

Table 1. 2004 Summary Statistics

Item	Value	Highest	Lowest
United States			
Primary Energy Source.....	Coal		
Net Summer Capability (megawatts).....	962,942	Texas	District of Columbia
Electric Utilities.....	550,550	Florida	District of Columbia
Independent Power Producers & Combined Heat and Power.....	412,392	Texas	Nebraska
Net Generation (megawatthours).....	3,970,555,263	Texas	District of Columbia
Electric Utilities.....	2,505,231,152	Florida	Maine
Independent Power Producers & Combined Heat and Power.....	1,465,324,111	Texas	District of Columbia
Emissions (thousand metric tons)			
Sulfur Dioxide.....	10,307	Ohio	Vermont
Nitrogen Oxide.....	3,951	Ohio	District of Columbia
Carbon Dioxide.....	2,444,443	Texas	Vermont
Sulfur Dioxide (lbs/MWh).....	5.7	Ohio	Vermont
Nitrogen Oxide (lbs/MWh).....	2.2	North Dakota	Vermont
Carbon Dioxide (lbs/MWh).....	1,357	District of Columbia	Vermont
Total Retail Sales (megawatthours).....	3,548,217,525	Texas	Vermont
Full Service Sales (megawatthours).....	3,274,906,612	Texas	Maine
Deregulated Sales (megawatthours).....	273,310,913	California	Nevada
Direct Use (megawatthours).....	168,470,002	Texas	District of Columbia
Average Retail Price (cents/kWh).....	7.62	Hawaii	Kentucky

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
United States			
1. Grand Coulee.....	Hydroelectric	U S Bureau of Reclamation	7,079
2. Palo Verde.....	Nuclear	Arizona Public Service Co	3,804
3. W A Parish.....	Gas, Coal	Texas Genco II, LP	3,653
4. Scherer.....	Petroleum, Coal	Georgia Power Co	3,430
5. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,297
6. Bowen.....	Petroleum, Coal	Georgia Power Co	3,254
7. Crystal River.....	Petroleum, Nuclear, Coal	Florida Power Corp	3,140
8. Gibson.....	Petroleum, Coal	PSI Energy Inc	3,131
9. Monroe.....	Petroleum, Coal	Detroit Edison Co	3,094
10. Martin.....	Petroleum, Gas	Florida Power & Light Co	2,906

See footnotes at end of tables.

Table 3. Top Five Providers of Retail Electricity, 2004 (Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
United States						
1. Florida Power & Light Co.....	Investor-Owned	99,144,067	52,528,487	42,556,194	3,966,117	93,269
2. Georgia Power Co.....	Investor-Owned	77,904,202	22,930,371	28,436,240	26,357,271	180,320
3. Duke Energy Corp.....	Investor-Owned	75,774,994	25,094,202	25,451,151	25,229,641	0
4. Dominion Virginia Power.....	Investor-Owned	75,140,773	28,311,423	35,824,679	10,843,026	161,645
5. TXU Energy Retail Co LP.....	Power Marketer	69,343,637	33,512,159	10,365,790	25,387,564	78,124
Total Sales, Top Five Providers.....		397,307,673	162,376,642	142,634,054	91,783,619	513,358

See footnotes at end of tables.

Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1990, 1995, and 2000 Through 2004
(Megawatts)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
United States									
Electric Utilities	690,465	706,111	604,319	549,920	561,074	547,249	550,550	94.1	57.2
Coal	299,781	300,569	260,990	244,451	244,056	236,473	235,976	40.8	24.5
Petroleum	47,722	42,232	25,823	24,150	23,067	20,766	19,878	6.5	2.1
Natural Gas	43,958	55,220	32,069	35,117	50,026	48,233	54,231	6.0	5.6
Other Gases	374	290	57	57	61	61	58	.1	*
Dual Fired	106,011	109,294	106,806	92,030	88,476	89,183	89,040	14.4	9.2
Nuclear	99,624	99,515	85,968	63,060	63,202	60,964	60,651	13.6	6.3
Hydroelectric	71,423	75,274	73,738	72,968	73,391	72,827	71,696	9.7	7.4
Other Renewables	2,111	2,330	837	979	989	925	960	.3	.1
Pumped Storage	19,462	21,387	18,020	17,097	17,807	17,803	18,048	2.7	1.9
Other	0	0	13	13	0	13	13	.0	*
Independent Power Producers and Combined									
Heat and Power	43,657	63,352	207,400	298,334	344,228	401,198	412,392	5.9	42.8
Coal	7,580	10,818	54,123	69,780	71,294	76,546	77,044	1.0	8.0
Petroleum	1,271	1,476	10,068	15,563	15,147	15,663	13,825	.2	1.4
Natural Gas	12,236	20,218	63,637	90,682	121,635	160,214	170,027	1.7	17.7
Other Gases	1,266	1,370	2,285	1,614	1,946	1,933	2,239	.2	.2
Dual Fired	7,571	12,664	43,026	61,454	73,813	82,111	83,130	1.0	8.6
Nuclear	0	0	11,892	35,099	35,455	38,244	38,978	.0	4.0
Hydroelectric	2,499	3,288	5,621	5,947	5,964	5,867	5,945	.3	.6
Other Renewables	10,730	12,971	14,736	15,201	15,766	17,274	17,803	1.5	1.8
Pumped Storage	0	0	1,502	2,569	2,566	2,719	2,717	.0	.3
Other	501	550	510	427	642	625	687	.1	.1
Total Electric Industry									
Coal	734,122	769,463	811,719	848,254	905,301	948,446	962,942	100.0	100.0
Coal	307,361	311,386	315,114	314,230	315,350	313,019	313,020	41.9	32.5
Petroleum	48,994	43,708	35,890	39,714	38,213	36,429	33,702	6.7	3.5
Natural Gas	56,194	75,438	95,705	125,798	171,661	208,447	224,257	7.7	23.3
Other Gases	1,641	1,661	2,342	1,670	2,008	1,994	2,296	.2	.2
Dual Fired	113,582	121,958	149,833	153,482	162,289	171,295	172,170	15.5	17.9
Nuclear	99,624	99,515	97,860	98,159	98,657	99,209	99,628	13.6	10.3
Hydroelectric	73,923	78,562	79,359	78,914	79,354	78,694	77,641	10.1	8.1
Other Renewables	12,840	15,300	15,572	16,180	16,755	18,199	18,763	1.7	1.9
Pumped Storage	19,462	21,387	19,522	19,666	20,373	20,522	20,764	2.7	2.2
Other	501	550	523	440	641	638	700	.1	.1

See footnotes at end of tables.

Table 5. Electric Power Industry Generation by Primary Energy Source, 1990, 1995, and 2000 Through 2004
(Megawatthours)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
United States									
Electric Utilities	2,808,151,009	2,994,528,592	3,015,383,376	2,629,945,673	2,549,457,170	2,462,280,615	2,505,231,152	92.4	63.1
Coal.....	1,559,605,707	1,652,914,466	1,696,619,307	1,560,145,542	1,514,669,950	1,500,281,112	1,513,640,806	51.3	38.1
Petroleum.....	117,016,961	60,844,256	72,179,917	78,907,846	59,124,873	69,930,456	73,693,695	3.9	1.9
Natural Gas.....	264,089,401	307,306,050	290,715,178	264,433,673	229,639,287	186,966,796	199,662,044	8.7	5.0
Other Gases.....	0	0	0	0	206,469	242,655	374,012	.0	*
Nuclear.....	576,861,678	673,402,123	705,432,806	534,207,221	507,379,828	458,828,821	475,682,277	19.0	12.0
Hydroelectric.....	283,433,659	296,377,840	253,154,717	197,803,985	242,302,069	249,621,996	245,545,963	9.3	6.2
Other Renewables.....	10,651,344	6,408,988	2,241,015	2,151,888	3,568,503	3,940,660	4,061,017	.4	.1
Pumped Storage.....	-3,507,741	-2,725,131	-4,959,564	-7,704,482	-7,433,807	-7,531,885	-7,526,206	-.1	-.2
Other.....	0	0	0	0	0	0	97,546	.0	*
Independent Power Producers and Combined									
Heat and Power	229,837,268	358,958,755	786,721,668	1,106,697,980	1,308,995,081	1,420,904,591	1,465,324,110	7.6	36.9
Coal.....	34,405,775	56,511,999	269,645,289	343,810,401	418,460,404	473,455,637	464,979,411	1.1	11.7
Petroleum.....	9,604,186	13,709,806	39,041,048	45,972,376	35,442,518	49,475,181	46,952,147	.3	1.2
Natural Gas.....	108,675,753	188,751,891	310,322,979	374,695,447	461,366,456	462,940,742	509,316,559	3.6	12.8
Other Gases.....	10,382,828	13,869,950	13,954,756	9,039,473	11,256,216	15,357,365	16,392,075	.3	.4
Nuclear.....	0	0	48,460,134	234,619,087	272,684,259	304,903,874	312,846,110	.0	7.9
Hydroelectric.....	9,432,186	14,454,903	22,417,882	19,157,059	22,026,762	26,184,333	22,871,343	.3	.6
Other Renewables.....	53,720,878	67,556,398	78,664,962	75,833,169	83,353,592	83,469,810	86,347,447	1.8	2.2
Pumped Storage.....	0	0	-579,296	-1,118,963	-1,309,121	-1,003,180	-962,004	.0	*
Other.....	3,615,662	4,103,808	4,793,914	4,689,931	5,713,990	6,120,827	6,581,015	.1	.2
Total Electric Industry									
Coal	1,594,011,482	1,709,426,465	1,966,264,596	1,903,955,943	1,933,130,354	1,973,736,749	1,978,620,217	52.5	49.8
Petroleum	126,621,147	74,554,062	111,220,965	124,880,222	94,567,391	119,405,637	120,645,842	4.2	3.0
Natural Gas	372,765,154	496,057,941	601,038,157	639,129,120	691,005,743	649,907,538	708,978,603	12.3	17.9
Other Gases	10,382,828	13,869,950	13,954,756	9,039,473	11,462,685	15,600,020	16,766,087	.3	.4
Nuclear	576,861,678	673,402,123	753,892,940	768,826,308	780,064,087	763,732,695	788,528,387	19.0	19.9
Hydroelectric	292,865,845	310,832,743	275,572,599	216,961,044	264,328,831	275,806,329	268,417,306	9.6	6.8
Other Renewables	64,372,222	73,965,386	80,905,977	77,985,057	86,922,095	87,410,470	90,408,464	2.1	2.3
Pumped Storage	-3,507,741	-2,725,131	-5,538,860	-8,823,445	-8,742,928	-8,535,065	-8,488,210	-.1	-.2
Other	3,615,662	4,103,808	4,793,914	4,689,931	5,713,990	6,120,827	6,678,561	.1	.2

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2000 Through 2004

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
United States							
Coal (cents per million Btu).....	145.5	131.8	120.0	123.2	125.5	128.2	136.1
Average heat value (Btu per pound).....	10,465	10,248	10,115	10,200	10,157	10,137	10,074
Average sulfur Content (percent).....	1.3	1.1	.9	.9	.9	1.0	1.0
Petroleum (cents per million Btu).....	335.3	256.6	417.9	369.3	334.3	433.5	429.4
Average heat value (Btu per gallon).....	149,536	149,371	149,857	147,857	143,493	147,086	147,286
Average sulfur Content (percent).....	1.0	1.2	1.3	1.4	1.6	1.5	1.7
Natural Gas (cents per million Btu).....	232.1	198.4	430.2	448.7	356.0	539.3	596.1
Average heat value (Btu per cubic foot).....	1,027	1,019	1,020	1,020	1,021	1,030	1,027

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2000 Through 2004
(Thousand Metric Tons)

Emission Type	1990	1995	2000	2001	2002	2003	2004
United States							
Sulfur Dioxide							
Coal	14,281	11,006	10,286	9,917	9,681	9,687	9,437
Petroleum.....	937	613	785	850	610	718	633
Natural Gas	1	1	3	5	2	2	2
Other.....	243	275	223	194	221	235	235
Total.....	15,462	11,898	11,297	10,966	10,515	10,643	10,307
Nitrogen Oxide							
Coal	7,119	7,035	4,485	4,169	4,041	3,679	3,349
Petroleum.....	208	122	175	191	134	189	181
Gas.....	513	599	596	564	493	314	279
Other.....	122	129	123	121	133	145	142
Total.....	7,961	7,885	5,380	5,045	4,802	4,326	3,951
Carbon Dioxide							
Coal	1,569,015	1,699,207	1,960,035	1,896,701	1,913,591	1,948,054	1,952,605
Petroleum.....	121,295	77,083	105,980	114,399	89,812	110,519	112,573
Gas.....	234,962	300,041	359,916	364,948	376,701	343,071	364,936
Geothermal.....	397	344	362	353	369	367	377
Other.....	3,595	3,087	3,101	3,201	14,759	13,793	13,952
Total.....	1,929,264	2,079,761	2,429,394	2,379,603	2,395,232	2,415,804	2,444,443

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1990, 1995, and 2000 Through 2004

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
United States									
Retail Sales (thousand megawatthours)									
Residential.....	924,019	1,042,501	1,192,446	1,201,148	1,265,403	1,273,597	1,293,587	34.1	36.5
Commercial	751,027	862,685	1,055,232	1,087,987	1,104,748	1,197,199	1,229,045	27.7	34.6
Industrial.....	945,522	1,012,693	1,064,239	984,511	990,139	1,011,617	1,018,522	34.9	28.7
Other	91,988	95,407	109,496	108,445	105,790	NA	NA	3.4	NA
Transportation.....	NA	NA	NA	NA	NA	6,810	7,064	NA	.2
Total.....	2,712,555	3,013,287	3,421,414	3,382,092	3,466,080	3,489,223	3,548,218	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	72,378	87,610	98,209	103,665	107,106	110,794	116,037	40.6	42.9
Commercial	55,117	66,365	78,405	86,536	87,296	95,759	100,255	30.9	37.1
Industrial.....	44,857	47,175	49,369	49,058	48,643	51,794	53,661	25.2	19.8
Other	5,891	6,567	7,179	8,065	7,143	NA	NA	3.3	NA
Transportation.....	NA	NA	NA	NA	NA	514	504	NA	.2
Total.....	178,243	207,717	233,163	247,325	250,189	258,861	270,456	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.83	8.40	8.24	8.63	8.46	8.70	8.97	NA	NA
Commercial	7.34	7.69	7.43	7.95	7.90	8.00	8.16	NA	NA
Industrial.....	4.74	4.66	4.64	4.98	4.91	5.12	5.27	NA	NA
Other.....	6.40	6.88	6.56	7.44	6.75	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.55	7.13	NA	NA
Total.....	6.57	6.89	6.81	7.31	7.22	7.42	7.62	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
United States								
Number of Entities.....	219	2,011	9	884	55	155	75	3,408
Number of Retail Customers.....	96,988,168	19,628,710	39,843	16,564,780	265	2,897,411	NA	136,119,177
Retail Sales (thousand megawatthours)	2,356,057	525,596	41,169	344,267	7,817	273,311	NA	3,548,218
Percentage of Retail Sales	66.40	14.81	1.16	9.70	.22	7.70	NA	100.00
Revenue from Retail Sales (million dollars)	179,854	37,734	1,211	25,448	464	16,964	8,780	270,456
Percentage of Revenue.....	66.50	13.95	.45	9.41	.17	6.27	3.25	100.00
Average Retail Price (cents/kWh).....	7.63	7.18	2.94	7.39	5.94	6.21	3.21	7.62

Table 9 Notes: Data are shown for All Sectors. **Full Service Providers** sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as Independent Power Producers or other full service providers) prior to delivery. **Other Providers** sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its service. The cooperative will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

Other Notes: NA = Not applicable; NM = Not meaningful;
W = Withheld to avoid disclosure of individual company data;

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '*'.)
Totals may not equal sum of components because of independent rounding; Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

Direct Use is commercial or industrial use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.