

**United States**

**Table 1. 1999 Summary Statistics**

Item	Value	Highest	Lowest
<b>United States</b>			
Primary Energy Source .....	Coal		
Net Summer Capability (megawatts).....	793,956	Texas	District of Columbia
Utility.....	639,324	Texas	Rhode Island
Nonutility.....	154,633	California	Nebraska
Net Generation (megawatthours).....	3,728,363,638	Texas	District of Columbia
Utility.....	3,173,673,550	Texas	Rhode Island
Nonutility.....	554,690,088	California	Kansas
Emissions (thousand short tons)			
Sulfur Dioxide.....	11,967	West Virginia	Rhode Island
Nitrogen Oxide.....	7,883	Texas	Vermont
Carbon Dioxide.....	2,440,262	Texas	Vermont
Sulfur Dioxide/sq. mile.....	3	West Virginia	Vermont
Nitrogen Oxide/sq. mile.....	2	Indiana	Vermont
Carbon Dioxide/sq. mile.....	710	Massachusetts	Idaho
Electricity Consumption (MWh) (excludes line losses).....	3,704,544,069	Texas	Vermont
Utility Retail Electricity Sales (megawatthours).....	3,235,899,039	Texas	Alaska
Unregulated Retail Electricity Sales (megawatthours).....	76,188,042	Pennsylvania	Ohio
Nonutility Retail Sales and Direct Use (megawatthours).....	189,214,388	Texas	Kansas
Utility Average Retail Price (cents/kWh).....	6.66	Hawaii	Idaho

**Table 2. Ten Largest Plants by Generating Capability, 1999**

Plant	Energy Sources	Operating Company	Net Capability (MW)
<b>United States</b>			
1. Grand Coulee .....	Hydro	Bureau of Reclamation	7,079
2. Joliet 29.....	Coal	Midwest Generation LLC	6,588
3. W A Parish .....	Gas, Coal	Reliant Energy HL&P	3,783
4. Palo Verde .....	Nuclear	Arizona Public Service Co	3,733
5. Scherer .....	Petroleum, Coal	Georgia Power Co	3,346
6. Browns Ferry .....	Nuclear	Tennessee Valley Authority	3,301
7. Bowen .....	Petroleum, Coal	Georgia Power Co	3,249
8. Gibson .....	Petroleum, Coal	PSI Energy Inc	3,131
9. Crystal River.....	Petroleum, Nuclear, Coal	Florida Power Corp	3,116
10. Monroe .....	Petroleum, Coal	Detroit Edison Co	3,014

**Table 3. Top Five Utilities Ranked by Retail Sales Within the U.S., 1999**  
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
<b>United States</b>					
A. TXU Electric Company.....	95,927,336	35,081,048	29,673,933	24,671,536	6,500,819
B. Florida Power & Light Company .....	84,450,082	44,108,106	35,456,942	3,940,575	944,459
C. Commonwealth Edison Company .....	83,500,597	23,715,724	29,124,844	22,473,975	8,186,054
D. Duke Energy Corporation .....	74,109,763	22,032,753	21,910,912	29,878,386	287,712
E. Georgia Power Company.....	70,972,000	19,404,709	23,715,486	27,300,355	551,450
Total .....	408,959,778	144,342,340	139,882,117	108,264,827	16,470,494

**Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1990, 1994, and 1999**  
(Megawatts)

Energy Source	1990	1994	1999	Annual Growth Rate 1990-1999 (Percent)	Percentage Share 1990	Percentage Share 1994	Percentage Share 1999
<b>United States</b>							
<b>Total Utility</b> .....	<b>690,465</b>	<b>702,229</b>	<b>639,324</b>	<b>-0.9</b>	<b>92.9</b>	<b>91.9</b>	<b>80.5</b>
Coal .....	299,946	301,098	277,780	-8	40.4	39.4	35.0
Petroleum .....	76,712	69,919	49,005	-4.9	10.3	9.2	6.2
Gas .....	121,187	133,794	123,431	.2	16.3	17.5	15.5
Nuclear .....	99,624	99,148	95,030	-5	13.4	13.0	12.0
Hydroelectric .....	90,885	95,995	93,067	.3	12.2	12.6	11.7
Other .....	2,111	2,275	1,010	-7.9	.3	.3	.1
<b>Total Nonutility</b> .....	<b>52,780</b>	<b>61,785</b>	<b>154,633</b>	<b>12.7</b>	<b>7.1</b>	<b>8.1</b>	<b>19.5</b>
Coal .....	8,249	9,664	43,957	20.4	1.1	1.3	5.5
Petroleum .....	1,415	2,112	3,360	10.1	.2	.3	.4
Gas .....	18,246	24,301	45,586	10.7	2.5	3.2	5.7
Petroleum/Gas Combined .....	9,119	8,620	37,919	17.2	1.2	1.1	4.8
Nuclear .....	—	—	1,542	—	—	—	.2
Hydroelectric .....	2,591	3,255	5,974	9.7	.3	.4	.8
Other .....	13,142	13,834	16,294	2.4	1.8	1.8	2.1
<b>Total Industry</b> .....	<b>743,246</b>	<b>764,014</b>	<b>793,956</b>	<b>.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal .....	308,195	310,761	321,737	.5	41.5	40.7	40.5
Petroleum .....	78,127	72,031	52,366	-4.3	10.5	9.4	6.6
Gas .....	139,433	158,096	169,017	2.2	18.8	20.7	21.3
Petroleum/Gas Combined .....	9,119	8,620	37,919	17.2	1.2	1.1	4.8
Nuclear .....	99,642	99,148	96,572	-3	13.4	13.0	12.2
Hydroelectric .....	93,476	99,250	99,041	.6	12.6	13.0	12.5
Other .....	15,253	16,108	17,304	1.4	2.1	2.1	2.2

**Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1990, 1994, and 1999**  
(Megawatthours)

Energy Source	1990	1994	1999	Annual Growth Rate 1990-1999 (Percent)	Percentage Share 1990	Percentage Share 1994	Percentage Share 1999
<b>United States</b>							
<b>Total Utility</b> .....	<b>2,808,151,009</b>	<b>2,910,712,079</b>	<b>3,173,673,550</b>	<b>1.4</b>	<b>90.9</b>	<b>89.5</b>	<b>85.1</b>
Coal .....	1,559,605,707	1,635,492,971	1,767,679,446	1.4	50.5	50.3	47.4
Petroleum .....	117,016,961	91,038,583	86,929,098	-3.2	3.8	2.8	2.3
Gas .....	264,089,401	291,114,905	296,381,322	1.3	8.5	8.9	7.9
Nuclear .....	576,861,678	640,439,832	725,036,130	2.6	18.7	19.7	19.4
Hydroelectric .....	279,925,918	243,693,113	293,931,583	.5	9.1	7.5	7.9
Other .....	10,651,344	8,932,675	3,715,971	-11.0	.3	.3	.1
<b>Total Nonutility</b> .....	<b>281,900,018</b>	<b>343,086,617</b>	<b>554,690,088</b>	<b>7.8</b>	<b>9.1</b>	<b>10.5</b>	<b>14.9</b>
Coal .....	39,033,212	56,197,354	125,621,534	13.9	1.3	1.7	3.4
Petroleum .....	10,797,149	14,463,980	21,361,769	7.9	.3	.4	.6
Gas .....	157,335,736	186,924,387	297,548,188	7.3	5.1	5.7	8.0
Nuclear .....	—	—	9,066,419	—	—	—	.2
Hydroelectric .....	9,733,894	13,094,665	21,530,209	9.2	.3	.4	.6
Other .....	64,887,341	72,354,245	79,561,969	2.3	2.1	2.2	2.1
<b>Total Industry</b> .....	<b>3,090,051,027</b>	<b>3,253,798,696</b>	<b>3,728,363,638</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal .....	1,598,638,919	1,691,690,325	1,893,300,980	1.9	51.7	52.0	50.8
Petroleum .....	127,814,110	105,502,563	108,290,867	-1.8	4.1	3.2	2.9
Gas .....	421,425,137	478,039,292	593,929,510	3.9	13.6	14.7	15.9
Nuclear .....	576,974,364	640,491,819	734,102,549	2.7	18.7	19.7	19.7
Hydroelectric .....	289,659,812	256,787,778	315,461,792	1.0	9.4	7.9	8.5
Other .....	75,538,685	81,286,920	83,277,940	1.1	2.4	2.5	2.2

**Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1990, 1994, and 1999**

Fuel	1990	1994	1999	Annual Growth Rate 1990-1999 (Percent)
<b>United States</b>				
Coal (1999 cents per million Btu) .....	176.4	148.0	121.6	-4.0
Average heat value (Btu per pound).....	10,465	10,338	10,163	-.3
Average sulfur Content(percent) .....	1.3	1.2	1.0	-3.2
Petroleum (1999 cents per million Btu) .....	410.2	271.7	252.7	-5.2
Average heat value (Btu per gallon).....	149,719	150,218	151,058	.1
Average sulfur Content(percent) .....	1.0	1.1	1.1	1.7
Gas (1999 cents per million Btu).....	281.4	243.4	257.4	-1.0
Average heat value (Btu per cubic foot) .....	1,027	1,023	1,019	-.1

**Table 7. Electric Power Industry Emissions Estimates, 1990, 1994, and 1999**  
(Thousand Short Tons)

Emission Type	1990	1994	1999	Annual Growth Rate 1990-1999 (Percent)
<b>United States</b>				
<b>Sulfur Dioxide</b>				
Coal .....	14,792	13,565	11,293	-2.9
Petroleum .....	651	644	672	.3
Other.....	2	1	1	-7.8
Total .....	15,445	14,210	11,966	-2.8
<b>Nitrogen Oxide</b>				
Coal .....	6,553	6,576	6,937	.6
Petroleum .....	159	143	170	.8
Gas.....	341	589	678	7.9
Other.....	4	83	95	42.4
Total .....	7,057	7,391	7,880	1.2
<b>Carbon Dioxide</b>				
Coal .....	1,644,070	1,788,963	2,022,479	2.3
Petroleum .....	105,348	100,885	126,401	2.0
Gas.....	164,347	273,821	345,334	8.6
Other.....	1,614	26,101	15,707	28.8
Total .....	1,915,379	2,189,770	2,509,922	3.0

**Table 8. Utility Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1990, 1994, and 1999**

Sector	1990	1994	1999	Annual Growth Rate 1990-1999 (Percent)	Percentage Share 1990	Percentage Share 1994	Percentage Share 1999
<b>United States</b>							
Utility Retail Sales (thousand megawatthours)							
Residential.....	924,019	1,008,482	1,140,761	2.4	34.1	34.4	35.3
Commercial.....	751,027	820,269	970,601	2.9	27.7	27.9	30.0
Industrial.....	945,522	1,007,981	1,017,783	.8	34.9	34.3	31.4
Other.....	91,988	97,830	106,754	1.7	3.4	3.3	3.3
Total.....	2,712,555	2,934,563	3,235,899	2.0	100.0	100.0	100.0
Retail Sales Revenue (million 1999 dollars)							
Residential.....	87,657	92,266	93,142	.7	40.6	41.7	43.2
Commercial.....	66,751	69,179	70,492	.6	30.9	31.3	32.7
Industrial.....	54,326	52,454	45,056	-2.1	25.2	23.7	20.9
Other.....	7,134	7,299	6,783	-6	3.3	3.3	3.1
Total.....	215,869	221,198	215,473	*	100.0	100.0	100.0
Average Revenue per Kilowatthour (cents/kWh) (1999 dollars)							
Residential.....	9.49	9.15	8.16	NA	NA	NA	NA
Commercial.....	8.89	8.43	7.26	NA	NA	NA	NA
Industrial.....	5.75	5.20	4.43	NA	NA	NA	NA
Other.....	7.76	7.46	6.35	NA	NA	NA	NA
Total.....	7.96	7.54	6.66	NA	NA	NA	NA

**Table 9. Utility Retail Sales Statistics, 1999**

Item	Investor-Owned	Public	Federal	Cooperative	Total
<b>United States</b>					
Number of Utilities.....	239	2,012	9	900	3,160
Number of Retail Customers.....	92,408,587	18,266,406	34,426	14,533,164	125,242,583
Retail Sales (thousand megawatthours).....	2,397,707	499,000	51,577	287,615	3,235,899
Percentage of Retail Sales.....	74.10	15.42	1.59	8.89	100.00
Revenue from Retail Sales (Million 1999 Dollars).....	163,665	31,427	1,262	19,119	215,473
Percentage of Revenue.....	75.96	14.59	.59	8.87	100.00

**Table A3. Selected Summary Statistics by State, 1999**

State	Primary Fuel Source	Industry Capacity		Industry Net Generation		Industry Sulfur Dioxide Emissions		Industry Nitrogen Oxide Emissions		Industry Carbon Dioxide Emissions	
		(MW)	Rank	(MWh)	Rank	(1000 Short Tons)	Rank	(1000 Short Tons)	Rank	(1000 Short Tons)	Rank
Alabama .....	Coal	22,683	12	120,865,327	9	476	10	263	11	78,746	11
Alaska .....	Gas	2,018	48	5,811,625	49	1	47	12	46	4,380	46
Arizona .....	Coal	15,260	21	84,011,898	19	64	32	132	24	43,684	22
Arkansas .....	Coal	9,684	30	46,621,562	28	71	31	97	31	30,639	33
California .....	Gas	53,157	2	191,584,475	3	*	48	134	22	71,411	13
Colorado .....	Coal	8,034	33	39,530,448	32	86	27	138	20	38,635	24
Connecticut .....	Nuclear	7,077	34	28,830,430	41	27	40	20	41	12,435	39
Delaware .....	Coal	2,452	46	6,877,054	47	27	39	13	45	6,074	44
District of Columbia .....	Petroleum	806	51	230,003	51	1	46	*	49	259	49
Florida .....	Coal	40,940	3	186,928,382	4	646	6	357	6	126,408	4
Georgia .....	Coal	25,011	10	117,680,805	10	482	9	226	12	82,049	10
Hawaii .....	Petroleum	2,322	47	10,502,515	46	17	42	18	43	8,867	41
Idaho .....	Hydro	3,021	42	14,403,948	43	0	49	0	51	228	50
Illinois .....	Nuclear	34,338	5	163,600,641	5	616	7	381	4	92,986	8
Indiana .....	Coal	22,023	13	121,593,549	8	811	4	490	2	128,131	2
Iowa .....	Coal	9,003	31	38,842,106	33	144	21	157	18	37,990	25
Kansas .....	Coal	10,067	29	42,070,297	30	89	26	137	21	36,417	28
Kentucky .....	Coal	16,542	20	93,107,763	16	796	5	369	5	105,601	6
Louisiana .....	Gas	20,202	14	90,095,717	18	128	22	154	19	55,290	17
Maine .....	Petroleum	2,956	43	12,958,073	44	5	45	15	44	6,309	43
Maryland .....	Coal	11,789	26	51,733,460	26	306	14	97	32	36,040	29
Massachusetts .....	Petroleum	11,805	25	41,519,373	31	113	23	91	33	47,766	21
Michigan .....	Coal	25,461	9	103,350,379	13	401	12	302	8	83,764	9
Minnesota .....	Coal	10,157	28	48,607,258	27	85	28	134	23	36,538	27
Mississippi .....	Coal	8,099	32	34,914,939	35	106	24	71	36	22,918	35
Missouri .....	Coal	16,858	18	73,827,206	21	248	16	285	10	69,697	14
Montana .....	Coal	5,829	38	31,482,591	38	17	43	65	37	20,805	36
Nebraska .....	Coal	5,846	37	30,057,082	40	58	33	91	34	20,471	37
Nevada .....	Coal	7,019	35	32,800,480	36	50	35	80	35	26,590	34
New Hampshire .....	Nuclear	2,851	45	16,205,923	42	48	36	11	47	5,382	45
New Jersey .....	Nuclear	16,651	19	56,994,767	23	48	37	53	38	19,688	38
New Mexico .....	Coal	5,539	39	32,581,151	37	56	34	127	25	32,592	32
New York .....	Nuclear	33,742	6	144,642,987	6	161	19	126	26	64,596	15
North Carolina .....	Coal	22,962	11	117,587,666	11	429	11	193	14	72,936	12
North Dakota .....	Coal	4,710	41	31,421,208	39	155	20	115	27	34,553	31
Ohio .....	Coal	27,391	7	142,401,284	7	1225	2	472	3	127,361	3
Oklahoma .....	Coal	13,690	23	55,015,641	25	91	25	162	17	49,095	18
Oregon .....	Hydro	11,192	27	56,708,443	24	14	44	24	40	7,179	42
Pennsylvania .....	Coal	36,627	4	195,645,131	2	866	3	324	7	124,016	5
Rhode Island .....	Gas	981	50	6,411,395	48	0	50	6	48	3,905	48
South Carolina .....	Nuclear	18,158	17	90,329,552	17	248	15	98	30	37,022	26
South Dakota .....	Hydro	2,895	44	10,557,027	45	23	41	19	42	4,206	47
Tennessee .....	Coal	18,374	16	93,418,718	15	390	13	174	16	58,229	16
Texas .....	Coal	76,272	1	359,448,054	1	516	8	697	1	258,128	1
Utah .....	Coal	5,234	40	36,812,340	34	28	38	106	29	35,173	30
Vermont .....	Nuclear	992	49	5,709,117	50	0	51	*	50	45	51
Virginia .....	Coal	18,767	15	74,165,383	20	214	17	111	28	42,357	23
Washington .....	Hydro	26,106	8	117,135,248	12	73	30	48	39	11,907	40
West Virginia .....	Coal	15,061	22	94,780,925	14	1227	1	300	9	93,424	7
Wisconsin .....	Coal	13,136	24	58,500,237	22	197	18	197	13	48,949	19
Wyoming .....	Coal	6,110	36	43,632,486	29	85	29	185	15	48,050	20

**Table A3. Selected Summary Statistics by State, 1999 (Continued)**

State	Industry Electricity Consumption (excluding losses)		Utility Retail Sales		Nonutility Retail Sales and Direct Use		Utility Average Electricity Price	
	(MWh)	Rank	(MWh)	Rank	(MWh)	Rank	(cents/kWh)	Rank
Alabama	87,214,581	16	80,401,079	15	6,813,502	7	5.54	38
Alaska	6,352,097	50	5,292,615	51	1,059,482	28	9.78	7
Arizona	58,146,102	24	57,661,946	23	484,156	37	7.23	14
Arkansas	42,234,024	29	39,788,746	30	2,445,278	18	5.68	34
California	261,052,411	2	211,981,140	2	26,221,532	2	9.34	9
Colorado	40,954,876	30	40,570,923	29	383,953	39	5.95	28
Connecticut	30,664,185	33	29,803,004	33	861,181	29	9.96	6
Delaware	11,162,836	43	10,493,508	43	610,463	31	7.12	16
District of Columbia	10,417,813	44	10,417,813	44	N/A	N/A	7.45	13
Florida	194,183,356	3	187,270,257	3	6,913,099	6	6.85	19
Georgia	118,305,874	9	112,655,746	8	5,650,128	8	6.24	24
Hawaii	9,968,972	46	9,381,139	46	587,833	34	11.97	1
Idaho	22,833,365	37	21,846,394	38	110,971	45	3.98	51
Illinois	136,878,532	7	132,236,849	5	4,196,993	11	6.98	18
Indiana	102,079,876	11	96,735,464	10	5,344,412	9	5.29	43
Iowa	39,461,216	31	38,033,812	31	1,427,404	24	5.93	29
Kansas	33,865,864	32	33,820,108	32	45,756	49	6.22	25
Kentucky	79,696,434	17	79,098,015	16	598,419	32	4.17	49
Louisiana	99,701,823	13	78,266,678	17	21,435,145	3	5.81	33
Maine	15,531,355	40	11,943,634	41	3,587,721	13	9.77	8
Maryland	59,683,571	23	59,086,225	22	597,346	33	7.04	17
Massachusetts	54,139,401	25	47,820,780	25	4,731,957	10	9.16	10
Michigan	107,025,446	10	103,479,677	9	3,044,440	15	7.14	15
Minnesota	60,169,575	22	57,399,085	24	2,770,490	17	5.83	32
Mississippi	46,403,946	28	43,979,792	28	2,424,154	20	5.65	35
Missouri	69,365,180	20	68,975,652	20	320,210	41	6.07	26
Montana	13,457,013	41	12,131,855	40	175,414	43	5.01	45
Nebraska	22,886,127	36	22,810,012	36	76,115	47	5.31	42
Nevada	26,485,516	35	26,253,307	35	232,209	42	5.93	30
New Hampshire	10,350,798	45	9,722,869	45	462,720	38	11.75	2
New Jersey	73,139,510	19	70,581,680	19	2,436,357	19	9.99	5
New Mexico	18,600,102	39	17,997,502	39	558,800	36	6.58	20
New York	147,475,791	5	129,834,391	6	8,098,150	5	10.40	3
North Carolina	118,691,057	8	115,015,125	7	3,675,932	12	6.44	21
North Dakota	9,272,624	47	9,112,193	47	160,431	44	5.49	40
Ohio	165,679,717	4	164,270,662	4	1,408,887	25	6.40	22
Oklahoma	47,858,924	27	46,736,630	27	1,122,294	27	5.37	41
Oregon	48,105,197	26	46,996,366	26	561,490	35	4.87	46
Pennsylvania	137,383,165	6	96,023,410	11	8,499,852	4	7.67	12
Rhode Island	7,205,851	49	6,654,512	49	55,778	48	9.02	11
South Carolina	74,991,184	18	73,303,562	18	1,687,622	23	5.57	37
South Dakota	7,922,354	48	7,922,354	48	N/A	N/A	6.35	23
Tennessee	96,647,744	14	93,180,379	13	3,467,365	14	5.63	36
Texas	345,481,011	1	301,844,180	1	43,636,831	1	6.04	27
Utah	22,230,990	38	21,879,032	37	351,958	40	4.86	47
Vermont	5,637,619	51	5,527,328	50	110,291	46	10.28	4
Virginia	95,236,644	15	93,032,468	14	2,204,176	21	5.86	31
Washington	100,436,978	12	94,155,336	12	1,406,654	26	4.10	50
West Virginia	28,987,811	34	27,144,008	34	1,843,803	22	5.09	44
Wisconsin	66,435,611	21	63,547,448	21	2,888,163	16	5.53	39