965	7,132	R 1,076,466	R -82,154	360,863	1,355,175
2013	3,346	R 41,898	R 45,244	186	29	151,672	222,206	R 52,282	65,668	467,328	12,034	59,982	R 879,500	6,252	7,935	R 1,093,431	R -89,096	372,068	R 1,376,403
2014	2,796	R 42,050	R 44,846	233	9	174,398	226,833	R 54,050	62,745	452,821	8,861	58,726	R 864,036	6,252	9,032	R 1,101,360	R -95,800	389,872	R 1,395,432
2015	2,340	R 34,219	R 36,559	197	20	140,294	156,260	R 34,299	38,820	342,578	5,328	46,228	R 623,513	5,975	7,554	R 816,437	R -76,333	388,344	R 1,128,449
2016	1,678	R 29,996	R 31,673	217	33	127,618	129,161	R 32,309	32,928	310,961	5,112	39,456	R 549,927	5,857	R 6,752	R 723,811	R -68,493	383,567	R 1,038,885
2017	2,069	R 28,235	R 30,304	280	10	142,072	150,860	R 41,411	52,754	348,456	7,005	42,018	R 631,844	6,135	6,643	R 818,786	R -69,692	387,222	R 1,136,316
2018	2,306	R 26,897	R 29,203	301	31	157,762	190,165	R 52,674	55,549	387,586	8,606	48,096	R 742,677	5,916	6,841	R 944,264	R -75,615	403,349	R 1,271,998
2019	2,578	R 22,785	R 25,363	271	35	150,288	180,226	R 42,452	52,706	370,930	7,151	46,894	R 700,359	5,592	R 6,731	R 889,952	R -64,852	398,774	R 1,223,875
2020	2,130	R 17,693	R 19,523	179	41	R 134,958	136,746	R 36,385	21,863	268,098	3,798	37,817	R 504,707	5,195	R 4,703	R 670,705	R -53,959	390,934	R 1,007,680
2021	1,803	R 21,167	R 23,271	126	31	R 194,617	R 193,576	R 63,948	41,143	403,022	8,687	48,276	R 758,652	R 5,601	R 5,905	R 989,877	R -92,203	419,304	R 1,316,978
2022	3,132	23,656	26,787	793	34	269,473	304,360	61,113	84,100	526,258	15,277	61,091	1,052,199	4,890	7,346	1,363,794	-126,113	481,757	1,719,438

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
^c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
^e Beginning in 1993, includes fuel ethanol blended into motor gasoline.
^f Includes asphalt and road oil, aviation gasoline, kerosene, petroleum coke, and the "other petroleum products" category.
See Technical Notes, Section 4.
^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass

waste beginning in 1989.
ⁱ There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
^j For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
^k Electricity imports are included in total primary energy and electric power sector but are not shown separately.
^l Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
^m Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Where shown, R = Revised data.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>