

Table ES1. Summary Statistics for the United States, 1996 through 2007

Description	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Net Generation (thousand megawatthours)												
Coal ¹	2,016,456	1,990,511 ^R	2,012,873 ^R	1,978,301 ^R	1,973,737	1,933,130	1,903,956	1,966,265	1,881,087	1,873,516	1,845,016	1,795,196
Petroleum ²	65,739	64,166 ^R	122,225 ^R	121,145 ^R	119,406	94,567	124,880	111,221	118,061	128,800	92,555	81,411
Natural Gas	896,590	816,441 ^R	760,960 ^R	710,100 ^R	649,908	691,006	639,129	601,038	556,396	531,257	479,399	455,056
Other Gases ³	13,453	14,177 ^R	13,464 ^R	15,252 ^R	15,600	11,463	9,039	13,955	14,126	13,492	13,351	14,356
Nuclear	806,425	787,219	781,986	788,528	763,733	780,064	768,826	753,893	728,254	673,702	628,644	674,729
Hydroelectric Conventional ⁴	247,510	289,246	270,321	268,417	275,806	264,329	216,961	275,573	319,536	323,336	356,453	347,162
Other Renewables ⁵	105,238	96,525 ^R	87,329 ^R	83,067 ^R	79,487	79,109	70,769	80,906	79,423	77,088	77,183	75,796
Wind	34,450	26,589	17,811	14,144	11,187	10,354	6,737	5,593	4,488	3,026	3,288	3,234
Solar Thermal and Photovoltaic	612	508	550	575	534	555	543	493	495	502	511	521
Wood and Wood Derived Fuels ⁶	39,014	38,762 ^R	38,856 ^R	38,117 ^R	37,529	38,665	35,200	37,595	37,041	36,338	36,948	36,800
Geothermal	14,637	14,568	14,692	14,811	14,424	14,491	13,741	14,093	14,827	14,774	14,726	14,329
Other Biomass ⁷	16,525	16,099	15,420	15,421	15,812	15,044	14,548	23,131	22,572	22,448	21,709	20,911
Pumped Storage ⁸	-6,896	-6,558	-6,558	-8,488	-8,535	-8,743	-8,823	-5,539	-6,097	-4,467	-4,040	-3,088
Other ⁹	12,231	12,974 ^R	12,821 ^R	14,232 ^R	14,045	13,527	11,906	4,794	4,024	3,571	3,612	3,571
All Energy Sources	4,156,745	4,064,702	4,055,423	3,970,555	3,883,185	3,858,452	3,736,644	3,802,105	3,694,810	3,620,295	3,492,172	3,444,188
Net Summer Generating Capacity (megawatts)												
Coal	312,738	312,956	313,380	313,020	313,019	315,350	314,230	315,114	315,496	315,786	313,624	313,382
Petroleum ²	56,068	58,097	58,548	59,119	60,730	59,651	66,162	61,837	60,069	66,282	72,463	72,518
Natural Gas ¹⁰	392,876	388,294	383,061	371,011	355,442	312,512	252,832	219,590	195,119	180,288	176,471	174,135
Other Gases ³	2,313	2,256	2,063	2,296	1,994	2,008	1,670	2,342	1,909	1,520	1,525	1,664
Nuclear	100,266	100,334	99,988	99,628	99,209	98,657	98,159	97,860	97,411	97,070	99,716	100,784
Hydroelectric Conventional ⁴	77,885	77,821	77,541	77,641	78,694	79,356	78,916	79,359	79,393	79,151	79,415	76,437
Other Renewables ⁵	30,069	24,113	21,205	18,717	18,153	16,710	16,101	15,572	15,942	15,444	15,351	15,309
Wind	16,515	11,329	8,706	6,456	5,995	4,417	3,864	2,377	2,252	1,720	1,610	1,678
Solar Thermal and Photovoltaic	502	411	411	398	397	397	392	386	389	335	334	333
Wood and Wood Derived Fuels ¹¹	6,704	6,372	6,193	6,182	5,871	5,844	5,882	6,147	6,795	6,802	6,924	6,808
Geothermal	2,214	2,274	2,285	2,152	2,133	2,252	2,216	2,793	2,846	2,893	2,893	2,893
Other Biomass ⁷	4,134	3,727	3,609	3,529	3,758	3,800	3,748	3,869	3,660	3,694	3,590	3,598
Pumped Storage ¹²	21,886	21,461	21,347	20,764	20,522	20,371	19,664	19,522	19,565	19,518	19,310	21,110
Other ¹³	788	882	887	746	684	686	519	523	1,023	810	774	550
All Energy Sources	994,888	986,215	978,020	962,942	948,446	905,301	848,254	811,719	785,927	775,868	778,649	775,890
Demand, Capacity Resources, and Capacity Margins – Summer												
Net Internal Demand (megawatts)	764,476	760,108	746,470	692,908	696,752	696,376	674,833	680,941	653,857	638,086	618,389	602,438
Capacity Resources (megawatts)	915,292	906,155	882,125	875,870	856,131	833,380	788,990	808,054	765,744	744,670	737,855	730,376
Capacity Margins (percent)	16.5	16.1	15.4	20.9	18.6	16.4	14.5	15.7	14.6	14.3	16.2	17.5
Fuel												
Consumption of Fossil Fuels for Electricity Generation												
Coal (thousand tons) ¹	1,046,795	1,030,556 ^R	1,041,448 ^R	1,020,523 ^R	1,014,058	987,583	972,691	994,933	949,802	946,295	931,949	907,209
Petroleum (thousand barrels) ²	112,615	110,634 ^R	206,785 ^R	203,494 ^R	206,653	168,597	216,672	195,228	207,871	222,640	159,715	144,626
Natural Gas (millions of cubic feet)	7,089,342	6,461,615 ^R	6,036,370 ^R	5,674,580 ^R	5,616,135	6,126,062	5,832,305	5,691,481	5,321,984	5,081,384	4,564,770	4,312,458
Other Gases (millions of Btu) ³	114,904	114,665 ^R	109,916 ^R	135,144 ^R	156,306	131,230	97,308	125,971	126,387	124,988	119,412	158,560
Consumption of Fossil Fuels for Thermal Output in Combined Heat and Power Facilities												
Coal (thousand tons) ¹	22,810	23,227 ^R	23,833 ^R	24,275 ^R	17,720	17,561	18,944	20,466	20,373	20,320	21,005	20,806
Petroleum (thousand barrels) ²	19,775	20,371 ^R	24,408 ^R	25,870 ^R	17,939	14,811	18,268	22,266	26,822	28,845	28,802	27,873
Natural Gas (millions of cubic feet)	872,579	942,817 ^R	984,340 ^R	1,052,100 ^R	721,267	860,019	898,286	985,263	982,958	949,106	868,569	865,774
Other Gases (millions of Btu) ³	214,321	226,464 ^R	238,396 ^R	218,295 ^R	137,837	146,882	166,161	230,082	223,713	208,828	187,680	187,290
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output												
Coal (thousand tons) ¹	1,069,606	1,053,783	1,065,281	1,044,798	1,031,778	1,005,144	991,635	1,015,398	970,175	966,615	952,955	928,015
Petroleum (thousand barrels) ²	132,389	131,005	231,193	229,364	224,593	183,408	234,940	217,494	234,694	251,486	188,517	172,499
Natural Gas (millions of cubic feet)	7,961,922	7,404,432 ^R	7,020,709 ^R	6,726,679	6,337,402	6,986,081	6,730,591	6,676,744	6,304,942	6,030,490	5,433,338	5,178,232
Other Gases (millions of Btu) ³	329,225	341,129	348,312	353,438 ^R	294,143	278,111	263,469	356,053	350,100	333,816	307,092	345,850
Stocks at Electric Power Sector Facilities (year end)												
Coal (thousand tons) ¹⁴	151,221	140,964	101,137	106,669	121,567	141,714	138,496	102,296	141,604	120,501	98,826	114,623
Petroleum (thousand barrels) ¹⁵	47,203	51,583	50,062	51,434	53,170	52,490	57,031	40,932	54,109	56,591	51,138	48,146
Receipts of Fuel at Electricity Generators¹⁶												
Coal (thousand tons) ¹	1,054,664	1,079,943	1,021,437	1,002,032	986,026	884,287	762,815	790,274	908,232	929,448	880,588	862,701
Petroleum (thousand barrels) ²	88,347	100,965	194,733	186,655	185,567	120,851	124,618	108,272	145,939	181,276	128,749	113,678
Natural Gas (millions of cubic feet) ¹⁷	7,200,316	6,675,246	6,181,717	5,734,054	5,500,704	5,607,737	2,148,924	2,629,986	2,809,455	2,922,957	2,764,734	2,604,663
Cost of Fuel at Electricity Generators (cents per million Btu)¹⁶												
Coal ¹	177	169	154	136	128	125	123	120	122	125	127	129
Petroleum ²	717	623	644	429	433	334	369	418	236	202	273	303
Natural Gas ¹⁷	711	694	821	596	539	356	449	430	257	238	276	264
Emissions (thousand metric tons)												
Carbon Dioxide (CO ₂)	2,516,580	2,459,800	2,513,609	2,456,934	2,415,680	2,395,048	2,389,745	2,441,722	2,338,660	2,324,139	2,232,709	2,161,258
Sulfur Dioxide (SO ₂)	9,042	9,524	10,340	10,309	10,646	10,881	11,174	11,963 ^R	12,843 ^R	13,464 ^R	13,480 ^R	12,991 ^R
Nitrogen Oxides (NO _x)	3,650	3,799	3,961	4,143	4,532	5,194	5,290	5,638 ^R	5,955 ^R	6,459 ^R	6,500 ^R	6,474 ^R

See end of table for Notes and Sources.

Table ES1. Summary Statistics for the United States, 1996 through 2007
(Continued)

Description	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Trade (million megawatthours)												
Purchases.....	5,411	5,503	6,092	6,999 ^R	6,980	8,755	7,555	2,346	2,040	2,021	1,966	1,798
Sales for Resale.....	5,479	5,493	6,072	6,759 ^R	6,921	8,569	7,345	2,355	1,998	1,922	1,839	1,656
Electricity Imports and Exports (thousand megawatthours)												
Imports.....	51,396	42,691	44,527 ^R	34,210	30,395 ^R	36,779	38,500	48,592	43,215	39,513	43,031	43,497
Exports.....	20,144	24,271	19,791 ^R	22,898	23,975 ^R	15,796	16,473	14,829	14,222	13,656	8,974	3,302
Retail Sales and Revenue Data – Bundled and Unbundled												
Number of Ultimate Customers (thousands)												
Residential.....	123,950	122,471	120,761	118,764	117,280	116,622	114,890	111,718	110,383	109,048	107,066	105,343
Commercial.....	17,377	17,172	16,872	16,607	16,550	15,334	14,867	14,349	14,074	13,887	13,542	13,181
Industrial.....	794	760	734	748	713	602	571	527	553	540	563	586
Transportation.....	1	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Other.....	NA	NA	NA	NA	NA	1,067	1,030	974	935	933	952	894
All Sectors.....	142,122	140,404	138,367	136,119	134,544	133,624	131,359	127,568	125,945	124,408	122,123	120,004
Sales to Ultimate Customers (thousand megawatthours)												
Residential.....	1,392,241	1,351,520	1,359,227	1,291,982	1,275,824	1,265,180	1,201,607	1,192,446	1,144,923	1,130,109	1,075,880	1,082,512
Commercial.....	1,336,315	1,299,744	1,275,079	1,230,425	1,198,728	1,104,497	1,083,069	1,055,232	1,001,996	979,401	928,633	887,445
Industrial.....	1,027,832	1,011,298	1,019,156	1,017,850	1,012,373	990,238	996,609	1,064,239	1,058,217	1,051,203	1,038,197	1,033,631
Transportation.....	8,173	7,358	7,506	7,224	6,810	NA	NA	NA	NA	NA	NA	NA
Other.....	NA	NA	NA	NA	NA	105,552	113,174	109,496	106,952	103,518	102,901	97,539
All Sectors.....	3,764,561	3,669,919	3,660,969	3,547,479	3,493,734	3,465,466	3,394,458	3,421,414	3,312,087	3,264,231	3,145,610	3,101,127
Direct Use ¹⁸	159,254	146,927	150,016	168,470	168,295	166,184	162,649	170,943	171,629	160,866	156,239	152,638
Total Disposition.....	3,923,814	3,816,845	3,810,984	3,715,949	3,662,029	3,631,650	3,557,107	3,592,357	3,483,716	3,425,097	3,301,849	3,253,765
Revenue From Ultimate Customers (million dollars)												
Residential.....	148,295	140,582	128,393	115,577	111,249	106,834	103,158	98,209	93,483	93,360	90,704	90,503
Commercial.....	128,903	122,914	110,522	100,546	96,263	87,117	85,741	78,405	72,771	72,575	70,497	67,829
Industrial.....	65,712	62,308	58,445	53,477	51,741	48,336	50,293	49,369	46,846	47,050	47,023	47,536
Transportation.....	792	702	643	519	514	NA	NA	NA	NA	NA	NA	NA
Other.....	NA	NA	NA	NA	NA	7,124	8,151	7,179	6,796	6,863	7,110	6,741
All Sectors.....	343,703	326,506	298,003	270,119	259,767	249,411	247,343	233,163	219,896	219,848	215,334	212,609
Average Retail Price (cents per kilowatthour)												
Residential.....	10.65	10.40	9.45	8.95	8.72	8.44	8.58	8.24	8.16	8.26	8.43	8.36
Commercial.....	9.65	9.46	8.67	8.17	8.03	7.89	7.92	7.43	7.26	7.41	7.59	7.64
Industrial.....	6.39	6.16	5.73	5.25	5.11	4.88	5.05	4.64	4.43	4.48	4.53	4.60
Transportation.....	9.70	9.54	8.57	7.18	7.54	NA	NA	NA	NA	NA	NA	NA
Other.....	NA	NA	NA	NA	NA	6.75	7.20	6.56	6.35	6.63	6.91	6.91
All Sectors.....	9.13	8.90	8.14	7.61	7.44	7.20	7.29	6.81	6.64	6.74	6.85	6.86
Revenue and Expense Statistics (million dollars)												
Major Investor Owned												
Utility Operating Revenues.....	282,875	277,142	267,534	240,318	226,227	219,389	267,525	235,336	214,160	218,175	215,083	207,459
Utility Operating Expenses.....	252,216	247,170	238,590	207,161	197,459	188,745	235,198	210,324	182,258	186,498	182,796	173,920
Net Utility Operating Income.....	30,659	29,972	28,944	33,158	28,768	30,644	32,327	25,012	31,902	31,677	32,286	33,539
Major Publicly Owned (with Generation Facilities)												
Operating Revenues.....	NA	NA	NA	NA	33,906	32,776	38,028	31,843	26,767	26,155	25,397	24,207
Operating Expenses.....	NA	NA	NA	NA	29,637	28,638	32,789	26,244	21,274	20,880	20,425	19,084
Net Electric Operating Income.....	NA	NA	NA	NA	4,268	4,138	5,238	5,598	5,493	5,275	4,972	5,123
Major Publicly Owned (without Generation Facilities)												
Operating Revenues.....	NA	NA	NA	NA	12,454	11,546	10,417	9,904	9,354	8,790	8,586	8,582
Operating Expenses.....	NA	NA	NA	NA	11,481	10,703	9,820	9,355	8,737	8,245	8,033	8,123
Net Electric Operating Income.....	NA	NA	NA	NA	974	843	597	549	617	545	552	459
Major Federally Owned												
Operating Revenues.....	NA	NA	NA	NA	11,798	11,470	12,458	10,685	10,186	9,780	8,833	9,082
Operating Expenses.....	NA	NA	NA	NA	8,763	8,665	10,013	8,139	7,775	7,099	5,999	6,390
Net Electric Operating Income.....	NA	NA	NA	NA	3,035	2,805	2,445	2,546	2,411	2,681	2,834	2,692
Major Cooperative Borrower Owned												
Operating Revenues.....	38,208	36,723 ^R	34,088	30,650	29,228	27,458	26,458	25,629	23,824	23,988	23,321	24,424
Operating Expenses.....	34,843	33,550 ^R	31,209	27,828	26,361	24,561	23,763	22,982	21,283	21,223	20,715	23,149
Net Electric Operating Income.....	3,365	3,173 ^R	2,879	2,822	2,867	2,897	2,696	2,647	2,541	2,764	2,606	1,274 ^R
Demand-Side Management (DSM) Data												
Actual Peak Load Reductions (megawatts)												
Total Actual Peak Load Reduction.....	30,276	27,240	25,710	23,532	22,904	22,936	24,955	22,901	26,455	27,231	25,284	29,893
DSM Energy Savings (thousand megawatthours)												
Energy Efficiency.....	67,134	62,951	58,891	52,662	48,245	52,285	52,946	52,827	49,691	48,775	55,453	59,853
Load Management.....	1,937	865	1,006	2,047	2,020	1,790	990	875	872	392	953	1,989
DSM Cost (million dollars)												
Total Cost.....	2,527	2,051	1,921	1,557	1,297	1,626	1,630	1,565	1,424	1,421	1,636	1,902

¹ Includes anthracite, bituminous, subbituminous and lignite coal. Waste and synthetic coal are included starting in 2002.

² Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology) and waste oil.

³ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

⁴ Conventional hydroelectric power excluding pumped storage facilities.

⁵ Other renewables represents the summation of the sub-categories of Wind, Solar Thermal and Photovoltaic, Wood and Wood Derived Fuels, Geothermal, and Other Biomass.

⁶ Wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

⁷ Biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

⁸ The generation from a hydroelectric pumped storage facility is the net value of production minus the energy used for pumping.

⁹ Non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

¹⁰ Includes a small number of generators for which waste heat is the primary energy source.

¹¹ Includes paper pellets, railroad ties, utility poles, wood chips, bark, black liquor and other wood waste solids and liquids.

¹² Pumped storage is the capacity to generate electricity from water previously pumped to an elevated reservoir and then released through a conduit to turbine generators located at a lower level.

¹³ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

¹⁴ Anthracite, bituminous, subbituminous, lignite, and synthetic coal; excludes waste coal.

¹⁵ Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, petroleum coke (converted to liquid petroleum, see Technical Notes for conversion methodology). Data prior to 2004 includes small quantities of waste oil.

¹⁶ Beginning in 2002, includes data from the Form EIA-423 for independent power producers and combined heat and power producers.

¹⁷ Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately.

¹⁸ Direct Use represents commercial and industrial facility use of onsite net electricity generation; and electricity sales or transfers to adjacent or co-located facilities for which revenue information is not available.

NA = Not available.

R = Revised.

Note: See Glossary reference for definitions. See Technical Notes Table A5 for conversion to different units of measure. Capacity by energy source is based on the capacity associated with the energy source reported as the most predominant (primary) one, where more than one energy source is associated with a generator. Dual-fired capacity returned to respective fuel categories for current and all historical years. New fuel switchable capacity tables have replaced dual-fired breakouts. Totals may not equal sum of components because of independent

Sources: Energy Information Administration Form EIA-411, "Coordinated Bulk Power Supply Program Report;" Form EIA-412, "Annual Electric Industry Financial Report" The Form EIA-412 was terminated in 2003; Form EIA-767, "Steam-Electric Plant Operation and Design Report was suspended;" Form EIA-860, "Annual Electric Generator Report;" Form EIA-861, "Annual Electric Power Industry Report;" Form EIA-923, "Power Plant Operations Report" replaces several form(s) including: Form EIA-906, "Power Plant Report;" Form EIA-920 "Combined Heat and Power Plant Report;" Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report; and FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and their predecessor forms. Federal Regulatory Commission, FERC Form 1, "Annual Report of Major Utilities, Licensees and Others;" FERC Form 1-F, "Annual Report for Nonmajor Public Utilities and Licensees;" Rural Utility Services (RUS) Form 7, "Operating Report;" RUS Form 12, "Operating Report;" Imports and Exports: DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, "Annual Report of International Electric Export/Import Data," predecessor forms, and National Energy Board of Canada. For 2001 forward, data from the California Independent System Operator are used in combination with the Form OE-781R values to estimate electricity trade with Mexico.