

DOE/EIA-0348(01)/2  
Released: April 15, 2011

# State Electricity Profiles 2009

**April 2011**

**U.S. Energy Information Administration**  
Assistant Administrator for Energy Statistics  
Office of Electricity, Renewables, and Uranium Statistics  
U.S. Department of Energy  
Washington, DC 20585

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# Contacts

## Questions regarding this report may be directed to:

U. S. Energy Information Administration, EI-23  
Office of Electricity, Renewables, and Uranium Statistics  
U.S. Department of Energy  
1000 Independence Avenue, S.W.  
Washington, D.C. 20585-0650

## Publication Coordinator:

Michelle Bowles (202/586-2430)  
email: [michelle.bowles@eia.gov](mailto:michelle.bowles@eia.gov)

## Questions of a specific nature should be directed to One of the following staff:

### *Capacity*

Patricia Hutchins (202/586-1029)  
email: [patricia.hutchins@eia.gov](mailto:patricia.hutchins@eia.gov)

### *Generation*

Channele Wirman (202/586-5356)  
email: [channele.wirman@eia.gov](mailto:channele.wirman@eia.gov)

Chris Cassar (202/586-5448)  
email: [christopher.cassar@eia.gov](mailto:christopher.cassar@eia.gov)

Ron S. Hankey (202/586-2630)  
email: [ronald.hankey@eia.gov](mailto:ronald.hankey@eia.gov)

### *Fuel*

Rebecca A. McNerney (202/586-4509)  
email: [rebecca.mcnerney@eia.gov](mailto:rebecca.mcnerney@eia.gov)

Channele Wirman (202/586-5356)  
email: [channele.wirman@eia.doe.gov](mailto:channele.wirman@eia.doe.gov)

Chris Cassar (202/586-5448)  
email: [christopher.cassar@eia.gov](mailto:christopher.cassar@eia.gov)

Ron S. Hankey (202/586-2630)  
email: [ronald.hankey@eia.gov](mailto:ronald.hankey@eia.gov)

### *Emissions*

Kevin G. Lillis (202/586-3704)  
email: [kevin.lillis@eia.gov](mailto:kevin.lillis@eia.gov)

### *Trade*

Michelle Bowles (202/586-2430)  
email: [michelle.bowles@eia.gov](mailto:michelle.bowles@eia.gov)

### *Retail Customers, Sales and Revenue*

Karen McDaniel (202/586-4280)  
email: [karen.mcdaniel@eia.gov](mailto:karen.mcdaniel@eia.gov)

Stephen Scott (202/586-5140)  
email: [stephen.scott@eia.gov](mailto:stephen.scott@eia.gov)

## Quality

The U.S. Energy Information Administration is committed to quality products and quality service. To ensure that this report meets the highest standards for quality, please forward your comments or suggestions about this publication to Michelle Bowles at (202-586-2430), or e-mail: [michelle.bowles@eia.gov](mailto:michelle.bowles@eia.gov)

For general inquiries about energy data, please contact the National Energy Information Center at 202-586-8800). Internet users may contact the center at: [infoctr@eia.gov](mailto:infoctr@eia.gov).

# Preface

The State Electricity Profiles 2009 presents a summary of State statistics. The objective of the publication is to provide industry decision makers, government policymakers, analysts, and the general public with historical data that may be used in understanding U.S. electricity markets. The State Electricity Profiles is prepared by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U.S. Energy Information Administration (EIA); U.S. Department of Energy.

Data in this report can be used in analytic studies to evaluate new legislation and are used by analysts, researchers, statisticians, and other professionals with regulatory, policy, and program responsibilities for Federal, State, and local governments.

The State Electricity Profiles presents a summary of key State statistics for 1999, and 2003 through 2009. The tables present summary statistics; ten largest plants by generating capacity; top five entities ranked by retail sales; electric power industry generating capacity by primary energy source; electric power industry generation of electricity by primary energy source; utility delivered fuel prices for coal, petroleum, and natural gas; electric power emissions estimates; retail sales, revenue, and average revenue per kilowatthour by sector; and utility retail sales statistics.

Data published in the State Electricity Profiles are compiled from five forms filed annually by electric utilities and other electric power producers.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Alabama</b>		
NERC Region(s).....		SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	31,389	9
Electric Utilities.....	23,285	8
Independent Power Producers & Combined Heat and Power.....	8,104	14
Net Generation (megawatthours).....	143,255,556	6
Electric Utilities.....	118,781,555	2
Independent Power Producers & Combined Heat and Power.....	24,474,001	12
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	285	7
Nitrogen Oxide.....	53	19
Carbon Dioxide.....	69,239	11
Sulfur Dioxide (lbs/MWh) .....	4.4	17
Nitrogen Oxide (lbs/MWh) .....	0.8	42
Carbon Dioxide (lbs/MWh).....	1,066	36
Total Retail Sales (megawatthours).....	82,844,602	16
Full Service Provider Sales (megawatthours) .....	82,844,602	14
Direct Use (megawatthours) .....	4,827,750	6
Average Retail Price (cents/kWh).....	8.83	26

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Alabama</b>			
1. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,274
2. James H Miller Jr.....	Coal	Alabama Power Co	2,739
3. Barry.....	Coal	Alabama Power Co	2,578
4. E C Gaston.....	Coal	Alabama Power Co	1,878
5. H Allen Franklin Combined Cycle.....	Gas	Southern Power Co	1,801
6. Joseph M Farley.....	Nuclear	Alabama Power Co	1,711
7. Widows Creek .....	Coal	Tennessee Valley Authority	1,604
8. Colbert.....	Coal	Tennessee Valley Authority	1,574
9. E B Harris Electric Generating Plant.....	Gas	Southern Power Co	1,256
10. Greene County.....	Coal	Alabama Power Co	1,237

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Alabama</b>						
1. Alabama Power Co.....	Investor-Owned	51,030,063	18,071,471	14,404,564	18,554,028	-
2. Huntsville City of .....	Public	5,046,252	2,370,866	1,662,881	1,012,505	-
3. Tennessee Valley Authority .....	Federal	4,846,104	-	-	4,846,104	-
4. Joe Wheeler Elec Member Corp.....	Cooperative	1,357,595	589,520	258,378	509,697	-
5. Baldwin County El Member Corp.....	Cooperative	1,237,999	805,624	432,375	-	-
Total Sales, Top Five Providers .....		63,518,013	21,837,481	16,758,198	24,922,334	-
Percent of Total State Sales .....		77	69	76	85	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Alabama</b>										
<b>Electric Utilities.....</b>	<b>21,462</b>	<b>23,007</b>	<b>23,186</b>	<b>23,252</b>	<b>23,218</b>	<b>23,182</b>	<b>23,144</b>	<b>23,285</b>	<b>94.7</b>	<b>74.2</b>
Coal.....	11,349	11,217	11,238	11,500	11,465	11,452	11,414	11,401	50.1	36.3
Petroleum.....	30	34	34	34	34	34	34	34	0.1	0.1
Natural Gas.....	2,076	3,550	3,627	3,471	3,440	3,440	3,440	3,593	9.2	11.4
Nuclear.....	5,000	4,972	5,008	5,008	5,008	4,985	4,985	4,985	22.1	15.9
Hydroelectric.....	3,007	3,234	3,280	3,240	3,271	3,272	3,272	3,272	13.3	10.4
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,194</b>	<b>7,154</b>	<b>7,461</b>	<b>7,442</b>	<b>7,446</b>	<b>7,432</b>	<b>8,078</b>	<b>8,104</b>	<b>5.3</b>	<b>25.8</b>
Coal.....	23	14	132	92	92	92	92	85	0.1	0.3
Petroleum.....	15	7	9	9	9	9	9	9	0.1	*
Natural Gas.....	310	6,585	6,681	6,688	6,664	6,657	7,284	7,319	1.4	23.3
Other Gases <sup>1</sup> .....	104	4	84	100	100	100	100	100	0.5	0.3
Other Renewables <sup>2</sup> .....	742	544	555	553	581	574	593	591	3.3	1.9
<b>Total Electric Industry.....</b>	<b>22,656</b>	<b>30,162</b>	<b>30,647</b>	<b>30,694</b>	<b>30,664</b>	<b>30,614</b>	<b>31,222</b>	<b>31,389</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	11,372	11,231	11,370	11,592	11,557	11,544	11,506	11,486	50.2	36.6
Petroleum.....	45	41	43	43	43	43	43	43	0.2	0.1
Natural Gas.....	2,385	10,136	10,308	10,159	10,104	10,098	10,724	10,912	10.5	34.8
Other Gases <sup>1</sup> .....	104	4	84	100	100	100	100	100	0.5	0.3
Nuclear.....	5,000	4,972	5,008	5,008	5,008	4,985	4,985	4,985	22.1	15.9
Hydroelectric.....	3,007	3,234	3,280	3,240	3,271	3,272	3,272	3,272	13.3	10.4
Other Renewables <sup>2</sup> .....	742	544	555	553	581	574	593	591	3.3	1.9

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Alabama</b>										
<b>Electric Utilities.....</b>	<b>113,908,581</b>	<b>126,845,720</b>	<b>124,554,606</b>	<b>126,303,893</b>	<b>124,365,180</b>	<b>124,273,167</b>	<b>128,054,895</b>	<b>118,781,555</b>	<b>94.4</b>	<b>82.9</b>
Coal.....	73,220,751	76,238,978	74,475,725	77,742,466	77,664,239	77,575,448	74,280,210	55,083,056	60.7	38.5
Petroleum.....	154,148	195,363	111,271	97,269	87,885	73,570	98,804	76,452	0.1	0.1
Natural Gas.....	1,881,686	6,069,559	7,705,600	6,625,354	7,450,174	8,162,908	8,543,211	11,368,420	1.6	7.9
Nuclear.....	30,892,394	31,676,953	31,635,789	31,694,223	31,911,096	34,325,127	38,992,641	39,716,204	25.6	27.7
Hydroelectric.....	7,759,602	12,664,867	10,626,221	10,144,581	7,251,786	4,136,114	6,136,148	12,535,373	6.4	8.8
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	3,882	2,050	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>6,748,927</b>	<b>10,641,502</b>	<b>12,800,165</b>	<b>11,644,688</b>	<b>16,530,261</b>	<b>19,553,104</b>	<b>17,815,000</b>	<b>24,474,001</b>	<b>5.6</b>	<b>17.1</b>
Coal.....	533,976	457,413	355,899	385,991	444,429	418,312	324,438	525,667	0.4	0.4
Petroleum.....	162,165	141,281	183,754	235,841	92,281	83,352	105,461	142,821	0.1	0.1
Natural Gas.....	1,466,859	6,174,039	8,271,419	7,244,097	11,957,048	15,068,868	13,819,708	20,248,663	1.2	14.1
Other Gases <sup>2</sup> .....	288,151	170,368	181,942	106,864	131,109	178,368	203,739	134,728	0.2	0.1
Other Renewables <sup>1</sup> .....	4,296,949	3,672,858	3,779,233	3,646,802	3,884,462	3,800,620	3,353,432	3,047,807	3.6	2.1
Other <sup>3</sup> .....	827	25,543	27,917	25,093	20,933	3,583	8,222	374,314	*	0.3
<b>Total Electric Industry.....</b>	<b>120,657,508</b>	<b>137,487,222</b>	<b>137,354,771</b>	<b>137,948,581</b>	<b>140,895,441</b>	<b>143,826,271</b>	<b>145,869,895</b>	<b>143,255,556</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	73,754,727	76,696,391	74,831,624	78,128,457	78,108,668	77,993,760	74,604,648	55,608,724	61.1	38.8
Petroleum.....	316,313	336,644	295,025	333,110	180,166	156,922	204,265	219,274	0.3	0.2
Natural Gas.....	3,348,545	12,243,598	15,977,019	13,869,451	19,407,222	23,231,776	22,362,919	31,617,083	2.8	22.1
Other Gases <sup>2</sup> .....	288,151	170,368	181,942	106,864	131,109	178,368	203,739	134,728	0.2	0.1
Nuclear.....	30,892,394	31,676,953	31,635,789	31,694,223	31,911,096	34,325,127	38,992,641	39,716,204	25.6	27.7
Hydroelectric.....	7,759,602	12,664,867	10,626,221	10,144,581	7,251,786	4,136,114	6,136,148	12,535,373	6.4	8.8
Other Renewables <sup>1</sup> .....	4,296,949	3,672,858	3,779,233	3,646,802	3,884,462	3,800,620	3,357,313	3,049,857	3.6	2.1
Other <sup>3</sup> .....	827	25,543	27,917	25,093	20,933	3,583	8,222	374,314	*	0.3

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Alabama</b>								
Coal (cents per million Btu) .....	148	W	W	W	211	W	271	W
Average heat value (Btu per pound).....	10,963	10,977	10,878	10,950	10,879	10,644	10,659	10,507
Average sulfur Content (percent).....	1.02	0.95	0.84	0.97	0.94	0.88	0.89	0.92
Petroleum (cents per million Btu) <sup>1</sup> .....	326	W	W	W	W	W	1,672	W
Average heat value (Btu per gallon).....	139,140	141,395	142,757	141,012	140,469	143,452	140,050	137,243
Average sulfur Content (percent).....	0.22	0.12	0.13	0.10	0.14	0.87	0.37	0.16
Natural Gas (cents per million Btu).....	295	561	606	925	709	700	973	425
Average heat value (Btu per cubic foot).....	1,011	1,039	1,035	1,041	1,036	1,031	1,028	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Alabama</b>								
<b>Sulfur Dioxide</b> .....								
Coal.....	515	425	385	428	430	423	335	262
Petroleum.....	3	1	1	1	1	1	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	34	26	23	26	26	25	29	22
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	552	453	409	456	458	449	364	285
<b>Nitrogen Oxide</b> .....								
Coal.....	170	136	120	118	110	108	98	41
Petroleum.....	2	1	*	1	*	*	*	*
Natural Gas.....	11	8	9	6	5	6	7	7
Other Gases.....	1	*	1	1	1	*	*	*
Other Renewables <sup>1</sup> .....	14	7	6	6	6	6	5	4
Other <sup>2</sup> .....	*	*	*	-	-	-	-	*
Total.....	197	152	136	131	122	121	111	53
<b>Carbon Dioxide</b> .....								
Coal.....	72,155 <sup>R</sup>	74,308 <sup>R</sup>	72,175 <sup>R</sup>	76,630 <sup>R</sup>	76,742 <sup>R</sup>	77,363 <sup>R</sup>	73,028 <sup>R</sup>	55,268
Petroleum.....	505	521	1,229	1,390	398	343	258	594
Natural Gas.....	4,074	6,397	7,884	6,800	8,990	10,682	9,827	13,354
Other <sup>2</sup> .....	18	60	40	32	24	10	22	22
Total.....	76,751 <sup>R</sup>	81,285 <sup>R</sup>	81,328 <sup>R</sup>	84,852 <sup>R</sup>	86,153 <sup>R</sup>	88,397 <sup>R</sup>	83,134 <sup>R</sup>	69,239

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Alabama</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	27,048	29,416	30,109	31,315	32,277	32,783	32,185	31,489	33.6	38.0
Commercial .....	18,145	20,411	21,166	21,608	22,120	22,873	22,533	21,918	22.6	26.5
Industrial .....	34,533	34,017	35,595	36,279	36,281	36,172	34,990	29,437	43.0	35.5
Other .....	676	NA	NA	NA	NA	NA	NA	NA	0.8	--
All Sectors .....	80,401	83,844	86,871	89,202	90,678	91,828	89,707	82,845	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,901	2,175	2,295	2,504	2,825	3,057	3,348	3,356	42.7	45.9
Commercial .....	1,187	1,399	1,506	1,620	1,809	1,991	2,223	2,204	26.6	30.1
Industrial.....	1,320	1,355	1,477	1,641	1,778	1,906	2,138	1,755	29.6	24.0
Other.....	47	NA	NA	NA	NA	NA	NA	NA	1.1	--
All Sectors .....	4,456	4,929	5,278	5,765	6,411	6,954	7,709	7,315	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.03	7.39	7.62	8.00	8.75	9.32	10.40	10.66	--	--
Commercial .....	6.54	6.85	7.12	7.50	8.18	8.70	9.87	10.05	--	--
Industrial.....	3.82	3.98	4.15	4.52	4.90	5.27	6.11	5.96	--	--
Other.....	7.02	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.54	5.88	6.08	6.46	7.07	7.57	8.59	8.83	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Alabama</b>								
Number of Entities.....	1	36	1	24	1	NA	NA	63
Number of Retail Customers .....	1,435,611	517,375	24	538,135	1	NA	NA	2,491,146
Retail Sales (thousand megawatthours).....	51,030	16,045	4,846	10,506	417	NA	NA	82,845
Percentage of Retail Sales .....	61.60	19.37	5.85	12.68	0.50	--	--	100.00
Revenue from Retail Sales (million dollars).....	4,497	1,388	245	1,177	8	NA	NA	7,315
Percentage of Revenue .....	61.48	18.98	3.34	16.09	0.11	--	--	100.00
Average Retail Price (cents/kWh).....	8.81	8.65	5.05	11.20	1.84	NA	NA	8.83

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Alabama</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	113,909	126,846	124,555	126,304	124,365	124,273	128,055	118,782
Independent Power Producers .....	49	4,065	6,127	4,821	7,103	9,202	10,683	15,302
Combined Heat and Power, Electric .....	747	1,311	1,446	2,174	4,683	5,705	2,569	4,606
<b>Electric Power Sector Generation Subtotal</b> .....	<b>114,704</b>	<b>132,221</b>	<b>132,127</b>	<b>133,299</b>	<b>136,152</b>	<b>139,180</b>	<b>141,307</b>	<b>138,690</b>
Combined Heat and Power, Industrial.....	5,953	5,266	5,227	4,650	4,744	4,646	4,562	4,566
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>5,953</b>	<b>5,266</b>	<b>5,227</b>	<b>4,650</b>	<b>4,744</b>	<b>4,646</b>	<b>4,562</b>	<b>4,566</b>
<b>Total Net Generation</b> .....	<b>120,658</b>	<b>137,487</b>	<b>137,355</b>	<b>137,949</b>	<b>140,895</b>	<b>143,826</b>	<b>145,870</b>	<b>143,256</b>
<b>Total Supply</b> .....	<b>120,658</b>	<b>137,487</b>	<b>137,355</b>	<b>137,949</b>	<b>140,895</b>	<b>143,826</b>	<b>145,870</b>	<b>143,256</b>
.....								
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	80,401	83,844	86,871	89,202	90,678	91,828	89,282	82,427
Facility Direct Retail Sales <sup>1</sup> .....	-	-	-	-	-	-	426	417
<b>Total Electric Industry Retail Sales</b> .....	<b>80,401</b>	<b>83,844</b>	<b>86,871</b>	<b>89,202</b>	<b>90,678</b>	<b>91,828</b>	<b>89,707</b>	<b>82,845</b>
<b>Direct Use</b> .....	<b>6,669</b>	<b>6,481</b>	<b>6,488</b>	<b>3,540</b>	<b>6,210</b>	<b>4,620<sup>R</sup></b>	<b>4,726<sup>R</sup></b>	<b>4,828</b>
<b>Estimated Losses</b> .....	<b>5,828</b>	<b>4,935</b>	<b>5,750</b>	<b>5,789<sup>R</sup></b>	<b>6,152</b>	<b>7,924<sup>R</sup></b>	<b>6,861<sup>R</sup></b>	<b>5,754</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>27,760</b>	<b>42,227</b>	<b>38,246</b>	<b>39,418<sup>R</sup></b>	<b>37,856</b>	<b>39,454<sup>R</sup></b>	<b>44,575<sup>R</sup></b>	<b>49,829</b>
<b>Total Disposition</b> .....	<b>120,658<sup>R</sup></b>	<b>137,487<sup>R</sup></b>	<b>137,355<sup>R</sup></b>	<b>137,949<sup>R</sup></b>	<b>140,895<sup>R</sup></b>	<b>143,826<sup>R</sup></b>	<b>145,870<sup>R</sup></b>	<b>143,256</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.30</b>	<b>1.44</b>	<b>1.39</b>	<b>1.40</b>	<b>1.37</b>	<b>1.38<sup>R</sup></b>	<b>1.44<sup>R</sup></b>	<b>1.53</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Alaska</b>		
NERC Region(s).....		--
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	2,012	48
Electric Utilities.....	1,868	39
Independent Power Producers & Combined Heat and Power.....	144	50
Net Generation (megawatthours).....	6,702,159	49
Electric Utilities.....	6,166,762	40
Independent Power Producers & Combined Heat and Power.....	535,398	48
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	4	46
Nitrogen Oxide.....	17	38
Carbon Dioxide.....	4,240	45
Sulfur Dioxide (lbs/MWh) .....	1.2	39
Nitrogen Oxide (lbs/MWh) .....	5.5	2
Carbon Dioxide (lbs/MWh).....	1,395	22
Total Retail Sales (megawatthours).....	6,269,927	50
Full Service Provider Sales (megawatthours) .....	6,269,927	47
Direct Use (megawatthours) .....	337,332	38
Average Retail Price (cents/kWh).....	15.09	6

There is no NERC Region for Alaska. This is shown as "--" in the table.

MWh = Megawatthours.

kWh = Kilowatthours.

-- = Not applicable.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Alaska</b>			
1. Beluga.....	Gas	Chugach Electric Assn Inc	344
2. George M Sullivan Generation Plant 2 .....	Gas	Anchorage Municipal Light and Power	220
3. North Pole.....	Petroleum	Golden Valley Elec Assn Inc	137
4. Bradley Lake.....	Hydroelectric	Homer Electric Assn Inc	126
5. Anchorage 1.....	Gas	Anchorage Municipal Light and Power	91
6. Snettisham .....	Hydroelectric	Alaska Electric Light&Power Co	78
7. Bernice Lake.....	Gas	Chugach Electric Assn Inc	62
8. Lemon Creek .....	Petroleum	Alaska Electric Light&Power Co	58
9. Eklutna Hydro Project .....	Hydroelectric	Anchorage Municipal Light and Power	44
10. International.....	Gas	Chugach Electric Assn Inc	42

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Alaska</b>						
1. Golden Valley Elec Assn Inc .....	Cooperative	1,310,483	307,809	141,444	861,230	-
2. Chugach Electric Assn Inc .....	Cooperative	1,183,705	551,740	599,519	32,446	-
3. Anchorage Municipal Light and Power .....	Public	1,115,964	147,643	968,321	-	-
4. Matanuska Electric Assn Inc .....	Cooperative	698,930	438,691	260,239	-	-
5. Homer Electric Assn Inc .....	Cooperative	483,149	176,400	178,680	128,069	-
Total Sales, Top Five Providers .....		4,792,231	1,622,283	2,148,203	1,021,745	-
Percent of Total State Sales .....		76	77	76	78	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Alaska</b>										
<b>Electric Utilities.....</b>	<b>1,744</b>	<b>1,753</b>	<b>1,722</b>	<b>1,769</b>	<b>1,736</b>	<b>1,820</b>	<b>1,847</b>	<b>1,868</b>	<b>86.2</b>	<b>92.8</b>
Coal.....	25	25	25	52	25	25	25	25	1.2	1.2
Petroleum.....	593	529	517	526	527	581	601	604	29.3	30.0
Natural Gas.....	752	803	785	785	785	814	818	818	37.2	40.6
Hydroelectric.....	374	396	395	397	397	397	400	414	18.5	20.6
Other Renewables <sup>1</sup> .....	*	1	1	10	3	3	3	7	*	0.4
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>279</b>	<b>142</b>	<b>129</b>	<b>121</b>	<b>148</b>	<b>142</b>	<b>148</b>	<b>144</b>	<b>13.8</b>	<b>7.2</b>
Coal.....	83	60	60	53	80	80	87	86	4.1	4.2
Petroleum.....	58	50	48	48	48	41	41	40	2.9	2.0
Natural Gas.....	138	32	20	20	20	20	20	19	6.8	0.9
<b>Total Electric Industry.....</b>	<b>2,022</b>	<b>1,895</b>	<b>1,851</b>	<b>1,890</b>	<b>1,884</b>	<b>1,961</b>	<b>1,995</b>	<b>2,012</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	108	85	85	105	105	105	112	111	5.4	5.5
Petroleum.....	651	579	565	574	575	622	643	644	32.2	32.0
Natural Gas.....	889	835	805	805	805	834	838	836	44.0	41.6
Hydroelectric.....	374	396	395	397	397	397	400	414	18.5	20.6
Other Renewables <sup>1</sup> .....	*	1	1	10	3	3	3	7	*	0.4

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Alaska</b>										
<b>Electric Utilities.....</b>	<b>4,609,315</b>	<b>5,673,462</b>	<b>5,866,420</b>	<b>5,946,148</b>	<b>6,068,520</b>	<b>6,146,078</b>	<b>6,262,148</b>	<b>6,166,762</b>	<b>79.4</b>	<b>92.0</b>
Coal.....	156,188	167,555	211,075	219,320	209,952	213,648	220,360	212,944	2.7	3.2
Petroleum.....	798,039	775,374	681,848	685,559	694,252	852,882	927,681	1,104,493	13.8	16.5
Natural Gas.....	2,838,480	3,147,997	3,475,477	3,576,738	3,939,921	3,788,325	3,942,237	3,518,554	48.9	52.5
Hydroelectric.....	816,608	1,582,536	1,498,020	1,463,942	1,223,607	1,291,223	1,171,801	1,323,744	14.1	19.8
Other Renewables <sup>1</sup> .....	-	-	-	589	788	-	68	7,027	-	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,192,993</b>	<b>665,270</b>	<b>660,297</b>	<b>630,511</b>	<b>605,677</b>	<b>675,313</b>	<b>512,687</b>	<b>535,398</b>	<b>20.6</b>	<b>8.0</b>
Coal.....	367,181	382,109	437,905	404,998	407,467	427,762	397,537	417,648	6.3	6.2
Petroleum.....	76,217	70,900	65,220	73,370	73,736	157,108	50,233	52,389	1.3	0.8
Natural Gas.....	749,595	206,485	147,956	146,888	117,809	79,214	60,235	58,849	12.9	0.9
Other Renewables <sup>1</sup> .....	-	5,777	9,217	5,256	6,665	11,230	4,682	6,511	-	0.1
<b>Total Electric Industry.....</b>	<b>5,802,308</b>	<b>6,338,732</b>	<b>6,526,717</b>	<b>6,576,659</b>	<b>6,674,197</b>	<b>6,821,392</b>	<b>6,774,834</b>	<b>6,702,159</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	523,369	549,664	648,980	624,318	617,419	641,409	617,897	630,592	9.0	9.4
Petroleum.....	874,256	846,274	747,068	758,929	767,988	1,009,990	977,915	1,156,882	15.1	17.3
Natural Gas.....	3,588,075	3,354,482	3,623,433	3,723,626	4,057,730	3,867,539	4,002,472	3,577,403	61.8	53.4
Hydroelectric.....	816,608	1,582,536	1,498,020	1,463,942	1,223,607	1,291,223	1,171,801	1,323,744	14.1	19.8
Other Renewables <sup>1</sup> .....	-	5,777	9,217	5,845	7,453	11,230	4,750	13,538	-	0.2

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Alaska</b>								
Coal (cents per million Btu) .....	-	-	-	-	-	-	W	W
Average heat value (Btu per pound).....	-	-	-	-	-	-	8,698	8,520
Average sulfur Content (percent) .....	-	-	-	-	-	-	0.33	0.50
Petroleum (cents per million Btu) <sup>1</sup> .....	-	-	-	1,026	1,542	-	W	W
Average heat value (Btu per gallon).....	-	-	-	138,800	138,993	-	128,050	130,881
Average sulfur Content (percent) .....	-	-	-	0.19	0.25	-	0.19	0.29
Natural Gas (cents per million Btu).....	159	229	279	342	365	358	W	W
Average heat value (Btu per cubic foot).....	1,000	1,000	1,000	1,000	1,000	1,000	1,007	1,007

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Alaska</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	8	2	2	2	2	2	2	2
Petroleum.....	4	3	2	2	2	2	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	-	-	-	-	-	*	*	*
Total.....	11	4	4	4	4	4	4	4
<b>Nitrogen Oxide .....</b>								
Coal.....	3	2	2	3	3	3	3	3
Petroleum.....	7	7	7	7	8	8	5	8
Natural Gas.....	9	6	15	7	7	6	6	6
Other Renewables <sup>1</sup> .....	-	*	*	*	*	*	*	*
Total.....	19	16	25	17	18	17	15	17
<b>Carbon Dioxide .....</b>								
Coal.....	1,441 <sup>R</sup>	1,243 <sup>R</sup>	1,318 <sup>R</sup>	1,291 <sup>R</sup>	1,299 <sup>R</sup>	1,312 <sup>R</sup>	1,351 <sup>R</sup>	1,334
Petroleum.....	760	724	656	643	655	777	671	829
Natural Gas.....	2,183	2,019	2,803	2,430	2,673	2,254	2,354	2,078
Total.....	4,384 <sup>R</sup>	3,986 <sup>R</sup>	4,777 <sup>R</sup>	4,364 <sup>R</sup>	4,627 <sup>R</sup>	4,343 <sup>R</sup>	4,376 <sup>R</sup>	4,240

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Alaska</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	1,866	1,987	2,062	2,062	2,120	2,114	2,129	2,117	35.3	33.8
Commercial .....	2,385	2,473	2,601	2,695	2,819	2,828	2,851	2,841	45.1	45.3
Industrial .....	844	1,104	1,126	1,156	1,243	1,384	1,344	1,311	15.9	20.9
Other .....	198	NA	NA	NA	NA	NA	NA	NA	3.7	--
All Sectors .....	5,293	5,564	5,788	5,913	6,182	6,327	6,325	6,270	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	208	238	256	274	314	321	352	363	40.2	38.4
Commercial .....	219	259	286	311	336	345	389	411	42.4	43.4
Industrial.....	62	87	94	107	143	175	191	172	11.9	18.2
Other.....	28	NA	NA	NA	NA	NA	NA	NA	5.4	--
All Sectors .....	517	584	636	693	794	840	932	946	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	11.16	11.98	12.44	13.30	14.83	15.18	16.55	17.14	--	--
Commercial .....	9.20	10.49	10.99	11.56	11.93	12.19	13.64	14.46	--	--
Industrial.....	7.32	7.86	8.33	9.29	11.54	12.63	14.17	13.15	--	--
Other.....	14.16	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	9.78	10.50	10.99	11.72	12.84	13.28	14.73	15.09	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Alaska</b>								
Number of Entities.....	18	35	NA	18	NA	NA	NA	71
Number of Retail Customers .....	27,979	58,564	NA	231,830	NA	NA	NA	318,373
Retail Sales (thousand megawatthours).....	517	1,669	NA	4,084	NA	NA	NA	6,270
Percentage of Retail Sales .....	8.24	26.62	--	65.14	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	85	201	NA	660	NA	NA	NA	946
Percentage of Revenue .....	8.99	21.21	--	69.80	--	--	--	100.00
Average Retail Price (cents/kWh).....	16.46	12.02	NA	16.17	NA	NA	NA	15.09

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Alaska</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	4,609	5,673	5,866	5,946	6,069	6,146	6,262	6,167
Independent Power Producers .....	-	-	-	-	-	80	-	-
Combined Heat and Power, Electric .....	227	162	182	174	187	210	177	209
<b>Electric Power Sector Generation Subtotal</b> .....	<b>4,836</b>	<b>5,836</b>	<b>6,049</b>	<b>6,120</b>	<b>6,256</b>	<b>6,436</b>	<b>6,439</b>	<b>6,376</b>
Combined Heat and Power, Commercial .....	153	230	269	245	231	238	225	217
Combined Heat and Power, Industrial.....	813	273	209	211	188	147	110	109
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>966</b>	<b>503</b>	<b>478</b>	<b>457</b>	<b>418</b>	<b>385</b>	<b>336</b>	<b>326</b>
<b>Total Net Generation</b> .....	<b>5,802</b>	<b>6,339</b>	<b>6,527</b>	<b>6,577</b>	<b>6,674</b>	<b>6,821</b>	<b>6,775</b>	<b>6,702</b>
<b>Total International Imports</b> .....	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Total Supply</b> .....	<b>5,804</b>	<b>6,340</b>	<b>6,528</b>	<b>6,578</b>	<b>6,675</b>	<b>6,823</b>	<b>6,776</b>	<b>6,703</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	5,293	5,564	5,788	5,913	6,182	6,327	6,325	6,270
<b>Total Electric Industry Retail Sales</b> .....	<b>5,293</b>	<b>5,564</b>	<b>5,788</b>	<b>5,913</b>	<b>6,182</b>	<b>6,327</b>	<b>6,325</b>	<b>6,270</b>
<b>Direct Use</b> .....	<b>1,051</b>	<b>1,078</b>	<b>1,079</b>	<b>330</b>	<b>289</b>	<b>267</b>	<b>328<sup>R</sup></b>	<b>337</b>
<b>Estimated Losses</b> .....	<b>384</b>	<b>325</b>	<b>361</b>	<b>483</b>	<b>504</b>	<b>511<sup>R</sup></b>	<b>522<sup>R</sup></b>	<b>433</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>-923</b>	<b>-627</b>	<b>-700</b>	<b>-147</b>	<b>-300</b>	<b>-282<sup>R</sup></b>	<b>-399<sup>R</sup></b>	<b>-337</b>
<b>Total Disposition</b> .....	<b>5,804<sup>R</sup></b>	<b>6,340<sup>R</sup></b>	<b>6,528<sup>R</sup></b>	<b>6,578<sup>R</sup></b>	<b>6,675<sup>R</sup></b>	<b>6,823<sup>R</sup></b>	<b>6,776<sup>R</sup></b>	<b>6,703</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>0.86</b>	<b>0.91</b>	<b>0.90</b>	<b>0.98</b>	<b>0.96</b>	<b>0.96<sup>R</sup></b>	<b>0.94<sup>R</sup></b>	<b>0.95</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Arizona</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	26,335	14
Electric Utilities.....	20,127	13
Independent Power Producers & Combined Heat and Power.....	6,209	16
Net Generation (megawatthours).....	111,971,250	12
Electric Utilities.....	89,640,192	11
Independent Power Producers & Combined Heat and Power.....	22,331,058	14
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	33	33
Nitrogen Oxide.....	62	15
Carbon Dioxide.....	53,524	15
Sulfur Dioxide (lbs/MWh) .....	0.6	43
Nitrogen Oxide (lbs/MWh) .....	1.2	29
Carbon Dioxide (lbs/MWh).....	1,054	38
Total Retail Sales (megawatthours).....	73,432,929	21
Full Service Provider Sales (megawatthours) .....	73,432,929	20
Direct Use (megawatthours) .....	344,107	37
Average Retail Price (cents/kWh).....	9.56	19

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Arizona</b>			
1. Palo Verde .....	Nuclear	Arizona Public Service Co	3,942
2. Navajo.....	Coal	Salt River Project	2,250
3. Gila River Power Station.....	Gas	Gila River Power Station LP	2,060
4. Springerville .....	Coal	Tucson Electric Power Co	1,614
5. Glen Canyon Dam .....	Hydroelectric	U S Bureau of Reclamation	1,312
6. Santan .....	Gas	Salt River Project	1,227
7. Mesquite Generating Station .....	Gas	Mesquite Power LLC	1,073
8. Harquahala Generating Project.....	Gas	New Harquahala Generating Co, LLC	1,054
9. Hoover Dam .....	Hydroelectric	U S Bureau of Reclamation	1,040
10. Cholla.....	Coal	Arizona Public Service Co	1,021

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Arizona</b>						
1. Arizona Public Service Co .....	Investor-Owned	28,173,296	13,214,097	12,745,766	2,213,433	-
2. Salt River Project.....	Public	26,181,333	12,505,098	10,821,974	2,854,261	-
3. Tucson Electric Power Co.....	Investor-Owned	9,370,743	3,905,696	2,239,271	3,225,776	-
4. UNS Electric, Inc.....	Investor-Owned	1,784,402	813,795	610,148	360,459	-
5. Morenci Water and Electric Co.....	Investor-Owned	1,191,331	13,714	15,074	1,162,543	-
Total Sales, Top Five Providers .....		66,701,105	30,452,400	26,432,233	9,816,472	-
Percent of Total State Sales .....		91	93	90	88	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Arizona</b>										
<b>Electric Utilities.....</b>	<b>15,091</b>	<b>16,193</b>	<b>16,141</b>	<b>18,860</b>	<b>19,566</b>	<b>19,551</b>	<b>19,717</b>	<b>20,127</b>	<b>98.9</b>	<b>76.4</b>
Coal.....	5,311	5,336	5,336	5,362	5,762	5,750	5,750	6,159	34.8	23.4
Petroleum.....	240	191	108	108	86	89	89	89	1.6	0.3
Natural Gas.....	2,919	3,908	3,955	6,566	6,897	6,891	6,987	6,987	19.1	26.5
Nuclear.....	3,733	3,825	3,804	3,875	3,872	3,872	3,942	3,942	24.5	15.0
Hydroelectric.....	2,705	2,706	2,710	2,720	2,720	2,720	2,720	2,720	17.7	10.3
Other Renewables <sup>1</sup> .....	1	11	12	13	13	13	13	13	*	*
Pumped Storage.....	182	216	216	216	216	216	216	216	1.2	0.8
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>171</b>	<b>7,316</b>	<b>8,162</b>	<b>6,044</b>	<b>6,041</b>	<b>6,028</b>	<b>6,144</b>	<b>6,209</b>	<b>1.1</b>	<b>23.6</b>
Coal.....	65	68	68	68	68	68	68	68	0.4	0.3
Petroleum.....	18	4	4	4	4	4	4	4	0.1	*
Natural Gas.....	88	7,245	8,091	5,969	5,967	5,954	6,044	6,044	0.6	23.0
Other Renewables <sup>1</sup> .....	-	-	-	3	3	3	29	93	-	0.4
<b>Total Electric Industry.....</b>	<b>15,262</b>	<b>23,510</b>	<b>24,303</b>	<b>24,904</b>	<b>25,608</b>	<b>25,579</b>	<b>25,861</b>	<b>26,335</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,376	5,404	5,404	5,430	5,830	5,818	5,818	6,227	35.2	23.6
Petroleum.....	258	195	112	112	90	93	93	93	1.7	0.4
Natural Gas.....	3,007	11,152	12,046	12,535	12,864	12,845	13,031	13,031	19.7	49.5
Nuclear.....	3,733	3,825	3,804	3,875	3,872	3,872	3,942	3,942	24.5	15.0
Hydroelectric.....	2,705	2,706	2,710	2,720	2,720	2,720	2,720	2,720	17.7	10.3
Other Renewables <sup>1</sup> .....	1	11	12	16	16	16	42	106	*	0.4
Pumped Storage.....	182	216	216	216	216	216	216	216	1.2	0.8

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Arizona</b>										
<b>Electric Utilities.....</b>	<b>83,095,924</b>	<b>80,348,246</b>	<b>81,351,521</b>	<b>82,914,964</b>	<b>84,355,976</b>	<b>88,825,573</b>	<b>94,452,931</b>	<b>89,640,192</b>	<b>99.0</b>	<b>80.1</b>
Coal.....	37,994,159	37,739,559	39,419,177	39,750,729	40,056,468	40,911,234	43,505,012	39,464,060	45.3	35.2
Petroleum.....	46,287	46,706	39,414	41,127	71,761	46,137	48,324	61,381	0.1	0.1
Natural Gas.....	4,557,054	6,580,927	6,812,355	10,739,962	13,232,997	14,325,573	14,234,893	12,823,631	5.4	11.5
Nuclear.....	30,415,572	28,581,053	28,112,609	25,807,446	24,012,231	26,782,391	29,250,496	30,661,851	36.3	27.4
Hydroelectric.....	9,758,817	7,074,984	6,973,147	6,410,064	6,792,904	6,597,671	7,285,902	6,427,345	11.6	5.7
Other Renewables <sup>1</sup> .....	-	41,426	48,259	58,271	41,063	37,156	33,774	32,444	-	*
Pumped Storage.....	324,035	283,590	-53,440	107,365	148,552	125,411	94,530	169,480	0.4	0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>797,249</b>	<b>14,047,972</b>	<b>23,212,622</b>	<b>18,563,690</b>	<b>20,036,552</b>	<b>24,515,397</b>	<b>25,006,241</b>	<b>22,331,058</b>	<b>1.0</b>	<b>19.9</b>
Coal.....	311,006	351,850	391,379	392,805	386,387	364,128	335,248	242,757	0.4	0.2
Petroleum.....	4,068	1,970	1,102	2,110	1,610	3,139	3,574	1,318	*	*
Natural Gas.....	477,391	12,351,714	21,452,588	18,153,051	19,636,050	24,143,648	24,587,536	21,915,538	0.6	19.6
Other Renewables <sup>1</sup> .....	4,784	3,843	4	15,724	12,504	4,483	79,884	169,877	*	0.2
Other <sup>2</sup> .....	-	1,338,595	1,367,550	-	-	-	-	1,567	-	*
<b>Total Electric Industry.....</b>	<b>83,893,173</b>	<b>94,396,218</b>	<b>104,564,143</b>	<b>101,478,654</b>	<b>104,392,528</b>	<b>113,340,970</b>	<b>119,459,172</b>	<b>111,971,250</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	38,305,165	38,091,409	39,810,556	40,143,534	40,442,855	41,275,362	43,840,260	39,706,817	45.7	35.5
Petroleum.....	50,355	48,676	40,516	43,237	73,371	49,276	51,897	62,699	0.1	0.1
Natural Gas.....	5,034,445	18,932,641	28,264,943	28,893,013	32,869,047	38,469,221	38,822,429	34,739,170	6.0	31.0
Nuclear.....	30,415,572	28,581,053	28,112,609	25,807,446	24,012,231	26,782,391	29,250,496	30,661,851	36.3	27.4
Hydroelectric.....	9,758,817	7,074,984	6,973,147	6,410,064	6,792,904	6,597,671	7,285,902	6,427,345	11.6	5.7
Other Renewables <sup>1</sup> .....	4,784	45,269	48,263	73,995	53,567	41,639	113,658	202,321	*	0.2
Pumped Storage.....	324,035	283,590	-53,440	107,365	148,552	125,411	94,530	169,480	0.4	0.2
Other <sup>2</sup> .....	-	1,338,595	1,367,550	-	-	-	-	1,567	-	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Arizona</b>								
Coal (cents per million Btu) .....	133	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	10,257	10,081	10,211	10,088	10,011	9,946	9,828	9,712
Average sulfur Content (percent).....	0.55	0.64	0.57	0.57	0.57	0.57	0.59	0.65
Petroleum (cents per million Btu) <sup>1</sup> .....	480	W	W	1,403	1,625	1,671	W	W
Average heat value (Btu per gallon).....	138,690	139,550	133,595	140,912	139,114	140,914	138,424	135,340
Average sulfur Content (percent).....	0.30	0.20	0.25	0.31	0.16	0.38	0.14	0.06
Natural Gas (cents per million Btu).....	264	506	572	804	636	670	837	407
Average heat value (Btu per cubic foot).....	1,011	1,021	1,021	1,025	1,018	1,022	1,028	1,022

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Arizona</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	72	63	55	48	45	51	44	33
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	-	-	-	-	*	-	*	*
Total.....	72	63	55	48	45	51	44	33
<b>Nitrogen Oxide .....</b>								
Coal.....	76	73	73	71	71	74	70	58
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	7	10	4	4	4	4	3	3
Other Gases.....	-	-	-	*	*	*	-	-
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	1
Other <sup>2</sup> .....	-	-	-	-	-	-	-	*
Total.....	84	83	78	75	75	79	73	62
<b>Carbon Dioxide .....</b>								
Coal.....	37,951 <sup>R</sup>	38,093 <sup>R</sup>	39,803 <sup>R</sup>	40,094 <sup>R</sup>	40,457 <sup>R</sup>	41,147 <sup>R</sup>	43,302 <sup>R</sup>	39,203
Petroleum.....	43	43	40	36	58	40	44	51
Natural Gas.....	2,978	9,123	13,057	11,874	13,496	15,269	15,545	14,270
Total.....	40,972 <sup>R</sup>	47,259 <sup>R</sup>	52,900 <sup>R</sup>	52,003 <sup>R</sup>	54,012 <sup>R</sup>	56,455 <sup>R</sup>	58,890 <sup>R</sup>	53,524

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Arizona</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	22,517	27,742	28,921	30,544	32,367	34,437	33,236	32,847	39.1	44.7
Commercial .....	19,776	25,425	26,106	27,468	28,626	30,475	30,162	29,386	34.3	40.0
Industrial .....	12,456	10,914	11,906	11,379	12,259	12,281	12,869	11,200	21.6	15.3
Other .....	2,912	NA	NA	NA	NA	NA	NA	NA	5.0	--
All Sectors .....	57,662	64,080	66,933	69,391	73,253	77,193	76,268	73,433	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,922	2,316	2,447	2,707	3,042	3,328	3,412	3,524	46.1	50.2
Commercial .....	1,484	1,803	1,901	2,032	2,295	2,519	2,693	2,748	35.6	39.2
Industrial.....	628	587	637	665	698	743	846	745	15.1	10.6
Other.....	136	NA	NA	NA	NA	NA	NA	NA	3.3	--
All Sectors .....	4,170	4,706	4,985	5,404	6,034	6,590	6,951	7,017	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.53	8.35	8.46	8.86	9.40	9.66	10.27	10.73	--	--
Commercial .....	7.51	7.09	7.28	7.40	8.02	8.27	8.93	9.35	--	--
Industrial.....	5.04	5.37	5.35	5.85	5.69	6.05	6.57	6.65	--	--
Other.....	4.66	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	7.23	7.34	7.45	7.79	8.24	8.54	9.11	9.56	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Arizona</b>								
Number of Entities.....	5	29	3	9	NA	NA	NA	46
Number of Retail Customers .....	1,611,825	1,039,620	17,921	181,749	NA	NA	NA	2,851,115
Retail Sales (thousand megawatthours).....	40,531	28,972	1,136	2,793	NA	NA	NA	73,433
Percentage of Retail Sales .....	55.20	39.45	1.55	3.80	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	4,031	2,613	51	322	NA	NA	NA	7,017
Percentage of Revenue .....	57.45	37.24	0.73	4.58	--	--	--	100.00
Average Retail Price (cents/kWh).....	9.95	9.02	4.51	11.52	NA	NA	NA	9.56

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Arizona</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	83,096	80,348	81,352	82,915	84,356	88,826	94,453	89,640
Independent Power Producers .....	-	11,851	20,891	16,390	17,617	22,209	24,217	21,713
Combined Heat and Power, Electric .....	434	1,823	1,874	1,689	1,959	1,853	370	301
<b>Electric Power Sector Generation Subtotal</b> .....	<b>83,530</b>	<b>94,023</b>	<b>104,116</b>	<b>100,994</b>	<b>103,932</b>	<b>112,888</b>	<b>119,040</b>	<b>111,655</b>
Combined Heat and Power, Commercial .....	36	17	51	72	72	71	70	72
Combined Heat and Power, Industrial.....	327	356	397	413	389	382	350	245
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>363</b>	<b>374</b>	<b>448</b>	<b>484</b>	<b>461</b>	<b>453</b>	<b>419</b>	<b>317</b>
<b>Total Net Generation</b> .....	<b>83,893</b>	<b>94,396</b>	<b>104,564</b>	<b>101,479</b>	<b>104,393</b>	<b>113,341</b>	<b>119,459</b>	<b>111,971</b>
<b>Total International Imports</b> .....	-	55	171	103	128	223	88	123
<b>Total Supply</b> .....	<b>83,893</b>	<b>94,451</b>	<b>104,735</b>	<b>101,582</b>	<b>104,520</b>	<b>113,564</b>	<b>119,547</b>	<b>112,094</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	57,662	64,080	66,933	69,391	73,253	77,193	76,268	73,433
<b>Total Electric Industry Retail Sales</b> .....	<b>57,662</b>	<b>64,080</b>	<b>66,933</b>	<b>69,391</b>	<b>73,253</b>	<b>77,193</b>	<b>76,268</b>	<b>73,433</b>
<b>Direct Use</b> .....	<b>363</b>	<b>374</b>	<b>374</b>	<b>502</b>	<b>269</b>	<b>494<sup>R</sup></b>	<b>456<sup>R</sup></b>	<b>344</b>
<b>Total International Exports</b> .....	-	71	94	183 <sup>R</sup>	310	221	351	354
<b>Estimated Losses</b> .....	<b>4,180</b>	<b>3,668</b>	<b>4,569</b>	<b>5,367<sup>R</sup></b>	<b>5,411</b>	<b>6,720<sup>R</sup></b>	<b>6,390<sup>R</sup></b>	<b>5,979</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>21,688</b>	<b>26,259</b>	<b>32,765</b>	<b>26,140<sup>R</sup></b>	<b>25,278</b>	<b>28,936<sup>R</sup></b>	<b>36,082<sup>R</sup></b>	<b>31,984</b>
<b>Total Disposition</b> .....	<b>83,893<sup>R</sup></b>	<b>94,451<sup>R</sup></b>	<b>104,735<sup>R</sup></b>	<b>101,582<sup>R</sup></b>	<b>104,520<sup>R</sup></b>	<b>113,564<sup>R</sup></b>	<b>119,547<sup>R</sup></b>	<b>112,094</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>1.35</b>	<b>1.39</b>	<b>1.46</b>	<b>1.35</b>	<b>1.32</b>	<b>1.34<sup>R</sup></b>	<b>1.43<sup>R</sup></b>	<b>1.40</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Arkansas</b>		
NERC Region(s).....		SERC/SPP
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	15,275	26
Electric Utilities.....	11,456	25
Independent Power Producers & Combined Heat and Power.....	3,819	25
Net Generation (megawatthours).....	57,457,739	25
Electric Utilities.....	45,423,149	19
Independent Power Producers & Combined Heat and Power.....	12,034,590	28
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	75	24
Nitrogen Oxide.....	37	29
Carbon Dioxide.....	30,427	31
Sulfur Dioxide (lbs/MWh) .....	2.9	24
Nitrogen Oxide (lbs/MWh) .....	1.4	24
Carbon Dioxide (lbs/MWh).....	1,167	30
Total Retail Sales (megawatthours).....	43,173,104	31
Full Service Provider Sales (megawatthours) .....	43,173,104	29
Direct Use (megawatthours) .....	1,916,328	16
Average Retail Price (cents/kWh).....	7.57	36

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Arkansas</b>			
1. Union Power Partners LP .....	Gas	Union Power Partners LP	2,020
2. Arkansas Nuclear One .....	Nuclear	Energy Arkansas Inc	1,835
3. Independence .....	Coal	Energy Arkansas Inc	1,678
4. White Bluff.....	Coal	Energy Arkansas Inc	1,658
5. Robert E Ritchie .....	Petroleum	Energy Arkansas Inc	860
6. Lake Catherine.....	Gas	Energy Arkansas Inc	720
7. Dell Power Station.....	Gas	Associated Electric Coop, Inc	679
8. Hot Spring Power Project.....	Gas	Hot Spring Power Co LLC	642
9. KGen Hot Spring Generating Facility.....	Gas	DEGS of O&M, LLC	630
10. Harry L. Oswald .....	Gas	Arkansas Electric Coop Corp	548

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Entergy Arkansas Inc.....	Investor-Owned	19,926,174	7,464,372	6,085,841	6,375,852	109
2. Southwestern Electric Power Co.....	Investor-Owned	3,903,926	1,068,640	1,324,451	1,510,835	-
3. Oklahoma Gas & Electric Co.....	Investor-Owned	2,558,915	711,958	854,857	992,100	-
4. Mississippi County Electric Coop.....	Cooperative	2,241,649	58,353	18,751	2,164,545	-
5. First Electric Coop Corp.....	Cooperative	1,670,459	1,117,596	171,568	381,295	-
Total Sales, Top Five Providers.....		30,301,123	10,420,919	8,455,468	11,424,627	109
Percent of Total State Sales.....		70	61	74	78	28

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Arkansas</b>										
<b>Electric Utilities.....</b>	<b>9,278</b>	<b>9,777</b>	<b>9,772</b>	<b>10,434</b>	<b>10,669</b>	<b>11,467</b>	<b>11,459</b>	<b>11,456</b>	<b>95.9</b>	<b>75.0</b>
Coal.....	3,680	3,745	3,745	3,793	3,846	3,846	3,861	3,864	38.1	25.3
Petroleum.....	29	25	25	23	23	22	22	22	0.3	0.1
Natural Gas.....	2,454	2,752	2,750	3,369	3,561	4,414	4,390	4,384	25.4	28.7
Nuclear.....	1,694	1,840	1,837	1,834	1,824	1,838	1,839	1,835	17.5	12.0
Hydroelectric.....	1,393	1,387	1,387	1,387	1,387	1,320	1,320	1,323	14.4	8.7
Pumped Storage.....	28	28	28	28	28	28	28	28	0.3	0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>392</b>	<b>3,772</b>	<b>3,766</b>	<b>3,625</b>	<b>3,838</b>	<b>3,828</b>	<b>3,806</b>	<b>3,819</b>	<b>4.1</b>	<b>25.0</b>
Natural Gas.....	137	3,468	3,468	3,327	3,535	3,525	3,484	3,484	1.4	22.8
Hydroelectric.....	1	1	1	1	1	1	1	13	*	0.1
Other Renewables <sup>1</sup> .....	254	303	297	297	302	302	322	323	2.6	2.1
<b>Total Electric Industry.....</b>	<b>9,670</b>	<b>13,549</b>	<b>13,538</b>	<b>14,059</b>	<b>14,507</b>	<b>15,296</b>	<b>15,266</b>	<b>15,275</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,680	3,745	3,745	3,793	3,846	3,846	3,861	3,864	38.1	25.3
Petroleum.....	29	25	25	23	23	22	22	22	0.3	0.1
Natural Gas.....	2,591	6,220	6,218	6,696	7,096	7,939	7,873	7,867	26.8	51.5
Nuclear.....	1,694	1,840	1,837	1,834	1,824	1,838	1,839	1,835	17.5	12.0
Hydroelectric.....	1,394	1,388	1,388	1,388	1,389	1,321	1,321	1,337	14.4	8.8
Other Renewables <sup>1</sup> .....	254	303	297	297	302	302	322	323	2.6	2.1
Pumped Storage.....	28	28	28	28	28	28	28	28	0.3	0.2

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Arkansas</b>										
<b>Electric Utilities.....</b>	<b>44,130,705</b>	<b>41,636,514</b>	<b>45,055,455</b>	<b>40,545,220</b>	<b>42,068,467</b>	<b>45,522,928</b>	<b>45,880,232</b>	<b>45,423,149</b>	<b>94.8</b>	<b>79.1</b>
Coal.....	24,612,079	23,422,401	25,248,810	22,940,659	24,095,405	25,642,175	25,993,257	24,986,333	52.9	43.5
Petroleum.....	141,475	263,982	476,133	162,961	135,291	76,212	57,158	80,962	0.3	0.1
Natural Gas.....	3,764,590	597,283	208,148	645,578	1,039,917	1,052,632	955,954	944,559	8.1	1.6
Nuclear.....	12,919,550	14,689,416	15,449,851	13,689,571	15,232,577	15,486,102	14,168,091	15,169,966	27.8	26.4
Hydroelectric.....	2,693,011	2,653,347	3,647,768	3,085,749	1,550,558	3,236,203	4,658,215	4,140,964	5.8	7.2
Pumped Storage.....	-	10,085	24,745	20,702	14,719	29,604	47,557	100,365	-	0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,423,234</b>	<b>8,764,588</b>	<b>6,872,177</b>	<b>7,249,289</b>	<b>10,100,236</b>	<b>9,073,308</b>	<b>9,170,296</b>	<b>12,034,590</b>	<b>5.2</b>	<b>20.9</b>
Coal.....	56,728	81,765	104,753	96,485	87,645	102,005	121,397	88,917	0.1	0.2
Petroleum.....	18,490	24,924	62,808	45,140	25,452	17,941	6,467	7,508	*	*
Natural Gas.....	778,006	6,703,577	4,860,616	5,360,082	8,242,469	7,311,619	7,505,120	10,276,854	1.7	17.9
Other Gases <sup>1</sup> .....	147	-	-	-	-	-	-	-	*	-
Hydroelectric.....	1,323	1,271	-4,329	-3,233	-	550	2,082	51,742	*	0.1
Other Renewables <sup>2</sup> .....	1,565,759	1,843,889	1,810,380	1,735,523	1,722,805	1,623,744	1,512,833	1,585,550	3.4	2.8
Other <sup>3</sup> .....	2,781	109,161	37,950	15,293	21,865	17,449	22,397	24,019	*	*
<b>Total Electric Industry.....</b>	<b>46,553,939</b>	<b>50,401,102</b>	<b>51,927,632</b>	<b>47,794,509</b>	<b>52,168,703</b>	<b>54,596,236</b>	<b>55,050,528</b>	<b>57,457,739</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	24,668,807	23,504,166	25,353,563	23,037,144	24,183,050	25,744,180	26,114,654	25,075,250	53.0	43.6
Petroleum.....	159,965	288,906	538,941	208,101	160,743	94,153	63,625	88,470	0.3	0.2
Natural Gas.....	4,542,596	7,300,860	5,068,764	6,005,660	9,282,386	8,364,251	8,461,073	11,221,413	9.8	19.5
Other Gases <sup>1</sup> .....	147	-	-	-	-	-	-	-	*	-
Nuclear.....	12,919,550	14,689,416	15,449,851	13,689,571	15,232,577	15,486,102	14,168,091	15,169,966	27.8	26.4
Hydroelectric.....	2,694,334	2,654,618	3,643,439	3,082,516	1,550,558	3,236,753	4,660,297	4,192,706	5.8	7.3
Other Renewables <sup>2</sup> .....	1,565,759	1,843,889	1,810,380	1,735,523	1,722,805	1,623,744	1,512,833	1,585,550	3.4	2.8
Pumped Storage.....	-	10,085	24,745	20,702	14,719	29,604	47,557	100,365	-	0.2
Other <sup>3</sup> .....	2,781	109,161	37,950	15,293	21,865	17,449	22,397	24,019	*	*

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Arkansas</b>								
Coal (cents per million Btu) .....	146	120	123	146	147	160	W	W
Average heat value (Btu per pound).....	8,651	8,758	8,761	8,745	8,778	8,717	8,711	8,700
Average sulfur Content (percent).....	0.27	0.28	0.28	0.27	0.29	0.26	0.28	0.27
Petroleum (cents per million Btu) <sup>1</sup> .....	329	646	726	1,001	1,356	1,479	W	W
Average heat value (Btu per gallon).....	140,807	140,479	140,321	140,450	141,386	140,424	140,843	143,538
Average sulfur Content (percent).....	0.28	0.41	0.46	0.49	0.51	0.46	1.03	0.74
Natural Gas (cents per million Btu).....	253	423	602	834	621	686	890	405
Average heat value (Btu per cubic foot).....	1,022	1,033	1,029	1,031	1,027	1,026	1,032	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Arkansas</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	72	65	71	60	66	65	66	62
Petroleum.....	1	2	3	1	1	1	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	13	13	13	36	15	16	11	12
Other <sup>2</sup> .....	-	-	-	1	*	*	1	1
Total.....	86	79	87	97	82	82	78	75
<b>Nitrogen Oxide .....</b>								
Coal.....	41	37	37	32	31	34	34	30
Petroleum.....	2	*	1	*	*	*	*	*
Natural Gas.....	9	6	2	2	2	2	2	2
Other Renewables <sup>1</sup> .....	5	5	5	10	5	6	5	5
Other <sup>2</sup> .....	*	-	-	*	*	*	*	*
Total.....	56	49	44	44	38	41	40	37
<b>Carbon Dioxide .....</b>								
Coal.....	25,390 <sup>R</sup>	23,969 <sup>R</sup>	25,615 <sup>R</sup>	23,412 <sup>R</sup>	24,403 <sup>R</sup>	26,193 <sup>R</sup>	26,545 <sup>R</sup>	25,221
Petroleum.....	185	265	560	277	214	128	68	92
Natural Gas.....	3,917	3,433	2,666	3,042	4,239	3,929	3,972	5,034
Other <sup>2</sup> .....	-	-	2	45	75	66	68	80
Total.....	29,491 <sup>R</sup>	27,667 <sup>R</sup>	28,844 <sup>R</sup>	26,775 <sup>R</sup>	28,931 <sup>R</sup>	30,316 <sup>R</sup>	30,653 <sup>R</sup>	30,427

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Arkansas</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	14,045	15,598	15,619	17,134	17,065	17,415	17,392	16,986	35.3	39.3
Commercial .....	8,374	10,568	10,731	11,366	11,581	11,801	11,703	11,477	21.0	26.6
Industrial .....	16,680	16,942	17,322	17,665	17,990	17,839	17,038	14,710	41.9	34.1
Other .....	690	NA	NA	NA	NA	NA	NA	NA	1.7	--
Transportation.....	NA	NA	NA	NA	NA	NA	*	*	--	*
All Sectors .....	39,789	43,108	43,672	46,165	46,636	47,055	46,135	43,173	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,043	1,130	1,150	1,371	1,511	1,521	1,613	1,552	46.1	47.5
Commercial .....	488	585	605	703	806	816	890	867	21.6	26.5
Industrial .....	688	685	720	837	943	936	1,004	847	30.4	25.9
Other .....	43	NA	NA	NA	NA	NA	NA	NA	1.9	--
Transportation.....	NA	NA	NA	NA	NA	NA	*	*	--	*
All Sectors .....	2,262	2,399	2,475	2,910	3,260	3,273	3,507	3,267	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.43	7.24	7.36	8.00	8.85	8.73	9.27	9.14	--	--
Commercial .....	5.82	5.54	5.64	6.18	6.96	6.91	7.61	7.56	--	--
Industrial .....	4.12	4.04	4.16	4.74	5.24	5.25	5.89	5.76	--	--
Other .....	6.26	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	NA	NA	NA	NA	11.79	12.32	--	--
All Sectors .....	5.68	5.57	5.67	6.30	6.99	6.96	7.60	7.57	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Arkansas</b>								
Number of Entities.....	4	15	NA	17	1	NA	NA	37
Number of Retail Customers .....	872,381	180,107	NA	471,946	1	NA	NA	1,524,435
Retail Sales (thousand megawatthours).....	26,527	5,676	NA	10,953	17	NA	NA	43,173
Percentage of Retail Sales .....	61.44	13.15	--	25.37	0.04	--	--	100.00
Revenue from Retail Sales (million dollars) .....	2,070	409	NA	788	*	NA	NA	3,267
Percentage of Revenue .....	63.35	12.51	--	24.13	0.01	--	--	100.00
Average Retail Price (cents/kWh).....	7.80	7.20	NA	7.20	2.50	NA	NA	7.57

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Arkansas</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	44,131	41,637	45,055	40,545	42,068	45,523	45,880	45,423
Independent Power Producers .....	1	5,030	3,204	3,997	6,966	6,311	5,940	8,786
Combined Heat and Power, Electric .....	-	1,550	1,436	1,215	1,151	847	1,286	1,361
<b>Electric Power Sector Generation Subtotal</b> .....	<b>44,132</b>	<b>48,216</b>	<b>49,695</b>	<b>45,757</b>	<b>50,186</b>	<b>52,681</b>	<b>53,106</b>	<b>55,571</b>
Combined Heat and Power, Commercial .....	12	7	4	4	4	2	3	3
Combined Heat and Power, Industrial.....	2,409	2,177	2,228	2,033	1,979	1,913	1,941	1,884
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>2,422</b>	<b>2,185</b>	<b>2,232</b>	<b>2,037</b>	<b>1,983</b>	<b>1,915</b>	<b>1,945</b>	<b>1,887</b>
<b>Total Net Generation</b> .....	<b>46,554</b>	<b>50,401</b>	<b>51,928</b>	<b>47,795</b>	<b>52,169</b>	<b>54,596</b>	<b>55,051</b>	<b>57,458</b>
<b>Total Supply</b> .....	<b>46,554</b>	<b>50,401</b>	<b>51,928</b>	<b>47,795</b>	<b>52,169</b>	<b>54,596</b>	<b>55,051</b>	<b>57,458</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	39,789	42,841	43,417	46,055	46,636	47,055	46,115	43,156
Facility Direct Retail Sales <sup>1</sup> .....	-	267	256	110	-	-	19	17
<b>Total Electric Industry Retail Sales</b> .....	<b>39,789</b>	<b>43,108</b>	<b>43,672</b>	<b>46,165</b>	<b>46,636</b>	<b>47,055</b>	<b>46,135</b>	<b>43,173</b>
<b>Direct Use</b> .....	<b>2,384</b>	<b>2,393</b>	<b>2,396</b>	<b>2,083</b>	<b>2,054</b>	<b>1,995</b>	<b>1,987</b>	<b>1,916</b>
<b>Estimated Losses</b> .....	<b>2,884</b>	<b>3,190</b>	<b>3,692</b>	<b>4,081</b>	<b>3,449</b>	<b>4,713<sup>R</sup></b>	<b>4,113<sup>R</sup></b>	<b>4,068</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>1,497</b>	<b>1,709</b>	<b>2,168</b>	<b>-4,535<sup>R</sup></b>	<b>30</b>	<b>834<sup>R</sup></b>	<b>2,816<sup>R</sup></b>	<b>8,301</b>
<b>Total Disposition</b> .....	<b>46,554<sup>R</sup></b>	<b>50,401<sup>R</sup></b>	<b>51,928<sup>R</sup></b>	<b>47,795<sup>R</sup></b>	<b>52,169<sup>R</sup></b>	<b>54,596<sup>R</sup></b>	<b>55,051<sup>R</sup></b>	<b>57,458</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.03</b>	<b>1.04</b>	<b>1.04</b>	<b>0.91</b>	<b>1.00</b>	<b>1.02</b>	<b>1.05<sup>R</sup></b>	<b>1.17</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>California</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	65,948	2
Electric Utilities.....	28,021	2
Independent Power Producers & Combined Heat and Power.....	37,927	4
Net Generation (megawatthours).....	204,776,132	4
Electric Utilities.....	85,123,706	13
Independent Power Producers & Combined Heat and Power.....	119,652,427	4
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	3	47
Nitrogen Oxide .....	83	7
Carbon Dioxide.....	59,428	14
Sulfur Dioxide (lbs/MWh) .....	*	50
Nitrogen Oxide (lbs/MWh) .....	0.9	37
Carbon Dioxide (lbs/MWh).....	640	42
Total Retail Sales (megawatthours).....	259,583,623	2
Full Service Provider Sales (megawatthours) .....	242,547,580	2
Energy-Only Provider Sales (megawatthours).....	17,036,043	6
Direct Use (megawatthours) .....	10,035,114	3
Average Retail Price (cents/kWh).....	13.24	9

MWh = Megawatthours.

kWh = Kilowatthours.

\* = 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 \*).

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>California</b>			
1. Moss Landing Power Plant.....	Gas	Dynegy -Moss Landing LLC	2,529
2. Diablo Canyon.....	Nuclear	Pacific Gas & Electric Co	2,240
3. San Onofre.....	Nuclear	Southern California Edison Co	2,150
4. AES Alamos LLC .....	Gas	AES Alamos LLC	1,997
5. Castaic .....	Pumped Storage	Los Angeles City of	1,620
6. Haynes .....	Gas	Los Angeles City of	1,524
7. Ormond Beach.....	Gas	RRI Energy Ormond Beh LLC	1,516
8. Pittsburg Power.....	Gas	Mirant Delta LLC	1,311
9. AES Redondo Beach LLC.....	Gas	AES Redondo Beach LLC	1,310
10. Helms Pumped Storage .....	Pumped Storage	Pacific Gas & Electric Co	1,212

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>California</b>						
1. Pacific Gas & Electric Co.....	Investor-Owned	79,984,862	31,202,173	36,861,612	11,921,077	-
2. Southern California Edison Co.....	Investor-Owned	78,048,186	29,981,975	39,981,217	8,020,124	64,870
3. Los Angeles City of.....	Public	23,789,427	7,546,231	13,923,536	2,173,269	146,391
4. San Diego Gas & Electric Co.....	Investor-Owned	16,993,853	7,536,082	7,071,492	2,287,159	99,120
5. Sacramento Municipal Util Dist.....	Public	10,691,907	4,711,339	668,385	5,270,062	42,121
Total Sales, Top Five Providers .....		209,508,235	80,977,800	98,506,242	29,671,691	352,502
Percent of Total State Sales .....		81	90	81	62	42

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>California</b>										
<b>Electric Utilities.....</b>	<b>24,323</b>	<b>23,223</b>	<b>23,867</b>	<b>25,248</b>	<b>26,346</b>	<b>26,334</b>	<b>26,467</b>	<b>28,021</b>	<b>46.6</b>	<b>42.5</b>
Petroleum.....	526	297	297	297	245	226	222	204	1.0	0.3
Natural Gas.....	5,671	5,042	5,567	6,850	7,917	8,188	8,134	9,629	10.9	14.6
Nuclear.....	4,310	4,324	4,324	4,324	4,390	4,390	4,390	4,390	8.3	6.7
Hydroelectric.....	9,838	9,716	9,840	9,849	9,844	9,505	9,587	9,608	18.9	14.6
Other Renewables <sup>1</sup> .....	248	156	150	240	261	337	321	377	0.5	0.6
Pumped Storage.....	3,730	3,688	3,688	3,688	3,688	3,688	3,813	3,813	7.2	5.8
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>27,848</b>	<b>34,628</b>	<b>34,440</b>	<b>36,460</b>	<b>36,867</b>	<b>37,479</b>	<b>37,638</b>	<b>37,927</b>	<b>53.4</b>	<b>57.5</b>
Coal.....	385	358	389	389	389	389	367	367	0.7	0.6
Petroleum.....	514	527	541	543	544	528	530	530	1.0	0.8
Natural Gas.....	20,892	28,248	27,871	29,850	30,084	30,368	30,501	30,517	40.0	46.3
Other Gases <sup>2</sup> .....	335	225	235	191	171	262	197	197	0.6	0.3
Hydroelectric.....	476	232	238	239	239	536	535	535	0.9	0.8
Other Renewables <sup>1</sup> .....	5,237	5,022	5,158	5,240	5,431	5,397	5,501	5,775	10.0	8.8
Other <sup>3</sup> .....	9	17	8	8	8	-	7	7	*	*
<b>Total Electric Industry.....</b>	<b>52,171</b>	<b>57,850</b>	<b>58,306</b>	<b>61,707</b>	<b>63,213</b>	<b>63,813</b>	<b>64,105</b>	<b>65,948</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	385	358	389	389	389	389	367	367	0.7	0.6
Petroleum.....	1,040	824	838	840	789	754	752	734	2.0	1.1
Natural Gas.....	26,563	33,290	33,438	36,700	38,001	38,556	38,635	40,146	50.9	60.9
Other Gases <sup>2</sup> .....	335	225	235	191	171	262	197	197	0.6	0.3
Nuclear.....	4,310	4,324	4,324	4,324	4,390	4,390	4,390	4,390	8.3	6.7
Hydroelectric.....	10,314	9,947	10,078	10,088	10,083	10,041	10,122	10,144	19.8	15.4
Other Renewables <sup>1</sup> .....	5,485	5,177	5,308	5,479	5,693	5,734	5,822	6,152	10.5	9.3
Pumped Storage.....	3,730	3,688	3,688	3,688	3,688	3,688	3,813	3,813	7.2	5.8
Other <sup>3</sup> .....	9	17	8	8	8	-	7	7	*	*

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>California</b>										
<b>Electric Utilities.....</b>	<b>87,874,809</b>	<b>81,728,209</b>	<b>75,177,122</b>	<b>89,348,213</b>	<b>100,338,454</b>	<b>87,348,589</b>	<b>83,346,844</b>	<b>85,123,706</b>	<b>46.7</b>	<b>41.6</b>
Petroleum.....	51,769	50,996	51,482	57,974	58,991	65,296	58,187	50,625	*	*
Natural Gas.....	13,917,748	9,873,371	10,759,580	12,982,348	19,805,412	22,896,497	26,129,803	25,237,449	7.4	12.3
Other Gases <sup>1</sup> .....	-	-	-	-	-	-	12,899	60,250	-	*
Nuclear.....	33,371,857	35,593,789	30,267,887	36,154,898	31,958,621	35,792,490	32,482,351	31,763,804	17.7	15.5
Hydroelectric.....	39,228,603	35,782,738	33,608,686	38,826,653	47,127,134	26,926,661	22,871,073	26,407,034	20.8	12.9
Other Renewables <sup>2</sup> .....	1,691,046	1,339,627	1,306,318	1,206,547	1,292,159	1,357,866	1,471,268	1,451,695	0.9	0.7
Pumped Storage.....	-386,214	-912,313	-816,831	119,793	96,137	309,779	321,263	152,849	-0.2	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>100,444,414</b>	<b>111,060,333</b>	<b>119,603,233</b>	<b>110,944,605</b>	<b>116,460,234</b>	<b>123,498,992</b>	<b>124,637,419</b>	<b>119,652,427</b>	<b>53.3</b>	<b>58.4</b>
Coal.....	2,296,082	2,326,305	2,237,808	2,135,375	2,235,342	2,298,306	2,280,401	2,049,947	1.2	1.0
Petroleum.....	2,086,147	2,341,253	2,211,415	2,485,723	2,309,183	2,268,678	1,683,404	1,492,224	1.1	0.7
Natural Gas.....	71,181,114	81,558,809	89,462,653	80,371,501	85,885,704	92,803,974	93,861,934	88,226,006	37.8	43.1
Other Gases <sup>1</sup> .....	2,417,613	1,759,015	2,065,965	2,279,584	2,022,446	1,818,106	1,671,965	1,562,594	1.3	0.8
Hydroelectric.....	1,508,064	587,965	532,244	805,214	920,246	401,090	1,256,736	1,481,002	0.8	0.7
Other Renewables <sup>2</sup> .....	20,931,967	22,205,492	22,664,581	22,447,700	22,623,236	23,487,391	23,312,669	24,087,967	11.1	11.8
Other <sup>3</sup> .....	23,427	281,495	428,567	419,508	464,077	421,447	570,311	752,687	*	0.4
<b>Total Electric Industry.....</b>	<b>188,319,223</b>	<b>192,788,542</b>	<b>194,780,355</b>	<b>200,292,818</b>	<b>216,798,688</b>	<b>210,847,581</b>	<b>207,984,263</b>	<b>204,776,132</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,296,082	2,326,305	2,237,808	2,135,375	2,235,342	2,298,306	2,280,401	2,049,947	1.2	1.0
Petroleum.....	2,137,916	2,392,249	2,262,897	2,543,697	2,368,174	2,333,974	1,741,590	1,542,848	1.1	0.8
Natural Gas.....	85,098,862	91,432,180	100,222,233	93,353,849	105,691,116	115,700,470	119,991,737	113,463,455	45.2	55.4
Other Gases <sup>1</sup> .....	2,417,613	1,759,015	2,065,965	2,279,584	2,022,446	1,818,106	1,684,863	1,622,844	1.3	0.8
Nuclear.....	33,371,857	35,593,789	30,267,887	36,154,898	31,958,621	35,792,490	32,482,351	31,763,804	17.7	15.5
Hydroelectric.....	40,736,667	36,370,703	34,140,929	39,631,867	48,047,380	27,327,751	24,127,810	27,888,036	21.6	13.6
Other Renewables <sup>2</sup> .....	22,623,013	23,545,119	23,970,899	23,654,247	23,915,395	24,845,257	24,783,937	25,539,662	12.0	12.5
Pumped Storage.....	-386,214	-912,313	-816,831	119,793	96,137	309,779	321,263	152,849	-0.2	0.1
Other <sup>3</sup> .....	23,427	281,495	428,567	419,508	464,077	421,447	570,311	752,687	*	0.4

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>California</b>								
Coal (cents per million Btu) .....	-	173	188	W	W	W	W	W
Average heat value (Btu per pound).....	-	11,943	12,205	12,027	12,184	11,868	11,667	11,854
Average sulfur Content (percent).....	-	0.68	0.75	0.79	0.86	0.59	0.58	0.62
Petroleum (cents per million Btu) <sup>1</sup> .....	327	266	298	429	494	471	316	221
Average heat value (Btu per gallon).....	144,855	124,229	134,633	129,557	128,124	125,131	135,064	135,640
Average sulfur Content (percent).....	0.20	0.94	1.19	0.93	0.99	0.97	2.45	2.17
Natural Gas (cents per million Btu).....	273	537	589	786	659	659	808	431
Average heat value (Btu per cubic foot).....	1,012	1,026	1,027	1,025	1,026	1,025	1,026	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>California</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	24	3	2	3	3	3	1	2
Petroleum.....	111	13	18	21	21	18	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	2 <sup>R</sup>	2	2	1	2	2	1	*
Other <sup>2</sup> .....	2	*	*	*	*	*	*	*
Total.....	140	17	22	26	27	23	4	3
<b>Nitrogen Oxide .....</b>								
Coal.....	10	3	3	3	3	3	3	3
Petroleum.....	16	6	4	5	5	4	3	2
Natural Gas.....	87	77	70	57	58	58	50	55
Other Gases.....	5	2	3	3	3	3	2	2
Other Renewables <sup>1</sup> .....	17 <sup>R</sup>	17	16 <sup>R</sup>	17 <sup>R</sup>	20 <sup>R</sup>	19 <sup>R</sup>	24 <sup>R</sup>	21
Other <sup>2</sup> .....	2 <sup>R</sup>	2 <sup>R</sup>	1	1	1	1	1 <sup>R</sup>	1
Total.....	137	106	98	86	91	89	82	83
<b>Carbon Dioxide .....</b>								
Coal.....	3,883 <sup>R</sup>	3,891 <sup>R</sup>	3,950 <sup>R</sup>	3,741 <sup>R</sup>	3,897 <sup>R</sup>	3,928 <sup>R</sup>	3,767 <sup>R</sup>	3,365
Petroleum.....	3,102 <sup>R</sup>	3,106 <sup>R</sup>	2,992	3,325	3,270	3,143	2,175	1,828
Natural Gas.....	50,072	48,608	52,539	47,270	51,879	55,382	55,912	53,564
Other Gases.....	1 <sup>R</sup>	1 <sup>R</sup>	*	*	*	*	1 <sup>R</sup>	*
Geothermal.....	335 <sup>R</sup>	334	337	335	329	334	331	330
Other <sup>2</sup> .....	491 <sup>R</sup>	369	352	328	356	353	363	341
Total.....	57,885 <sup>R</sup>	56,308 <sup>R</sup>	60,170 <sup>R</sup>	54,999 <sup>R</sup>	59,732 <sup>R</sup>	63,140 <sup>R</sup>	62,549 <sup>R</sup>	59,428

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>California</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	75,303	82,926	83,361	85,610	89,836	89,158	91,231	89,799	32.1	34.6
Commercial .....	86,371	109,578	118,953	117,551	121,255	123,690	125,026	121,105	36.8	46.7
Industrial .....	63,217	49,909	48,812	50,242	50,991	50,538	51,031	47,835	26.9	18.4
Other .....	9,940	NA	NA	NA	NA	NA	NA	NA	4.2	--
Transportation.....	NA	809	900	846	877	848	867	844	--	0.3
All Sectors .....	234,831	243,221	252,026	254,250	262,959	264,235	268,155	259,584	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	8,012	10,142	10,168	10,708	12,876	12,860	12,595	13,238	39.0	38.5
Commercial .....	8,156	13,672	13,846	14,007	15,636	15,854	15,677	16,251	39.7	47.3
Industrial.....	3,961	4,787	4,526	4,797	5,145	5,046	5,125	4,816	19.3	14.0
Other.....	412	NA	NA	NA	NA	NA	NA	NA	2.0	--
Transportation.....	NA	47	58	55	55	71	71	71	--	0.2
All Sectors .....	20,540	28,648	28,598	29,567	33,712	33,831	33,468	34,377	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	10.64	12.23	12.20	12.51	14.33	14.42	13.81	14.74	--	--
Commercial .....	9.44	12.48	11.64	11.92	12.90	12.82	12.54	13.42	--	--
Industrial.....	6.27	9.59	9.27	9.55	10.09	9.98	10.04	10.07	--	--
Other.....	4.15	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	5.80	6.42	6.55	6.29	8.37	8.16	8.43	--	--
All Sectors .....	8.75	11.78	11.35	11.63	12.82	12.80	12.48	13.24	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>California</b>								
Number of Entities.....	6	36	1	4	29	10	3	89
Number of Retail Customers .....	11,567,016	3,183,999	70	16,395	29	22,000	NA	14,789,509
Retail Sales (thousand megawatthours).....	176,441	61,556	2,177	297	2,076	17,036	NA	259,584
Percentage of Retail Sales .....	67.97	23.71	0.84	0.11	0.80	6.56	--	100.00
Revenue from Retail Sales (million dollars) .....	24,947	7,194	70	38	125	1,307	695	34,377
Percentage of Revenue .....	72.57	20.93	0.20	0.11	0.36	3.80	2.02	100.00
Average Retail Price (cents/kWh).....	14.15	11.69	3.22	12.85	6.02	7.67	4.08	13.24

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>California</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	87,875	81,728	75,177	89,348	100,338	87,349	83,347	85,124
Independent Power Producers .....	57,912	65,429	75,928	68,721	76,509	82,491	85,067	80,767
Combined Heat and Power, Electric .....	22,964	25,458	24,567	23,459	21,399	22,342	21,535	21,009
<b>Electric Power Sector Generation Subtotal</b> .....	<b>168,751</b>	<b>172,616</b>	<b>175,672</b>	<b>181,527</b>	<b>198,247</b>	<b>192,181</b>	<b>189,949</b>	<b>186,900</b>
Combined Heat and Power, Commercial .....	2,024	2,071	1,918	2,151	2,118	2,131	2,100	2,244
Combined Heat and Power, Industrial.....	17,545	18,102	17,191	16,614	16,434	16,536	15,935	15,633
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>19,569</b>	<b>20,173</b>	<b>19,109</b>	<b>18,765</b>	<b>18,552</b>	<b>18,666</b>	<b>18,035</b>	<b>17,877</b>
<b>Total Net Generation</b> .....	<b>188,319</b>	<b>192,789</b>	<b>194,780</b>	<b>200,293</b>	<b>216,799</b>	<b>210,848</b>	<b>207,984</b>	<b>204,776</b>
<b>Total International Imports</b> <sup>1</sup> .....	<b>1,452</b>	<b>4,148</b>	<b>1,291</b>	<b>5,630</b>	<b>2,936</b>	<b>5,797</b>	<b>5,370<sup>R</sup></b>	<b>3,047</b>
<b>Total Supply</b> .....	<b>189,772</b>	<b>196,937</b>	<b>196,071</b>	<b>205,923</b>	<b>219,735</b>	<b>216,645</b>	<b>213,354<sup>R</sup></b>	<b>207,823</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	211,981	217,641	225,896	228,582	239,307	243,034	248,105	240,471
Energy-Only Providers.....	22,850	23,896	24,625	23,406	21,223	19,618	18,662	17,036
Facility Direct Retail Sales <sup>2</sup> .....	-	1,684	1,505	2,262	2,428	1,583	1,389	2,076
<b>Total Electric Industry Retail Sales</b> .....	<b>234,831</b>	<b>243,221</b>	<b>252,026</b>	<b>254,250</b>	<b>262,959</b>	<b>264,235</b>	<b>268,155</b>	<b>259,584</b>
<b>Direct Use</b> .....	<b>16,951</b>	<b>15,183</b>	<b>15,199</b>	<b>11,673</b>	<b>14,030</b>	<b>9,146<sup>R</sup></b>	<b>13,462<sup>R</sup></b>	<b>10,035</b>
<b>Total International Exports</b> <sup>1</sup> .....	<b>1,264</b>	<b>23</b>	<b>48</b>	<b>103</b>	<b>565</b>	<b>293</b>	<b>675<sup>R</sup></b>	<b>518</b>
<b>Estimated Losses</b> .....	<b>17,022</b>	<b>21,253</b>	<b>19,251</b>	<b>18,578<sup>R</sup></b>	<b>20,957</b>	<b>23,078<sup>R</sup></b>	<b>22,638<sup>R</sup></b>	<b>21,823</b>
<b>Net Interstate Trade</b> <sup>3</sup> .....	<b>-80,297</b>	<b>-82,743</b>	<b>-90,453</b>	<b>-78,680<sup>R</sup></b>	<b>-78,775</b>	<b>-80,107<sup>R</sup></b>	<b>-91,577<sup>R</sup></b>	<b>-84,137</b>
<b>Total Disposition</b> .....	<b>189,772<sup>R</sup></b>	<b>196,937<sup>R</sup></b>	<b>196,071<sup>R</sup></b>	<b>205,923<sup>R</sup></b>	<b>219,735<sup>R</sup></b>	<b>216,645<sup>R</sup></b>	<b>213,354<sup>R</sup></b>	<b>207,823</b>
<b>Net Trade Index (ratio)</b> <sup>4</sup> .....	<b>0.70</b>	<b>0.70</b>	<b>0.68</b>	<b>0.72</b>	<b>0.74</b>	<b>0.73<sup>R</sup></b>	<b>0.70<sup>R</sup></b>	<b>0.71</b>

<sup>1</sup> 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.

<sup>2</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>3</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>4</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Colorado</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	13,038	31
Electric Utilities.....	8,454	29
Independent Power Producers & Combined Heat and Power.....	4,584	22
Net Generation (megawatthours).....	50,565,952	29
Electric Utilities.....	37,467,527	28
Independent Power Producers & Combined Heat and Power.....	13,098,425	26
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	43	30
Nitrogen Oxide.....	54	18
Carbon Dioxide.....	38,989	22
Sulfur Dioxide (lbs/MWh) .....	1.9	36
Nitrogen Oxide (lbs/MWh) .....	2.4	11
Carbon Dioxide (lbs/MWh).....	1,700	15
Total Retail Sales (megawatthours).....	51,035,906	27
Full Service Provider Sales (megawatthours) .....	51,035,906	25
Direct Use (megawatthours) .....	43,472	46
Average Retail Price (cents/kWh).....	8.31	31

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Colorado</b>			
1. Craig .....	Coal	Tri-State G & T Assn, Inc	1,304
2. Fort St Vrain .....	Gas	Public Service Co of Colorado	969
3. Cherokee .....	Coal	Public Service Co of Colorado	717
4. Rawhide .....	Coal	Platte River Power Authority	666
5. Comanche .....	Coal	Public Service Co of Colorado	660
6. Rocky Mountain Energy Center.....	Gas	Rocky Mountain Energy Ctr LLC	608
7. Pawnee.....	Coal	Public Service Co of Colorado	505
8. Front Range Power Project.....	Gas	Colorado Springs City of	462
9. Hayden.....	Coal	Public Service Co of Colorado	446
10. Cabin Creek .....	Pumped Storage	Public Service Co of Colorado	324

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Colorado</b>						
1. Public Service Co of Colorado .....	Investor-Owned	27,359,238	8,704,558	12,648,380	5,962,635	43,665
2. Colorado Springs City of .....	Public	4,383,566	1,401,928	1,983,784	997,854	-
3. Intermountain Rural Elec Assn .....	Cooperative	2,063,926	1,347,857	541,310	174,759	-
4. Black Hills/Colorado Elec.Utility Co. LP .....	Investor-Owned	1,745,915	589,524	703,806	452,585	-
5. Fort Collins City of .....	Public	1,404,529	465,543	492,896	446,090	-
Total Sales, Top Five Providers .....		36,957,174	12,509,410	16,370,176	8,033,923	43,665
Percent of Total State Sales .....		72	72	82	59	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Colorado</b>										
<b>Electric Utilities.....</b>	<b>7,254</b>	<b>7,883</b>	<b>7,954</b>	<b>7,955</b>	<b>8,034</b>	<b>8,008</b>	<b>8,142</b>	<b>8,454</b>	<b>90.5</b>	<b>64.8</b>
Coal.....	4,981	4,891	4,891	4,888	4,899	4,921	4,925	4,970	62.1	38.1
Petroleum.....	180	193	207	181	179	179	181	176	2.2	1.3
Natural Gas .....	917	1,612	1,662	1,684	1,752	1,704	1,832	2,105	11.4	16.1
Hydroelectric .....	614	601	601	610	609	610	610	610	7.7	4.7
Other Renewables <sup>1</sup> .....	-	24	30	31	32	31	31	31	-	0.2
Pumped Storage.....	563	563	563	563	563	563	563	563	7.0	4.3
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>762</b>	<b>2,487</b>	<b>3,131</b>	<b>3,131</b>	<b>3,123</b>	<b>4,280</b>	<b>4,404</b>	<b>4,584</b>	<b>9.5</b>	<b>35.2</b>
Coal.....	33	40	40	40	40	40	40	40	0.4	0.3
Petroleum.....	3	2	2	2	2	2	2	2	*	*
Natural Gas .....	691	2,221	2,840	2,840	2,771	3,132	3,248	3,252	8.6	24.9
Hydroelectric .....	30	38	42	42	42	55	56	56	0.4	0.4
Other Renewables <sup>1</sup> .....	5	185	207	207	267	1,050	1,057	1,234	0.1	9.5
<b>Total Electric Industry.....</b>	<b>8,016</b>	<b>10,370</b>	<b>11,085</b>	<b>11,086</b>	<b>11,156</b>	<b>12,288</b>	<b>12,545</b>	<b>13,038</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,014	4,931	4,931	4,928	4,939	4,961	4,965	5,010	62.5	38.4
Petroleum.....	183	195	210	183	181	182	184	178	2.3	1.4
Natural Gas .....	1,608	3,833	4,502	4,523	4,523	4,836	5,080	5,357	20.1	41.1
Hydroelectric .....	644	639	643	652	652	665	666	666	8.0	5.1
Other Renewables <sup>1</sup> .....	5	209	237	238	299	1,081	1,087	1,265	0.1	9.7
Pumped Storage.....	563	563	563	563	563	563	563	563	7.0	4.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Colorado</b>										
<b>Electric Utilities.....</b>	<b>36,167,349</b>	<b>41,226,252</b>	<b>40,436,218</b>	<b>41,014,609</b>	<b>42,055,989</b>	<b>42,353,281</b>	<b>41,176,711</b>	<b>37,467,527</b>	<b>91.5</b>	<b>74.1</b>
Coal.....	32,605,202	35,807,527	35,570,358	35,285,966	36,003,331	35,722,617	34,639,561	31,454,143	82.5	62.2
Petroleum.....	32,430	33,927	11,797	15,464	17,646	14,748	18,092	12,583	0.1	*
Natural Gas.....	2,049,942	4,369,743	3,899,293	4,490,864	4,494,604	5,097,690	4,820,248	4,323,143	5.2	8.5
Other Gases <sup>1</sup> .....	-	4,001	1,753	2,430	2,519	1,911	-	-	-	-
Hydroelectric.....	1,443,426	1,156,217	1,076,897	1,283,074	1,676,432	1,625,544	1,877,868	1,726,853	3.7	3.4
Other Renewables <sup>2</sup> .....	-	58,477	67,921	58,874	61,959	58,831	70,050	59,463	-	0.1
Pumped Storage.....	36,349	-203,640	-191,801	-122,063	-200,502	-168,061	-249,108	-108,658	0.1	-0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,353,939</b>	<b>5,390,534</b>	<b>7,433,274</b>	<b>8,602,085</b>	<b>8,642,364</b>	<b>11,554,211</b>	<b>12,264,883</b>	<b>13,098,425</b>	<b>8.5</b>	<b>25.9</b>
Coal.....	271,862	308,096	278,032	284,169	266,094	213,122	187,984	181,880	0.7	0.4
Petroleum.....	13,805	67	2,071	1,582	3,191	13,702	1,021	870	*	*
Natural Gas.....	2,917,441	4,856,291	6,848,203	7,432,426	7,424,035	9,916,211	8,667,226	9,516,882	7.4	18.8
Hydroelectric.....	119,059	105,980	117,768	132,222	114,775	103,989	161,459	158,871	0.3	0.3
Other Renewables <sup>2</sup> .....	31,772	120,102	187,200	751,687	834,269	1,265,998	3,214,401	3,186,510	0.1	6.3
Other <sup>3</sup> .....	-	-	-	-	-	41,190	32,791	53,411	-	0.1
<b>Total Electric Industry.....</b>	<b>39,521,288</b>	<b>46,616,786</b>	<b>47,869,492</b>	<b>49,616,694</b>	<b>50,698,353</b>	<b>53,907,492</b>	<b>53,441,594</b>	<b>50,565,952</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	32,877,064	36,115,623	35,848,390	35,570,135	36,269,425	35,935,739	34,827,545	31,636,023	83.2	62.6
Petroleum.....	46,235	33,994	13,868	17,046	20,837	28,450	19,113	13,453	0.1	*
Natural Gas.....	4,967,383	9,226,034	10,747,496	11,923,290	11,918,639	15,013,901	13,487,475	13,840,025	12.6	27.4
Other Gases <sup>1</sup> .....	-	4,001	1,753	2,430	2,519	1,911	-	-	-	-
Hydroelectric.....	1,562,485	1,262,197	1,194,665	1,415,296	1,791,207	1,729,533	2,039,327	1,885,724	4.0	3.7
Other Renewables <sup>2</sup> .....	31,772	178,579	255,121	810,561	896,228	1,324,829	3,284,451	3,245,973	0.1	6.4
Pumped Storage.....	36,349	-203,640	-191,801	-122,063	-200,502	-168,061	-249,108	-108,658	0.1	-0.2
Other <sup>3</sup> .....	-	-	-	-	-	41,190	32,791	53,411	-	0.1

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Colorado</b>								
Coal (cents per million Btu) .....	98	97	97	106	128	126	W	W
Average heat value (Btu per pound).....	9,749	9,793	9,824	9,876	9,802	9,726	9,811	9,810
Average sulfur Content (percent).....	0.38	0.39	0.38	0.39	0.39	0.40	0.38	0.38
Petroleum (cents per million Btu) <sup>1</sup> .....	544	W	1,129	1,768	W	W	W	1,249
Average heat value (Btu per gallon).....	135,379	123,940	126,438	117,200	140,414	141,864	128,767	123,860
Average sulfur Content (percent).....	0.34	0.01	0.08	0.03	0.51	0.08	0.13	0.15
Natural Gas (cents per million Btu).....	257	430	554	724	607	424	678	413
Average heat value (Btu per cubic foot).....	1,032	1,027	1,021	1,024	1,025	1,026	1,036	1,036

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Colorado</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	84	70	59	58	59	59	55	43
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	-	-	-	-	-	-	-
Total.....	85	70	59	58	59	59	55	43
<b>Nitrogen Oxide .....</b>								
Coal.....	64	66	61	63	60	60	57	48
Petroleum.....	1	*	*	*	*	*	*	*
Natural Gas.....	5	6	4	4	5	7	5	6
Other Gases.....	-	-	-	*	*	*	-	-
Other Renewables <sup>1</sup> .....	2	*	1	*	*	*	*	*
Total.....	72	72	67	67	66	67	63	54
<b>Carbon Dioxide .....</b>								
Coal.....	33,560 <sup>R</sup>	36,550 <sup>R</sup>	36,234 <sup>R</sup>	36,001 <sup>R</sup>	36,975 <sup>R</sup>	36,647 <sup>R</sup>	35,716 <sup>R</sup>	32,622
Petroleum.....	73	30 <sup>R</sup>	15 <sup>R</sup>	20 <sup>R</sup>	34 <sup>R</sup>	29 <sup>R</sup>	22	14
Natural Gas.....	2,671	4,596	4,931	5,375	5,416	6,895	5,922	6,353
Other Gases.....	-	2 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	-	-
Total.....	36,305 <sup>R</sup>	41,178 <sup>R</sup>	41,180 <sup>R</sup>	41,397 <sup>R</sup>	42,426 <sup>R</sup>	43,571 <sup>R</sup>	41,659 <sup>R</sup>	38,989

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Colorado</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	13,131	15,725	15,532	16,436	16,952	17,634	17,720	17,413	32.4	34.1
Commercial .....	17,006	19,657	19,498	19,846	20,153	20,508	20,551	20,008	41.9	39.2
Industrial .....	9,521	11,076	11,675	12,052	12,605	13,113	13,822	13,571	23.5	26.6
Other .....	913	NA	NA	NA	NA	NA	NA	NA	2.3	--
Transportation.....	NA	37	19	19	25	44	49	44	--	0.1
All Sectors .....	40,571	46,495	46,724	48,353	49,734	51,299	52,142	51,036	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	969	1,280	1,307	1,490	1,529	1,632	1,794	1,740	40.1	41.0
Commercial .....	954	1,298	1,343	1,512	1,512	1,562	1,762	1,631	39.5	38.4
Industrial .....	417	565	596	691	741	783	919	867	17.3	20.4
Other .....	75	NA	NA	NA	NA	NA	NA	NA	3.1	--
Transportation.....	NA	3	1	1	2	3	4	4	--	0.1
All Sectors .....	2,415	3,146	3,247	3,694	3,785	3,980	4,480	4,242	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.38	8.14	8.42	9.06	9.02	9.25	10.13	10.00	--	--
Commercial .....	5.61	6.60	6.89	7.62	7.50	7.62	8.57	8.15	--	--
Industrial .....	4.38	5.10	5.11	5.74	5.88	5.97	6.65	6.39	--	--
Other .....	8.23	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.32	5.81	5.01	7.78	7.18	8.32	8.14	--	--
All Sectors .....	5.95	6.77	6.95	7.64	7.61	7.76	8.59	8.31	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	2	29	1	28	5	NA	NA	65
Number of Retail Customers .....	1,449,542	422,533	15	603,714	5	NA	NA	2,475,809
Retail Sales (thousand megawatthours).....	29,105	8,542	98	13,092	199	NA	NA	51,036
Percentage of Retail Sales .....	57.03	16.74	0.19	25.65	0.39	--	--	100.00
Revenue from Retail Sales (million dollars) .....	2,385	601	3	1,239	14	NA	NA	4,242
Percentage of Revenue .....	56.21	14.18	0.06	29.22	0.33	--	--	100.00
Average Retail Price (cents/kWh).....	8.19	7.04	2.61	9.47	7.08	NA	NA	8.31

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Colorado</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	36,167	41,226	40,436	41,015	42,056	42,353	41,177	37,468
Independent Power Producers .....	178	2,877	5,596	6,834	7,004	9,680	10,629	11,515
Combined Heat and Power, Electric .....	2,897	2,314	1,685	1,643	1,533	1,782	1,545	1,531
<b>Electric Power Sector Generation Subtotal</b> .....	<b>39,243</b>	<b>46,417</b>	<b>47,718</b>	<b>49,492</b>	<b>50,593</b>	<b>53,816</b>	<b>53,351</b>	<b>50,513</b>
Combined Heat and Power, Commercial .....	184	119	93	54	28	28	39	3
Combined Heat and Power, Industrial.....	94	81	59	70	78	64	52	50
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>278</b>	<b>200</b>	<b>152</b>	<b>125</b>	<b>106</b>	<b>92</b>	<b>91</b>	<b>53</b>
<b>Total Net Generation</b> .....	<b>39,521</b>	<b>46,617</b>	<b>47,869</b>	<b>49,617</b>	<b>50,698</b>	<b>53,907</b>	<b>53,442</b>	<b>50,566</b>
<b>Total International Imports</b> .....	<b>2</b>	<b>2</b>	<b>37</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>
<b>Total Supply</b> .....	<b>39,524</b>	<b>46,619</b>	<b>47,907</b>	<b>49,623</b>	<b>50,700</b>	<b>53,909</b>	<b>53,443</b>	<b>50,566</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	40,571	46,133	46,397	48,025	49,426	51,050	51,947	50,837
Facility Direct Retail Sales <sup>1</sup> .....	-	362	327	328	307	249	196	199
<b>Total Electric Industry Retail Sales</b> .....	<b>40,571</b>	<b>46,495</b>	<b>46,724</b>	<b>48,353</b>	<b>49,734</b>	<b>51,299</b>	<b>52,142</b>	<b>51,036</b>
<b>Direct Use</b> .....	<b>509</b>	<b>495</b>	<b>496</b>	<b>84</b>	<b>150</b>	<b>270<sup>R</sup></b>	<b>101<sup>R</sup></b>	<b>43</b>
<b>Total International Exports</b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>*</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>*</b>
<b>Estimated Losses</b> .....	<b>2,941</b>	<b>5,407</b>	<b>3,851</b>	<b>4,395<sup>R</sup></b>	<b>4,345</b>	<b>3,096<sup>R</sup></b>	<b>4,566<sup>R</sup></b>	<b>4,302</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-4,498</b>	<b>-5,778</b>	<b>-3,164</b>	<b>-3,209</b>	<b>-3,529</b>	<b>-759<sup>R</sup></b>	<b>-3,369<sup>R</sup></b>	<b>-4,815</b>
<b>Total Disposition</b> .....	<b>39,524<sup>R</sup></b>	<b>46,619<sup>R</sup></b>	<b>47,907<sup>R</sup></b>	<b>49,623<sup>R</sup></b>	<b>50,700<sup>R</sup></b>	<b>53,909<sup>R</sup></b>	<b>53,443<sup>R</sup></b>	<b>50,566</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.90</b>	<b>0.89</b>	<b>0.94</b>	<b>0.94</b>	<b>0.93</b>	<b>0.99</b>	<b>0.94</b>	<b>0.91</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Connecticut</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	8,028	35
Electric Utilities.....	111	46
Independent Power Producers & Combined Heat and Power.....	7,917	15
Net Generation (megawatthours).....	31,206,222	40
Electric Utilities.....	47,137	45
Independent Power Producers & Combined Heat and Power.....	31,159,085	11
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	2	48
Nitrogen Oxide.....	6	45
Carbon Dioxide.....	8,046	42
Sulfur Dioxide (lbs/MWh) .....	0.1	48
Nitrogen Oxide (lbs/MWh) .....	0.5	48
Carbon Dioxide (lbs/MWh).....	568	47
Total Retail Sales (megawatthours).....	29,715,764	35
Full Service Provider Sales (megawatthours) .....	16,699,306	39
Energy-Only Provider Sales (megawatthours).....	13,016,458	7
Direct Use (megawatthours) .....	554,157	32
Average Retail Price (cents/kWh).....	18.06	2

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Connecticut</b>			
1. Millstone.....	Nuclear	Dominion Nuclear Conn Inc	2,103
2. Middletown.....	Gas	Middletown Power LLC	770
3. Lake Road Generating Plant.....	Gas	Lake Road Generating Co LP	745
4. Bridgeport Harbor.....	Coal	PSEG Power Connecticut LLC	532
5. Milford Power Project .....	Gas	Milford Power Co LLC	511
6. Montville Station .....	Petroleum	NRG Montville Operations Inc	496
7. Bridgeport Energy Project.....	Gas	Bridgeport Energy LLC	454
8. New Haven Harbor .....	Petroleum	PSEG Power Connecticut LLC	448
9. NRG Norwalk Harbor .....	Petroleum	Norwalk Power LLC	342
10. PPL Wallingford Energy LLC.....	Gas	PPL Wallingford Energy LLC	190

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Connecticut</b>						
1. Connecticut Light & Power Co.....	Investor-Owned	12,090,185	8,734,311	2,987,444	368,430	-
2. Constellation NewEnergy, Inc.....	Other Provider	3,932,829	-	2,792,310	1,140,519	-
3. United Illuminating Co.....	Investor-Owned	2,651,826	1,855,652	735,540	60,634	-
4. TransCanada Power Mktg Ltd.....	Other Provider	1,407,413	-	-	1,407,413	-
5. Dominion Retail Inc.....	Other Provider	1,051,816	673,484	378,332	-	-
Total Sales, Top Five Providers.....		21,134,069	11,263,447	6,893,626	2,976,996	-
Percent of Total State Sales.....		71	90	52	81	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Connecticut</b>										
<b>Electric Utilities.....</b>	<b>2,919</b>	<b>210</b>	<b>174</b>	<b>25</b>	<b>37</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>41.7</b>	<b>1.4</b>
Petroleum.....	756	201	165	16	28	30	30	30	10.8	0.4
Natural Gas.....	-	-	-	-	-	71	71	71	-	0.9
Nuclear.....	2,028	-	-	-	-	-	-	-	29.0	-
Hydroelectric.....	129	9	9	9	9	9	9	9	1.8	0.1
Pumped Storage.....	6	-	-	-	-	-	-	-	0.1	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>4,078</b>	<b>7,363</b>	<b>7,755</b>	<b>7,937</b>	<b>7,845</b>	<b>7,614</b>	<b>7,713</b>	<b>7,917</b>	<b>58.3</b>	<b>98.6</b>
Coal.....	686	553	553	555	551	551	553	564	9.8	7.0
Petroleum.....	2,350	2,732	2,696	2,973	2,898	2,679	2,711	2,719	33.6	33.9
Natural Gas.....	776	1,685	2,134	2,037	2,020	2,029	2,100	2,197	11.1	27.4
Nuclear.....	-	1,997	2,037	2,037	2,037	2,022	2,015	2,103	-	26.2
Hydroelectric.....	19	137	137	137	138	113	113	113	0.3	1.4
Other Renewables <sup>1</sup> .....	244	228	166	166	170	163	166	166	3.5	2.1
Pumped Storage.....	-	4	4	4	4	29	29	29	-	0.4
Other <sup>2</sup> .....	3	27	27	27	27	27	27	27	*	0.3
<b>Total Electric Industry.....</b>	<b>6,997</b>	<b>7,573</b>	<b>7,929</b>	<b>7,962</b>	<b>7,882</b>	<b>7,725</b>	<b>7,824</b>	<b>8,028</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	686	553	553	555	551	551	553	564	9.8	7.0
Petroleum.....	3,106	2,933	2,862	2,989	2,926	2,709	2,741	2,749	44.4	34.2
Natural Gas.....	776	1,685	2,134	2,037	2,020	2,100	2,171	2,268	11.1	28.3
Nuclear.....	2,028	1,997	2,037	2,037	2,037	2,022	2,015	2,103	29.0	26.2
Hydroelectric.....	148	146	146	146	147	122	122	122	2.1	1.5
Other Renewables <sup>1</sup> .....	244	228	166	166	170	163	166	166	3.5	2.1
Pumped Storage.....	6	4	4	4	4	29	29	29	0.1	0.4
Other <sup>2</sup> .....	3	27	27	27	27	27	27	27	*	0.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Connecticut</b>										
<b>Electric Utilities.....</b>	<b>20,484,367</b>	<b>59,812</b>	<b>45,095</b>	<b>41,709</b>	<b>47,612</b>	<b>37,217</b>	<b>52,334</b>	<b>47,137</b>	<b>71.6</b>	<b>0.2</b>
Petroleum.....	5,793,975	13,955	9,253	695	1,282	3,325	2,597	2,465	20.3	*
Natural Gas.....	1,179,841	-	-	-	-	5,919	3,418	2,484	4.1	*
Nuclear.....	12,675,262	-	-	-	-	-	-	-	44.3	-
Hydroelectric.....	365,364	45,857	35,842	41,014	46,330	27,974	46,319	42,188	1.3	0.1
Other Renewables <sup>1</sup> .....	467,034	-	-	-	-	-	-	-	1.6	-
Pumped Storage.....	2,891	-	-	-	-	-	-	-	*	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>8,112,531</b>	<b>29,485,238</b>	<b>32,588,313</b>	<b>33,508,038</b>	<b>34,634,124</b>	<b>33,133,992</b>	<b>30,357,138</b>	<b>31,159,085</b>	<b>28.4</b>	<b>99.8</b>
Coal.....	1,486,067	4,200,297	4,255,072	3,996,492	4,281,516	3,738,723	4,386,608	2,453,497	5.2	7.9
Petroleum.....	2,474,340	2,048,713	1,730,859	3,155,147	1,277,552	1,307,934	511,253	296,412	8.7	0.9
Natural Gas.....	2,421,752	5,061,613	8,107,806	8,863,892	10,484,481	9,923,641	8,066,434	9,806,867	8.5	31.4
Other Gases <sup>2</sup> .....	34,831	-	-	1,566	1,647	2,196	-	-	0.1	-
Nuclear.....	-	16,078,095	16,539,097	15,562,122	16,589,446	16,386,142	15,432,946	16,657,382	-	53.4
Hydroelectric.....	56,598	518,559	426,770	437,185	497,562	335,287	509,858	467,358	0.2	1.5
Other Renewables <sup>1</sup> .....	1,638,943	785,861	757,819	753,335	763,320	729,839	733,514	758,730	5.7	2.4
Pumped Storage.....	-	-18	7,715	-1,653	-	-15,355	6,791	5,385	-	*
Other <sup>3</sup> .....	-	792,118	763,174	739,952	738,600	725,586	709,734	713,453	-	2.3
<b>Total Electric Industry.....</b>	<b>28,596,898</b>	<b>29,545,050</b>	<b>32,633,408</b>	<b>33,549,747</b>	<b>34,681,736</b>	<b>33,171,209</b>	<b>30,409,473</b>	<b>31,206,222</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,486,067	4,200,297	4,255,072	3,996,492	4,281,516	3,738,723	4,386,608	2,453,497	5.2	7.9
Petroleum.....	8,268,315	2,062,668	1,740,112	3,155,842	1,278,834	1,311,259	513,850	298,878	28.9	1.0
Natural Gas.....	3,601,593	5,061,613	8,107,806	8,863,892	10,484,481	9,929,559	8,069,852	9,809,351	12.6	31.4
Other Gases <sup>2</sup> .....	34,831	-	-	1,566	1,647	2,196	-	-	0.1	-
Nuclear.....	12,675,262	16,078,095	16,539,097	15,562,122	16,589,446	16,386,142	15,432,946	16,657,382	44.3	53.4
Hydroelectric.....	421,962	564,416	462,612	478,199	543,892	363,261	556,177	509,546	1.5	1.6
Other Renewables <sup>1</sup> .....	2,105,977	785,861	757,819	753,335	763,320	729,839	733,514	758,730	7.4	2.4
Pumped Storage.....	2,891	-18	7,715	-1,653	-	-15,355	6,791	5,385	*	*
Other <sup>3</sup> .....	-	792,118	763,174	739,952	738,600	725,586	709,734	713,453	-	2.3

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Connecticut</b>								
Coal (cents per million Btu) .....	169	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	13,541	10,565	10,423	10,139	10,056	10,286	10,215	11,038
Average sulfur Content (percent).....	0.61	0.55	0.54	0.44	0.51	0.42	0.39	0.67
Petroleum (cents per million Btu) <sup>1</sup> .....	224	542	568	836	850	971	1,744	860
Average heat value (Btu per gallon).....	152,336	146,743	147,602	148,190	148,805	147,962	148,602	146,500
Average sulfur Content (percent).....	0.79	0.40	0.34	0.28	0.25	0.27	0.30	0.49
Natural Gas (cents per million Btu).....	267	W	W	922	733	773	1,033	485
Average heat value (Btu per cubic foot).....	1,025	1,020	1,008	1,010	1,009	1,011	1,012	1,015

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Connecticut</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	1	3	3	3	3	2	3	1
Petroleum.....	39	5	4	5	3	3	1	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other <sup>1</sup> .....	5 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	44	8	7	8	5	5	4	2
<b>Nitrogen Oxide .....</b>								
Coal.....	*	2	2	2	2	2	2	1
Petroleum.....	10	2	2	3	2	2	1	*
Natural Gas.....	2	1	1	1	1	1	1	1
Other Gases.....	*	-	-	-	-	-	-	-
Other Renewables <sup>2</sup> .....	*	*	*	*	*	*	*	*
Other <sup>1</sup> .....	5 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	3 <sup>R</sup>	4
Total.....	18	10	9	11	9	8	7	6
<b>Carbon Dioxide .....</b>								
Coal.....	1,432 <sup>R</sup>	3,982 <sup>R</sup>	4,200 <sup>R</sup>	4,015 <sup>R</sup>	4,371 <sup>R</sup>	3,811 <sup>R</sup>	4,326 <sup>R</sup>	2,489
Petroleum.....	7,368 <sup>R</sup>	1,890	1,685	2,898 <sup>R</sup>	1,257 <sup>R</sup>	1,225 <sup>R</sup>	504	301
Natural Gas.....	2,099	2,524	3,321	3,553	4,363	4,265	3,485	4,120
Other Gases.....	43 <sup>R</sup>	-	-	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	-	-
Other <sup>1</sup> .....	1,199 <sup>R</sup>	1,242	1,200	1,194	1,176	1,160	1,136	1,135
Total.....	12,142 <sup>R</sup>	9,639 <sup>R</sup>	10,406 <sup>R</sup>	11,661 <sup>R</sup>	11,169 <sup>R</sup>	10,463 <sup>R</sup>	9,451 <sup>R</sup>	8,046

<sup>1</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Connecticut</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	11,619	13,178	13,211	13,803	12,963	13,372	12,730	12,578	39.0	42.3
Commercial .....	11,834	13,094	13,455	13,949	13,611	15,126	13,665	13,257	39.7	44.6
Industrial .....	5,836	5,366	5,358	5,153	4,926	5,433	4,371	3,692	19.6	12.4
Other .....	515	NA	NA	NA	NA	NA	NA	NA	1.7	--
Transportation.....	NA	192	190	190	177	198	190	188	--	0.6
All Sectors .....	29,803	31,830	32,215	33,095	31,677	34,129	30,957	29,716	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,332	1,491	1,537	1,883	2,185	2,556	2,488	2,557	44.9	47.7
Commercial .....	1,147	1,300	1,332	1,608	1,909	2,328	2,339	2,235	38.6	41.7
Industrial.....	433	429	423	484	577	702	653	551	14.6	10.3
Other.....	56	NA	NA	NA	NA	NA	NA	NA	1.9	--
Transportation.....	NA	15	14	17	26	28	28	23	--	0.4
All Sectors .....	2,968	3,235	3,305	3,992	4,697	5,613	5,508	5,366	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	11.46	11.31	11.63	13.64	16.86	19.11	19.55	20.33	--	--
Commercial .....	9.69	9.93	9.90	11.53	14.03	15.39	17.12	16.86	--	--
Industrial.....	7.42	7.99	7.89	9.40	11.71	12.92	14.93	14.92	--	--
Other.....	10.93	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.72	7.25	8.78	14.55	14.18	14.69	11.96	--	--
All Sectors .....	9.96	10.16	10.26	12.06	14.83	16.45	17.79	18.06	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	2	8	NA	NA	1	20	2	33
Number of Retail Customers .....	1,350,804	72,573	NA	NA	1	176,930	NA	1,600,308
Retail Sales (thousand megawatthours).....	14,742	1,919	NA	NA	39	13,016	NA	29,716
Percentage of Retail Sales .....	49.61	6.46	--	--	0.13	43.80	--	100.00
Revenue from Retail Sales (million dollars) .....	2,936	252	NA	NA	6	1,361	811	5,366
Percentage of Revenue .....	54.72	4.69	--	--	0.10	25.37	15.12	100.00
Average Retail Price (cents/kWh).....	19.92	13.12	NA	NA	14.39	10.46	6.23	18.06

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Connecticut</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	20,484	60	45	42	48	37	52	47
Independent Power Producers .....	4,993	27,167	30,345	31,564	32,431	31,087	28,138	28,959
Combined Heat and Power, Electric .....	2,243	1,986	1,966	1,697	1,874	1,831	1,956	1,874
<b>Electric Power Sector Generation Subtotal</b> .....	<b>27,720</b>	<b>29,212</b>	<b>32,356</b>	<b>33,303</b>	<b>34,352</b>	<b>32,956</b>	<b>30,147</b>	<b>30,880</b>
Combined Heat and Power, Commercial .....	547	45	43	40	38	44	44	47
330 Combined Heat and Power, Industrial.....	330	288	235	207	291	172	218	279
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>877</b>	<b>333</b>	<b>278</b>	<b>247</b>	<b>330</b>	<b>216</b>	<b>262</b>	<b>326</b>
<b>Total Net Generation</b> .....	<b>28,597</b>	<b>29,545</b>	<b>32,633</b>	<b>33,550</b>	<b>34,682</b>	<b>33,171</b>	<b>30,409</b>	<b>31,206</b>
<b>Total International Imports</b> .....	<b>1,934</b>	<b>472</b>	<b>1,061</b>	<b>1,338<sup>R</sup></b>	<b>1,346</b>	<b>1,832</b>	<b>2,161</b>	<b>2,567</b>
<b>Total Supply</b> .....	<b>30,531</b>	<b>30,017</b>	<b>33,695</b>	<b>34,888<sup>R</sup></b>	<b>36,028</b>	<b>35,003</b>	<b>32,571</b>	<b>33,773</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	29,803	31,230	31,470	32,355	30,114	24,075	19,192	16,661
Energy-Only Providers.....	-	600	744	740	1,529	10,015	11,724	13,016
Facility Direct Retail Sales <sup>1</sup> .....	-	-	-	-	34	40	40	39
<b>Total Electric Industry Retail Sales</b> .....	<b>29,803</b>	<b>31,830</b>	<b>32,215</b>	<b>33,095</b>	<b>31,677</b>	<b>34,129</b>	<b>30,957</b>	<b>29,716</b>
<b>Direct Use</b> .....	<b>725</b>	<b>1,539</b>	<b>1,541</b>	<b>225</b>	<b>302</b>	<b>506<sup>R</sup></b>	<b>493<sup>R</sup></b>	<b>554</b>
<b>Total International Exports</b> .....	<b>*</b>	<b>126</b>	<b>66</b>	<b>174<sup>R</sup></b>	<b>181</b>	<b>332</b>	<b>171<sup>R</sup></b>	<b>166</b>
<b>Estimated Losses</b> .....	<b>2,160</b>	<b>1,720<sup>R</sup></b>	<b>1,441</b>	<b>1,581<sup>R</sup></b>	<b>1,989</b>	<b>2,323<sup>R</sup></b>	<b>2,869<sup>R</sup></b>	<b>1,703</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-2,157</b>	<b>-5,198<sup>R</sup></b>	<b>-1,568</b>	<b>-188<sup>R</sup></b>	<b>1,879</b>	<b>-2,287<sup>R</sup></b>	<b>-1,919<sup>R</sup></b>	<b>1,635</b>
<b>Total Disposition</b> .....	<b>30,531<sup>R</sup></b>	<b>30,017<sup>R</sup></b>	<b>33,695<sup>R</sup></b>	<b>34,888<sup>R</sup></b>	<b>36,028<sup>R</sup></b>	<b>35,003<sup>R</sup></b>	<b>32,571<sup>R</sup></b>	<b>33,773</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.93</b>	<b>0.85</b>	<b>0.96</b>	<b>0.99</b>	<b>1.06</b>	<b>0.94</b>	<b>0.94</b>	<b>1.05</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Delaware</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>3,362</b>	<b>46</b>
Electric Utilities.....	55	48
Independent Power Producers & Combined Heat and Power.....	3,307	28
Net Generation (megawatthours).....	<b>4,841,563</b>	<b>50</b>
Electric Utilities.....	12,768	46
Independent Power Producers & Combined Heat and Power.....	4,828,795	37
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	16	39
Nitrogen Oxide.....	6	46
Carbon Dioxide.....	4,143	46
Sulfur Dioxide (lbs/MWh) .....	7.1	6
Nitrogen Oxide (lbs/MWh) .....	2.6	10
Carbon Dioxide (lbs/MWh).....	1,887	7
Total Retail Sales (megawatthours).....	<b>11,257,778</b>	<b>45</b>
Full Service Provider Sales (megawatthours) .....	7,212,679	46
Energy-Only Provider Sales (megawatthours).....	4,045,099	14
Direct Use (megawatthours) .....	<b>489,100</b>	<b>34</b>
Average Retail Price (cents/kWh).....	<b>12.14</b>	<b>14</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Delaware</b>			
1. Hay Road .....	Gas	Calpine Mid-Atlantic Generation LLC	1,110
2. Indian River Operations .....	Coal	Indian River Operations Inc	797
3. Edge Moor .....	Coal	Calpine Mid-Atlantic Generation LLC	718
4. Delaware City Plant.....	Other Gases	Delaware City Refining Company LLC	307
5. McKee Run.....	Gas	NAES Corporation	136
6. NRG Energy Center Dover .....	Coal	NRG Energy Center Dover LLC	100
7. Warren F Sam Beasley Generation Station.....	Gas	Delaware Municipal Electric Corp	48
8. Christiana.....	Petroleum	Calpine Mid-Atlantic Generation LLC	44
9. Van Sant Station .....	Gas	NAES Corporation	39
10. Seaford Delaware Plant .....	Coal	Invista	18

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Delaware</b>						
1. Delmarva Power .....	Investor-Owned	4,276,016	2,782,444	1,252,392	241,180	-
2. Delaware Electric Cooperative.....	Cooperative	1,151,036	936,977	214,059	-	-
3. Hess Retail Natural Gas and Elec. Acctg.....	Other Provider	780,995	-	185,028	595,967	-
4. Dover City of.....	Public	701,985	189,857	240,535	271,593	-
5. Constellation NewEnergy, Inc.....	Other Provider	594,547	-	465,352	129,195	-
Total Sales, Top Five Providers .....		7,504,579	3,909,278	2,357,366	1,237,935	-
Percent of Total State Sales .....		67	90	56	45	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Delaware</b>										
<b>Electric Utilities.....</b>	<b>2,285</b>	<b>58</b>	<b>58</b>	<b>194</b>	<b>58</b>	<b>56</b>	<b>55</b>	<b>55</b>	<b>93.4</b>	<b>1.6</b>
Coal.....	1,027	-	-	-	-	-	-	-	42.0	-
Petroleum.....	747	9	9	145	9	7	7	7	30.5	0.2
Natural Gas.....	511	49	49	49	49	49	48	48	20.9	1.4
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>162</b>	<b>3,335</b>	<b>3,371</b>	<b>3,171</b>	<b>3,316</b>	<b>3,301</b>	<b>3,296</b>	<b>3,307</b>	<b>6.6</b>	<b>98.4</b>
Coal.....	27	1,052	1,070	1,083	1,083	1,083	1,083	1,074	1.1	31.9
Petroleum.....	134	736	686	550	686	691	550	550	5.5	16.4
Natural Gas.....	-	1,244	1,308	1,231	1,233	1,213	1,349	1,369	-	40.7
Other Gases <sup>1</sup> .....	1	303	307	307	307	307	307	307	*	9.1
Other Renewables <sup>2</sup> .....	-	-	-	-	7	7	7	7	-	0.2
<b>Total Electric Industry.....</b>	<b>2,447</b>	<b>3,392</b>	<b>3,428</b>	<b>3,365</b>	<b>3,374</b>	<b>3,357</b>	<b>3,351</b>	<b>3,362</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,054	1,052	1,070	1,083	1,083	1,083	1,083	1,074	43.1	31.9
Petroleum.....	881	745	695	695	695	698	557	557	36.0	16.6
Natural Gas.....	511	1,293	1,357	1,280	1,282	1,262	1,397	1,417	20.9	42.2
Other Gases <sup>1</sup> .....	1	303	307	307	307	307	307	307	*	9.1
Other Renewables <sup>2</sup> .....	-	-	-	-	7	7	7	7	-	0.2

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Delaware</b>										
<b>Electric Utilities.....</b>	<b>6,239,372</b>	<b>31,107</b>	<b>23,751</b>	<b>25,989</b>	<b>16,558</b>	<b>47,830</b>	<b>19,068</b>	<b>12,768</b>	<b>91.1</b>	<b>0.3</b>
Coal.....	2,762,460	-	-	-	-	-	-	-	40.3	-
Petroleum.....	1,234,121	9,863	10,083	6,442	113	4,132	512	457	18.0	*
Natural Gas.....	2,242,791	21,244	13,668	19,547	16,445	43,698	18,556	12,311	32.7	0.3
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>612,366</b>	<b>7,361,180</b>	<b>7,831,802</b>	<b>8,110,579</b>	<b>7,165,621</b>	<b>8,486,333</b>	<b>7,504,771</b>	<b>4,828,795</b>	<b>8.9</b>	<b>99.7</b>
Coal.....	72,251	4,026,496	4,743,835	4,832,844	4,968,812	5,621,823	5,266,915	2,848,171	1.1	58.8
Petroleum.....	370,430	1,707,001	1,093,495	1,213,797	131,802	237,004	218,665	257,909	5.4	5.3
Natural Gas.....	-	1,442,536	1,704,751	1,571,270	1,154,323	1,858,286	1,368,453	1,364,090	-	28.2
Other Gases <sup>1</sup> .....	169,685	185,147	289,720	492,668	910,268	721,105	476,422	227,137	2.5	4.7
Other Renewables <sup>2</sup> .....	-	-	-	-	417	48,116	163,375	125,611	-	2.6
Other <sup>3</sup> .....	-	-	-	-	-	-	10,941	5,877	-	0.1
<b>Total Electric Industry.....</b>	<b>6,851,738</b>	<b>7,392,287</b>	<b>7,855,553</b>	<b>8,136,568</b>	<b>7,182,179</b>	<b>8,534,163</b>	<b>7,523,839</b>	<b>4,841,563</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,834,711	4,026,496	4,743,835	4,832,844	4,968,812	5,621,823	5,266,915	2,848,171	41.4	58.8
Petroleum.....	1,604,551	1,716,864	1,103,578	1,220,239	131,915	241,136	219,177	258,366	23.4	5.3
Natural Gas.....	2,242,791	1,463,780	1,718,419	1,590,817	1,170,768	1,901,984	1,387,009	1,376,401	32.7	28.4
Other Gases <sup>1</sup> .....	169,685	185,147	289,720	492,668	910,268	721,105	476,422	227,137	2.5	4.7
Other Renewables <sup>2</sup> .....	-	-	-	-	417	48,116	163,375	125,611	-	2.6
Other <sup>3</sup> .....	-	-	-	-	-	-	10,941	5,877	-	0.1

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Delaware</b>								
Coal (cents per million Btu) .....	159	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	12,935	12,803	12,530	12,222	12,401	12,524	12,452	12,567
Average sulfur Content (percent).....	0.97	0.90	0.83	0.67	0.74	0.73	0.74	0.80
Petroleum (cents per million Btu) <sup>1</sup> .....	244	576	611	863	1,351	1,304	1,811	1,120
Average heat value (Btu per gallon).....	150,998	147,895	146,312	147,248	139,117	144,114	143,781	137,938
Average sulfur Content (percent).....	0.63	0.52	0.39	0.46	0.06	0.30	0.33	0.04
Natural Gas (cents per million Btu).....	303	W	W	W	W	W	W	W
Average heat value (Btu per cubic foot).....	983	1,043	1,036	1,037	1,037	1,088	1,035	1,026

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Delaware</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	22	32	33	29	28	32	32	16
Petroleum.....	6	4	2	2	2	2	*	*
Natural Gas.....	-	-	-	*	*	*	*	*
Other Gases.....	-	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	-	-	*	*	*	*	*	-
Total.....	28	36	35	31	30	34	32	16
<b>Nitrogen Oxide .....</b>								
Coal.....	7	8	8	9	8	9	8	4
Petroleum.....	6	5	2	2	1	1	*	*
Natural Gas.....	*	*	1	1	*	1	*	*
Other Gases.....	*	*	2	2	2	2	2	1
Other Renewables <sup>1</sup> .....	-	*	*	*	*	1	1	1
Other <sup>2</sup> .....	-	-	-	*	*	*	*	*
Total.....	14	13	13	14	11	13	11	6
<b>Carbon Dioxide .....</b>								
Coal.....	3,139 <sup>R</sup>	4,196 <sup>R</sup>	4,991 <sup>R</sup>	5,294 <sup>R</sup>	5,282 <sup>R</sup>	5,950 <sup>R</sup>	5,674 <sup>R</sup>	3,163
Petroleum.....	2,061	2,220	789	865	138	245	209	304
Natural Gas.....	1,036	650	814	719	529	1,103	714	676
Total.....	6,236 <sup>R</sup>	7,066 <sup>R</sup>	6,594 <sup>R</sup>	6,878 <sup>R</sup>	5,949 <sup>R</sup>	7,299 <sup>R</sup>	6,597 <sup>R</sup>	4,143

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Delaware</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	3,532	4,190	4,305	4,594	4,259	4,470	4,428	4,335	33.5	38.5
Commercial .....	3,353	3,886	4,033	4,238	4,196	4,321	4,339	4,185	31.8	37.2
Industrial .....	3,613	4,523	3,423	3,305	3,100	3,078	2,982	2,738	34.2	24.3
Other .....	54	NA	NA	NA	NA	NA	NA	NA	0.5	--
All Sectors .....	10,552	12,600	11,761	12,137	11,555	11,869	11,749	11,258	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	324	360	378	414	505	588	617	610	43.2	44.6
Commercial .....	248	284	300	322	429	484	523	501	33.1	36.7
Industrial.....	170	233	207	205	238	275	312	256	22.7	18.7
Other.....	7	NA	NA	NA	NA	NA	NA	NA	1.0	--
All Sectors .....	749	877	885	941	1,171	1,347	1,452	1,367	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	9.17	8.59	8.78	9.01	11.85	13.16	13.93	14.07	--	--
Commercial .....	7.39	7.31	7.44	7.60	10.21	11.21	12.07	11.98	--	--
Industrial.....	4.71	5.15	6.06	6.21	7.67	8.93	10.45	9.34	--	--
Other.....	13.24	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	7.10	6.96	7.53	7.76	10.13	11.35	12.36	12.14	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Delaware</b>								
Number of Entities.....	1	9	NA	1	NA	15	1	27
Number of Retail Customers .....	287,140	64,369	NA	80,812	NA	11,814	NA	444,135
Retail Sales (thousand megawatthours).....	4,276	1,786	NA	1,151	NA	4,045	NA	11,258
Percentage of Retail Sales .....	37.98	15.86	--	10.22	--	35.93	--	100.00
Revenue from Retail Sales (million dollars).....	591	248	NA	139	NA	356	33	1,367
Percentage of Revenue .....	43.20	18.16	--	10.17	--	26.05	2.42	100.00
Average Retail Price (cents/kWh).....	13.81	13.90	NA	12.08	NA	8.81	0.82	12.14

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Delaware</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	6,239	31	24	26	17	48	19	13
Independent Power Producers .....	-	6,653	6,866	7,078	6,025	7,283	5,227	3,695
Combined Heat and Power, Electric .....	-	109	128	129	102	132	1,579	675
<b>Electric Power Sector Generation Subtotal</b> .....	<b>6,239</b>	<b>6,793</b>	<b>7,018</b>	<b>7,233</b>	<b>6,143</b>	<b>7,463</b>	<b>6,824</b>	<b>4,383</b>
Combined Heat and Power, Industrial.....	612	599	838	903	1,039	1,071	699	459
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>612</b>	<b>599</b>	<b>838</b>	<b>903</b>	<b>1,039</b>	<b>1,071</b>	<b>699</b>	<b>459</b>
<b>Total Net Generation</b> .....	<b>6,852</b>	<b>7,392</b>	<b>7,856</b>	<b>8,137</b>	<b>7,182</b>	<b>8,534</b>	<b>7,524</b>	<b>4,842</b>
<b>Total Supply</b> .....	<b>6,852</b>	<b>7,392</b>	<b>7,856</b>	<b>8,137</b>	<b>7,182</b>	<b>8,534</b>	<b>7,524</b>	<b>4,842</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	10,494	10,488	10,751	11,187	9,044	7,828	7,789	7,213
Energy-Only Providers.....	59	2,111	1,010	950	2,511	4,041	3,960	4,045
<b>Total Electric Industry Retail Sales</b> .....	<b>10,552</b>	<b>12,600</b>	<b>11,761</b>	<b>12,137</b>	<b>11,555</b>	<b>11,869</b>	<b>11,749</b>	<b>11,258</b>
Direct Use .....	612	563	564	736	494	909 <sup>R</sup>	750 <sup>R</sup>	489
Estimated Losses.....	765	1,841	1,067	1,223 <sup>R</sup>	986	1,304 <sup>R</sup>	880 <sup>R</sup>	809
Net Interstate Trade <sup>1</sup> .....	-5,078	-7,612	-5,537	-5,959	-5,852	-5,548 <sup>R</sup>	-5,856 <sup>R</sup>	-7,714
<b>Total Disposition</b> .....	<b>6,852<sup>R</sup></b>	<b>7,392<sup>R</sup></b>	<b>7,856<sup>R</sup></b>	<b>8,137<sup>R</sup></b>	<b>7,182<sup>R</sup></b>	<b>8,534<sup>R</sup></b>	<b>7,524<sup>R</sup></b>	<b>4,842</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>0.57</b>	<b>0.49</b>	<b>0.59</b>	<b>0.58</b>	<b>0.55</b>	<b>0.61</b>	<b>0.56<sup>R</sup></b>	<b>0.39</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>District of Columbia</b>		
NERC Region(s).....		RFC
Primary Energy Source.....		Petroleum
Net Summer Capacity (megawatts) .....	790	51
Independent Power Producers & Combined Heat and Power.....	790	45
Net Generation (megawatthours).....	35,499	51
Independent Power Producers & Combined Heat and Power.....	35,499	51
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	*	49
Nitrogen Oxide .....	*	51
Carbon Dioxide.....	36	50
Sulfur Dioxide (lbs/MWh) .....	17.6	1
Nitrogen Oxide (lbs/MWh) .....	8.1	1
Carbon Dioxide (lbs/MWh).....	2,220	1
Total Retail Sales (megawatthours).....	12,198,825	43
Full Service Provider Sales (megawatthours) .....	3,567,109	50
Energy-Only Provider Sales (megawatthours).....	8,631,716	11
Direct Use (megawatthours) .....	-	50
Average Retail Price (cents/kWh).....	12.97	12

MWh = Megawatthours.

kWh = Kilowatthours.

\* = 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 \*).

- (dash) = Data not available.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>District of Columbia</b>			
1. Benning.....	Petroleum	Potomac Power Resources	550
2. Buzzard Point .....	Petroleum	Potomac Power Resources	240

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>District of Columbia</b>						
1. PEPCO Energy Services.....	Other Provider	4,256,701	4,922	4,231,709	-	20,070
2. Potomac Electric Power Co.....	Investor-Owned	3,567,109	1,842,125	1,724,984	-	-
3. Hess Retail Natural Gas and Elec. Acctg.....	Other Provider	2,220,577	-	1,959,069	261,508	-
4. Washington Gas Energy Services .....	Other Provider	1,102,332	11,801	1,090,531	-	-
5. Constellation NewEnergy, Inc.....	Other Provider	527,891	-	226,836	-	301,055
Total Sales, Top Five Providers .....		11,674,610	1,858,848	9,233,129	261,508	321,125
Percent of Total State Sales .....		96	100	95	86	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>District of Columbia</b>										
Electric Utilities.....	806	-	-	-	-	-	-	-	100.0	-
Petroleum.....	806	-	-	-	-	-	-	-	100.0	-
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>-</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>790</b>	<b>790</b>	<b>-</b>	<b>100.0</b>
Petroleum.....	-	806	806	806	806	806	790	790	-	100.0
<b>Total Electric Industry.....</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>806</b>	<b>790</b>	<b>790</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	806	806	806	806	806	806	790	790	100.0	100.0

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>District of Columbia</b>										
Electric Utilities.....	230,003	-	-	-	-	-	-	-	100.0	-
Petroleum.....	230,003	-	-	-	-	-	-	-	100.0	-
Independent Power Producers and Combined Heat and Power.....	-	74,144	36,487	226,042	81,467	75,251	72,316	35,499	-	100.0
Petroleum.....	-	74,144	36,487	226,042	81,467	75,251	72,316	35,499	-	100.0
<b>Total Electric Industry.....</b>	<b>230,003</b>	<b>74,144</b>	<b>36,487</b>	<b>226,042</b>	<b>81,467</b>	<b>75,251</b>	<b>72,316</b>	<b>35,499</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	230,003	74,144	36,487	226,042	81,467	75,251	72,316	35,499	100.0	100.0

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>District of Columbia</b>								
Petroleum (cents per million Btu) <sup>1</sup> .....	340	W	W	W	W	W	W	W
Average heat value (Btu per gallon).....	143,279	142,324	141,352	142,143	140,714	139,371	138,700	137,057
Average sulfur Content (percent).....	0.97	0.58	0.43	0.54	0.48	0.34	0.47	0.27

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>District of Columbia</b>								
<b>Sulfur Dioxide</b> .....								
Petroleum.....	1	*	*	1	*	*	*	*
Total.....	1	*	*	1	*	*	*	*
<b>Nitrogen Oxide</b> .....								
Petroleum.....	1	*	*	1	*	*	*	*
Total.....	1	*	*	1	*	*	*	*
<b>Carbon Dioxide</b> .....								
Petroleum.....	255	83	56	236	100	86	70	36
Total.....	255	83	56	236	100	86	70	36

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>District of Columbia</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	1,643	1,754	1,834	1,938	1,822	1,970	1,897	1,859	15.8	15.2
Commercial .....	8,146	8,639	8,994	9,296	9,030	9,519	9,290	9,714	78.2	79.6
Industrial .....	249	267	282	256	240	297	305	305	2.4	2.5
Other .....	380	NA	NA	NA	NA	NA	NA	NA	3.6	--
Transportation.....	NA	285	304	326	305	325	359	321	--	2.6
All Sectors .....	10,418	10,946	11,415	11,816	11,396	12,110	11,851	12,199	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	131	138	147	176	180	220	242	256	16.9	16.2
Commercial .....	609	635	670	848	1,008	1,143	1,229	1,259	78.4	79.6
Industrial.....	11	15	13	36	42	28	32	26	1.5	1.6
Other .....	25	NA	NA	NA	NA	NA	NA	NA	3.2	--
Transportation.....	NA	22	22	24	33	37	49	41	--	2.6
All Sectors .....	777	810	852	1,085	1,263	1,428	1,553	1,582	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.00	7.84	8.00	9.10	9.88	11.18	12.79	13.76	--	--
Commercial .....	7.47	7.35	7.45	9.13	11.17	12.01	13.23	12.96	--	--
Industrial.....	4.59	5.57	4.74	14.13	17.43	9.32	10.49	8.41	--	--
Other .....	6.55	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.64	7.37	7.37	10.68	11.32	13.77	12.77	--	--
All Sectors .....	7.45	7.40	7.47	9.18	11.08	11.79	13.10	12.97	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>District of Columbia</b>								
Number of Entities.....	1	NA	NA	NA	NA	13	1	15
Number of Retail Customers .....	236,014	NA	NA	NA	NA	12,259	NA	248,273
Retail Sales (thousand megawatthours).....	3,567	NA	NA	NA	NA	8,632	NA	12,199
Percentage of Retail Sales .....	29.24	--	--	--	--	70.76	--	100.00
Revenue from Retail Sales (million dollars) .....	513	NA	NA	NA	NA	803	266	1,582
Percentage of Revenue .....	32.42	--	--	--	--	50.75	16.84	100.00
Average Retail Price (cents/kWh).....	14.38	NA	NA	NA	NA	9.30	3.09	12.97

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>District of Columbia</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	230	-	-	-	-	-	-	-
Independent Power Producers .....	-	74	36	226	81	75	72	35
<b>Electric Power Sector Generation Subtotal</b> .....	<b>230</b>	<b>74</b>	<b>36</b>	<b>226</b>	<b>81</b>	<b>75</b>	<b>72</b>	<b>35</b>
<b>Total Net Generation</b> .....	<b>230</b>	<b>74</b>	<b>36</b>	<b>226</b>	<b>81</b>	<b>75</b>	<b>72</b>	<b>35</b>
<b>Total Supply</b> .....	<b>230</b>	<b>74</b>	<b>36</b>	<b>226</b>	<b>81</b>	<b>75</b>	<b>72</b>	<b>35</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	10,418	5,725	7,761	4,803	5,965	4,181	3,849	3,567
Energy-Only Providers .....	-	5,221	3,654	7,013	5,431	7,929	8,002	8,632
<b>Total Electric Industry Retail Sales</b> .....	<b>10,418</b>	<b>10,946</b>	<b>11,415</b>	<b>11,816</b>	<b>11,396</b>	<b>12,110</b>	<b>11,851</b>	<b>12,199</b>
<b>Direct Use</b> .....	-	*	*	-	-	-	-	-
<b>Estimated Losses</b> .....	<b>755</b>	<b>660</b>	<b>774</b>	<b>1,003</b>	<b>942</b>	<b>1,045<sup>R</sup></b>	<b>941<sup>R</sup></b>	<b>785</b>
<b>Net Interstate Trade<sup>1</sup></b> .....	<b>-10,943</b>	<b>-11,533</b>	<b>-12,153</b>	<b>-12,593</b>	<b>-12,257</b>	<b>-13,079<sup>R</sup></b>	<b>-12,719<sup>R</sup></b>	<b>-12,948</b>
<b>Total Disposition</b> .....	<b>230<sup>R</sup></b>	<b>74<sup>R</sup></b>	<b>36<sup>R</sup></b>	<b>226<sup>R</sup></b>	<b>81<sup>R</sup></b>	<b>75<sup>R</sup></b>	<b>72<sup>R</sup></b>	<b>35</b>
<b>Net Trade Index (ratio)<sup>2</sup></b> .....	<b>0.02</b>	<b>0.01</b>	<b>*</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>*</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Florida</b>		
NERC Region(s).....		FRCC/SERC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	59,073	3
Electric Utilities.....	50,781	1
Independent Power Producers & Combined Heat and Power.....	8,292	13
Net Generation (megawatthours).....	217,952,308	3
Electric Utilities.....	195,063,261	1
Independent Power Producers & Combined Heat and Power.....	22,889,048	13
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	219	11
Nitrogen Oxide .....	116	3
Carbon Dioxide.....	114,854	4
Sulfur Dioxide (lbs/MWh) .....	2.2	32
Nitrogen Oxide (lbs/MWh) .....	1.2	32
Carbon Dioxide (lbs/MWh).....	1,162	31
Total Retail Sales (megawatthours).....	224,750,322	3
Full Service Provider Sales (megawatthours) .....	224,750,322	3
Direct Use (megawatthours) .....	4,986,384	5
Average Retail Price (cents/kWh).....	11.49	15

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Florida</b>			
1. Martin .....	Gas	Florida Power & Light Co	3,814
2. Turkey Point .....	Nuclear	Florida Power & Light Co	3,330
3. Crystal River.....	Coal	Progress Energy Florida Inc	3,150
4. Manatee .....	Gas	Florida Power & Light Co	2,742
5. West County Energy Center (WCEC).....	Gas	Florida Power & Light Co	2,462
6. Fort Myers .....	Gas	Florida Power & Light Co	2,412
7. Sanford.....	Gas	Florida Power & Light Co	2,054
8. Hines Energy Complex.....	Gas	Progress Energy Florida Inc	1,912
9. H. L. Culbreath Bayside .....	Gas	Tampa Electric Co	1,854
10. Lauderdale .....	Gas	Florida Power & Light Co	1,712

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Florida Power & Light Co.....	Investor-Owned	102,762,272	53,953,573	45,483,666	3,245,099	79,934
2. Progress Energy Florida Inc.....	Investor-Owned	37,824,252	19,399,196	15,139,667	3,285,389	-
3. Tampa Electric Co.....	Investor-Owned	18,774,789	8,666,471	8,112,976	1,994,753	589
4. JEA.....	Public	12,299,072	5,318,602	4,144,291	2,832,487	3,692
5. Gulf Power Co.....	Investor-Owned	10,902,824	5,254,491	3,921,227	1,727,106	-
Total Sales, Top Five Providers.....		182,563,209	92,592,333	76,801,827	13,084,834	84,215
Percent of Total State Sales.....		81	80	83	77	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Florida</b>										
<b>Electric Utilities.....</b>	<b>36,536</b>	<b>41,996</b>	<b>42,619</b>	<b>45,196</b>	<b>45,184</b>	<b>47,224</b>	<b>47,222</b>	<b>50,781</b>	<b>89.4</b>	<b>86.0</b>
Coal.....	10,770	10,223	9,653	9,634	9,564	9,528	9,499	9,495	26.4	16.1
Petroleum.....	12,153	10,063	10,715	10,611	10,593	10,586	12,043	11,549	29.7	19.5
Natural Gas.....	9,665	17,751	18,290	20,990	21,065	23,148	21,698	25,731	23.7	43.6
Nuclear.....	3,898	3,902	3,902	3,902	3,902	3,902	3,924	3,924	9.5	6.6
Hydroelectric.....	47	50	55	55	55	55	55	55	0.1	0.1
Other Renewables <sup>1</sup> .....	3	8	5	5	5	5	3	28	*	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>4,319</b>	<b>7,423</b>	<b>8,034</b>	<b>8,024</b>	<b>8,022</b>	<b>8,227</b>	<b>8,238</b>	<b>8,292</b>	<b>10.6</b>	<b>14.0</b>
Coal.....	812	799	769	769	769	769	766	766	2.0	1.3
Petroleum.....	22	18	1,073	1,091	1,084	1,085	1,085	1,053	0.1	1.8
Natural Gas.....	2,035	5,300	4,945	4,950	4,970	5,163	5,075	5,139	5.0	8.7
Other Renewables <sup>1</sup> .....	1,064	895	932	925	949	988	989	1,010	2.6	1.7
Other <sup>2</sup> .....	386	410	315	289	251	222	324	324	0.9	0.5
<b>Total Electric Industry.....</b>	<b>40,855</b>	<b>49,419</b>	<b>50,654</b>	<b>53,220</b>	<b>53,206</b>	<b>55,451</b>	<b>55,460</b>	<b>59,073</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	11,582	11,022	10,422	10,403	10,333	10,297	10,265	10,261	28.3	17.4
Petroleum.....	12,174	10,080	11,787	11,701	11,677	11,671	13,128	12,602	29.8	21.3
Natural Gas.....	11,700	23,051	23,236	25,941	26,035	28,312	26,773	30,870	28.6	52.3
Nuclear.....	3,898	3,902	3,902	3,902	3,902	3,902	3,924	3,924	9.5	6.6
Hydroelectric.....	47	50	55	55	55	55	55	55	0.1	0.1
Other Renewables <sup>1</sup> .....	1,067	903	937	930	954	993	992	1,038	2.6	1.8
Other <sup>2</sup> .....	386	410	315	289	251	222	324	324	0.9	0.5

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Florida</b>										
<b>Electric Utilities.....</b>	<b>166,914,264</b>	<b>188,034,719</b>	<b>193,383,664</b>	<b>196,096,285</b>	<b>200,015,227</b>	<b>200,533,885</b>	<b>196,524,348</b>	<b>195,063,261</b>	<b>89.1</b>	<b>89.5</b>
Coal.....	62,680,522	62,094,661	60,013,823	57,559,411	60,413,597	62,633,944	59,731,231	49,942,611	33.5	22.9
Petroleum.....	36,697,343	35,545,897	35,824,155	36,122,039	22,508,349	19,841,026	11,830,552	9,028,865	19.6	4.1
Natural Gas.....	35,853,511	59,013,591	65,940,807	73,282,347	85,384,147	88,542,291	92,538,775	106,669,479	19.1	48.9
Nuclear.....	31,526,285	30,979,481	31,215,576	28,758,826	31,426,349	29,289,289	32,133,276	29,117,877	16.8	13.4
Hydroelectric.....	140,175	262,667	265,258	266,159	203,422	154,446	206,158	208,202	0.1	0.1
Other Renewables <sup>1</sup> .....	16,428	130,639	124,045	107,503	79,363	72,890	84,356	96,226	*	*
Other <sup>2</sup> .....	-	7,782	-	-	-	-	-	-	-	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>20,349,162</b>	<b>24,575,293</b>	<b>24,734,264</b>	<b>24,160,127</b>	<b>23,736,394</b>	<b>24,882,175</b>	<b>23,112,470</b>	<b>22,889,048</b>	<b>10.9</b>	<b>10.5</b>
Coal.....	4,949,405	5,579,919	4,847,951	4,955,890	5,009,739	5,274,171	5,092,180	4,060,460	2.6	1.9
Petroleum.....	433,287	1,658,672	1,431,297	1,078,995	395,741	361,841	140,190	192,151	0.2	0.1
Natural Gas.....	7,313,445	9,279,829	10,636,163	10,312,848	10,801,993	11,764,893	10,824,348	11,652,829	3.9	5.3
Other Gases <sup>3</sup> .....	26,619	10,505	14,732	13,240	16,924	15,162	9,977	6,800	*	*
Other Renewables <sup>1</sup> .....	5,588,330	4,343,450	4,377,526	4,219,693	4,251,327	4,229,928	4,218,512	4,244,106	3.0	1.9
Other <sup>2</sup> .....	2,038,076	3,702,918	3,426,594	3,579,461	3,260,671	3,236,180	2,827,263	2,732,701	1.1	1.3
<b>Total Electric Industry.....</b>	<b>187,263,426</b>	<b>212,610,012</b>	<b>218,117,928</b>	<b>220,256,412</b>	<b>223,751,621</b>	<b>225,416,060</b>	<b>219,636,818</b>	<b>217,952,308</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	67,629,927	67,674,580	64,861,774	62,515,301	65,423,336	67,908,115	64,823,411	54,003,072	36.1	24.8
Petroleum.....	37,130,630	37,204,569	37,255,452	37,201,034	22,904,090	20,202,867	11,970,743	9,221,017	19.8	4.2
Natural Gas.....	43,166,956	68,293,420	76,576,970	83,595,195	96,186,140	100,307,183	103,363,123	118,322,308	23.1	54.3
Other Gases <sup>3</sup> .....	26,619	10,505	14,732	13,240	16,924	15,162	9,977	6,800	*	*
Nuclear.....	31,526,285	30,979,481	31,215,576	28,758,826	31,426,349	29,289,289	32,133,276	29,117,877	16.8	13.4
Hydroelectric.....	140,175	262,667	265,258	266,159	203,422	154,446	206,158	208,202	0.1	0.1
Other Renewables <sup>1</sup> .....	5,604,758	4,474,089	4,501,571	4,327,196	4,330,690	4,302,818	4,302,868	4,340,332	3.0	2.0
Other <sup>2</sup> .....	2,038,076	3,710,700	3,426,594	3,579,461	3,260,671	3,236,180	2,827,263	2,732,701	1.1	1.3

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

<sup>3</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Florida</b>								
Coal (cents per million Btu) .....	159	176	192	231	256	256	297	339
Average heat value (Btu per pound).....	12,299	12,281	12,249	12,227	12,142	12,116	11,929	11,957
Average sulfur Content (percent).....	1.53	1.44	1.44	1.38	1.37	1.35	1.38	1.45
Petroleum (cents per million Btu) <sup>1</sup> .....	236	389	392	581	568	712	1,003	727
Average heat value (Btu per gallon).....	147,529	148,431	148,183	147,510	146,124	147,276	146,433	144,745
Average sulfur Content (percent).....	1.63	1.99	1.96	1.99	2.47	2.06	2.40	2.27
Natural Gas (cents per million Btu).....	297	573	629	844	835	907	1,010	764
Average heat value (Btu per cubic foot).....	1,044	1,041	1,032	1,037	1,030	1,029	1,028	1,024

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Florida</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	417	240	236	205	197	192	196	160
Petroleum.....	296	213	193	190	117	116	58	43
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	14 <sup>R</sup>	15	14	16 <sup>R</sup>	14 <sup>R</sup>	14	15 <sup>R</sup>	15
Other <sup>2</sup> .....	5 <sup>R</sup>	*	1 <sup>R</sup>	1 <sup>R</sup>	1	1	1 <sup>R</sup>	1
Total.....	733	469	443	412	329	322	271	219
<b>Nitrogen Oxide .....</b>								
Coal.....	178	145	138	115	118	110	109	56
Petroleum.....	102	67	64	66	48	44	10	8
Natural Gas.....	29	30	29	27	24	25	31	31
Other Gases.....	*	2	2	2	4	4	1	1
Other Renewables <sup>1</sup> .....	9 <sup>R</sup>	8 <sup>R</sup>	8 <sup>R</sup>	9 <sup>R</sup>	8 <sup>R</sup>	9 <sup>R</sup>	9 <sup>R</sup>	11
Other <sup>2</sup> .....	13 <sup>R</sup>	10 <sup>R</sup>	10 <sup>R</sup>	9 <sup>R</sup>	9 <sup>R</sup>	9 <sup>R</sup>	9 <sup>R</sup>	9
Total.....	332	262	250	227	212	203	170	116
<b>Carbon Dioxide .....</b>								
Coal.....	66,725 <sup>R</sup>	65,745 <sup>R</sup>	63,667 <sup>R</sup>	61,099 <sup>R</sup>	63,191 <sup>R</sup>	65,615 <sup>R</sup>	63,056 <sup>R</sup>	52,917
Petroleum.....	31,828	31,508	31,947	32,616	20,709	17,712	11,116	8,713
Natural Gas.....	21,857	30,400	33,089	35,440	41,297	42,993	44,474	50,820
Other Gases.....	*	*	*	*	*	*	*	*
Other <sup>2</sup> .....	2,163 <sup>R</sup>	2,356	2,416	2,388	2,485	2,502	2,407	2,404
Total.....	122,574 <sup>R</sup>	130,010 <sup>R</sup>	131,119 <sup>R</sup>	131,543 <sup>R</sup>	127,682 <sup>R</sup>	128,822 <sup>R</sup>	121,052 <sup>R</sup>	114,854

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Florida</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	93,846	112,650	112,203	115,791	117,053	117,816	113,937	115,474	50.1	51.4
Commercial .....	69,055	85,257	86,765	89,410	91,300	93,931	93,205	92,275	36.9	41.1
Industrial .....	18,579	19,375	19,518	19,676	19,768	19,241	18,945	16,918	9.9	7.5
Other .....	5,790	NA	NA	NA	NA	NA	NA	NA	3.1	--
Transportation.....	NA	97	98	99	99	96	86	84	--	*
All Sectors .....	187,270	217,379	218,584	224,977	228,220	231,085	226,173	224,750	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	7,253	9,636	10,086	11,141	13,264	13,223	13,279	14,303	56.6	55.4
Commercial .....	4,297	6,083	6,601	7,293	9,048	9,154	9,446	9,937	33.5	38.5
Industrial.....	886	1,048	1,140	1,271	1,523	1,492	1,562	1,577	6.9	6.1
Other.....	383	NA	NA	NA	NA	NA	NA	NA	3.0	--
Transportation.....	NA	7	7	8	10	9	9	9	--	*
All Sectors .....	12,819	16,774	17,835	19,713	23,845	23,878	24,296	25,825	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.73	8.55	8.99	9.62	11.33	11.22	11.65	12.39	--	--
Commercial .....	6.22	7.13	7.61	8.16	9.91	9.75	10.14	10.77	--	--
Industrial.....	4.77	5.41	5.84	6.46	7.71	7.76	8.25	9.32	--	--
Other.....	6.61	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.21	7.45	8.03	10.32	9.73	10.18	10.48	--	--
All Sectors .....	6.85	7.72	8.16	8.76	10.45	10.33	10.74	11.49	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Florida</b>								
Number of Entities.....	5	32	NA	16	NA	NA	NA	53
Number of Retail Customers .....	7,255,856	1,339,157	NA	1,044,195	NA	NA	NA	9,639,208
Retail Sales (thousand megawatthours).....	170,962	35,020	NA	18,769	NA	NA	NA	224,750
Percentage of Retail Sales .....	76.07	15.58	--	8.35	--	--	--	100.00
Revenue from Retail Sales (million dollars) .....	19,582	4,069	NA	2,174	NA	NA	NA	25,825
Percentage of Revenue .....	75.83	15.76	--	8.42	--	--	--	100.00
Average Retail Price (cents/kWh).....	11.45	11.62	NA	11.58	NA	NA	NA	11.49

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Florida</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	166,914	188,035	193,384	196,096	200,015	200,534	196,524	195,063
Independent Power Producers .....	4,560	8,276	10,334	10,189	10,156	11,500	10,142	10,774
Combined Heat and Power, Electric .....	9,526	10,335	8,779	8,515	8,656	8,420	8,326	7,203
<b>Electric Power Sector Generation Subtotal</b> .....	<b>181,000</b>	<b>206,645</b>	<b>212,497</b>	<b>214,800</b>	<b>218,827</b>	<b>220,453</b>	<b>214,992</b>	<b>213,040</b>
Combined Heat and Power, Commercial .....	117	73	96	97	91	82	70	64
Combined Heat and Power, Industrial.....	6,146	5,891	5,524	5,359	4,834	4,881	4,575	4,848
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>6,263</b>	<b>5,965</b>	<b>5,621</b>	<b>5,456</b>	<b>4,925</b>	<b>4,963</b>	<b>4,645</b>	<b>4,912</b>
<b>Total Net Generation</b> .....	<b>187,263</b>	<b>212,610</b>	<b>218,118</b>	<b>220,256</b>	<b>223,752</b>	<b>225,416</b>	<b>219,637</b>	<b>217,952</b>
<b>Total Supply</b> .....	<b>187,263</b>	<b>212,610</b>	<b>218,118</b>	<b>220,256</b>	<b>223,752</b>	<b>225,416</b>	<b>219,637</b>	<b>217,952</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	187,270	217,372	218,584	224,977	228,220	231,085	226,173	224,750
Facility Direct Retail Sales <sup>1</sup> .....	-	7	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>187,270</b>	<b>217,379</b>	<b>218,584</b>	<b>224,977</b>	<b>228,220</b>	<b>231,085</b>	<b>226,173</b>	<b>224,750</b>
<b>Direct Use</b> .....	<b>6,659</b>	<b>6,903</b>	<b>6,910</b>	<b>5,346</b>	<b>5,274</b>	<b>4,878<sup>R</sup></b>	<b>4,924<sup>R</sup></b>	<b>4,986</b>
<b>Estimated Losses</b> .....	<b>13,575</b>	<b>12,672</b>	<b>15,125</b>	<b>16,196<sup>R</sup></b>	<b>17,306</b>	<b>19,176<sup>R</sup></b>	<b>17,767<sup>R</sup></b>	<b>16,660</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-20,241</b>	<b>-24,344</b>	<b>-22,502</b>	<b>-26,262<sup>R</sup></b>	<b>-27,048</b>	<b>-29,723<sup>R</sup></b>	<b>-29,227<sup>R</sup></b>	<b>-28,444</b>
<b>Total Disposition</b> .....	<b>187,263<sup>R</sup></b>	<b>212,610<sup>R</sup></b>	<b>218,118<sup>R</sup></b>	<b>220,256<sup>R</sup></b>	<b>223,752<sup>R</sup></b>	<b>225,416<sup>R</sup></b>	<b>219,637<sup>R</sup></b>	<b>217,952</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.90</b>	<b>0.90</b>	<b>0.91</b>	<b>0.89</b>	<b>0.89</b>	<b>0.88<sup>R</sup></b>	<b>0.88</b>	<b>0.88</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Georgia</b>		
NERC Region(s).....		SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	36,549	7
Electric Utilities.....	26,558	3
Independent Power Producers & Combined Heat and Power.....	9,990	11
Net Generation (megawatthours).....	128,698,376	9
Electric Utilities.....	115,074,702	3
Independent Power Producers & Combined Heat and Power.....	13,623,674	25
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	295	5
Nitrogen Oxide .....	74	10
Carbon Dioxide.....	77,022	8
Sulfur Dioxide (lbs/MWh) .....	5.0	13
Nitrogen Oxide (lbs/MWh) .....	1.3	26
Carbon Dioxide (lbs/MWh).....	1,319	24
Total Retail Sales (megawatthours).....	130,765,505	8
Full Service Provider Sales (megawatthours) .....	130,765,505	6
Direct Use (megawatthours) .....	4,546,158	7
Average Retail Price (cents/kWh).....	8.81	27

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Georgia</b>			
1. Scherer .....	Coal	Georgia Power Co	3,400
2. Bowen.....	Coal	Georgia Power Co	3,214
3. Vogtle .....	Nuclear	Georgia Power Co	2,302
4. Wansley .....	Coal	Georgia Power Co	1,793
5. Edwin I Hatch.....	Nuclear	Georgia Power Co	1,759
6. Harlee Branch.....	Coal	Georgia Power Co	1,607
7. Yates .....	Coal	Georgia Power Co	1,286
8. McIntosh Combined Cycle Facility.....	Gas	Georgia Power Co	1,257
9. Murray Energy Facility .....	Gas	Duke Energy Generation Services	1,250
10. Wansley Combined Cycle .....	Gas	Southern Power Co	1,143

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Georgia</b>						
1. Georgia Power Co .....	Investor-Owned	81,346,510	26,272,226	33,084,812	21,810,063	179,409
2. Jackson Electric Member Corp .....	Cooperative	4,775,738	2,800,637	1,435,457	539,644	-
3. Cobb Electric Membership Corp.....	Cooperative	3,810,539	2,403,985	1,155,977	250,577	-
4. Sawnee Electric Membership Corporation.....	Cooperative	3,002,529	1,978,669	793,726	230,134	-
5. GreyStone Power Corporation .....	Cooperative	2,570,152	1,554,103	582,726	433,323	-
Total Sales, Top Five Providers .....		95,505,468	35,009,620	37,052,698	23,263,741	179,409
Percent of Total State Sales .....		73	63	80	79	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Georgia</b>										
<b>Electric Utilities.....</b>	<b>23,329</b>	<b>24,804</b>	<b>25,404</b>	<b>26,538</b>	<b>26,542</b>	<b>26,432</b>	<b>26,462</b>	<b>26,558</b>	<b>93.4</b>	<b>72.7</b>
Coal.....	13,095	13,331	13,215	13,192	13,192	13,192	13,129	13,084	52.4	35.8
Petroleum.....	1,145	1,055	991	991	991	973	991	991	4.6	2.7
Natural Gas.....	1,564	2,827	3,470	4,618	4,609	4,577	4,577	4,652	6.3	12.7
Nuclear.....	4,038	4,040	4,053	4,060	4,060	3,995	4,061	4,061	16.2	11.1
Hydroelectric.....	2,365	2,097	2,000	2,003	2,016	2,020	2,030	2,034	9.5	5.6
Pumped Storage.....	1,124	1,454	1,675	1,675	1,675	1,675	1,675	1,737	4.5	4.8
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,659</b>	<b>10,011</b>	<b>9,934</b>	<b>9,993</b>	<b>9,957</b>	<b>10,041</b>	<b>9,994</b>	<b>9,990</b>	<b>6.6</b>	<b>27.3</b>
Coal.....	51	317	273	273	245	83	126	126	0.2	0.3
Petroleum.....	204	307	262	1,195	1,192	1,197	1,197	1,198	0.8	3.3
Natural Gas.....	673	8,977	8,883	8,015	8,010	8,075	8,058	8,053	2.7	22.0
Hydroelectric.....	12	11	11	11	11	11	11	11	*	*
Other Renewables <sup>1</sup> .....	719	399	506	499	499	675	601	602	2.9	1.6
<b>Total Electric Industry.....</b>	<b>24,988</b>	<b>34,815</b>	<b>35,338</b>	<b>36,531</b>	<b>36,499</b>	<b>36,472</b>	<b>36,456</b>	<b>36,549</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	13,146	13,648	13,488	13,465	13,438	13,275	13,256	13,211	52.6	36.1
Petroleum.....	1,349	1,361	1,252	2,185	2,182	2,169	2,187	2,188	5.4	6.0
Natural Gas.....	2,237	11,804	12,353	12,633	12,618	12,652	12,635	12,705	9.0	34.8
Nuclear.....	4,038	4,040	4,053	4,060	4,060	3,995	4,061	4,061	16.2	11.1
Hydroelectric.....	2,376	2,109	2,012	2,014	2,027	2,032	2,041	2,046	9.5	5.6
Other Renewables <sup>1</sup> .....	719	399	506	499	499	675	601	602	2.9	1.6
Pumped Storage.....	1,124	1,454	1,675	1,675	1,675	1,675	1,675	1,737	4.5	4.8

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Georgia</b>										
<b>Electric Utilities.....</b>	<b>110,536,794</b>	<b>115,755,114</b>	<b>117,918,895</b>	<b>126,444,777</b>	<b>127,367,613</b>	<b>132,831,987</b>	<b>126,031,263</b>	<b>115,074,702</b>	<b>94.2</b>	<b>89.4</b>
Coal.....	74,067,633	77,858,022	79,185,166	86,358,096	85,700,960	89,532,913	84,652,246	68,863,420	63.1	53.5
Petroleum.....	662,699	278,618	156,672	189,819	86,798	82,380	67,971	64,833	0.6	0.1
Natural Gas.....	1,653,873	890,600	2,044,196	4,567,674	7,430,266	8,777,568	7,656,500	10,943,291	1.4	8.5
Nuclear.....	31,478,122	33,256,649	33,747,705	31,534,259	32,005,810	32,544,998	31,691,095	31,682,579	26.8	24.6
Hydroelectric.....	2,722,553	4,107,318	3,663,002	4,004,150	2,544,122	2,215,776	2,120,372	3,248,591	2.3	2.5
Pumped Storage.....	-48,086	-636,093	-877,846	-209,221	-400,343	-321,649	-156,922	271,988	*	0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>6,801,951</b>	<b>8,321,720</b>	<b>8,893,820</b>	<b>10,223,115</b>	<b>10,642,595</b>	<b>12,323,171</b>	<b>10,142,132</b>	<b>13,623,674</b>	<b>5.8</b>	<b>10.6</b>
Coal.....	1,077,026	780,467	757,797	824,163	803,026	764,616	839,011	614,776	0.9	0.5
Petroleum.....	899,768	915,441	789,856	843,273	747,427	705,847	673,590	584,842	0.8	0.5
Natural Gas.....	1,574,896	3,386,391	4,085,456	5,203,360	5,530,332	7,301,376	5,771,911	9,562,458	1.3	7.4
Hydroelectric.....	28,621	32,952	29,394	27,903	24,715	20,412	24,246	11,092	*	*
Other Renewables <sup>1</sup> .....	3,212,571	3,173,273	3,191,739	3,271,888	3,418,918	3,415,422	2,781,970	2,825,170	2.7	2.2
Other <sup>2</sup> .....	9,069	33,196	39,577	52,527	118,176	115,499	51,404	25,337	*	*
<b>Total Electric Industry.....</b>	<b>117,338,745</b>	<b>124,076,834</b>	<b>126,812,715</b>	<b>136,667,892</b>	<b>138,010,208</b>	<b>145,155,158</b>	<b>136,173,395</b>	<b>128,698,376</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	75,144,659	78,638,489	79,942,963	87,182,259	86,503,986	90,297,529	85,491,258	69,478,196	64.0	54.0
Petroleum.....	1,562,467	1,194,059	946,528	1,033,092	834,225	788,227	741,561	649,674	1.3	0.5
Natural Gas.....	3,228,769	4,276,991	6,129,652	9,771,034	12,960,598	16,078,944	13,428,411	20,505,749	2.8	15.9
Nuclear.....	31,478,122	33,256,649	33,747,705	31,534,259	32,005,810	32,544,998	31,691,095	31,682,579	26.8	24.6
Hydroelectric.....	2,751,174	4,140,270	3,692,396	4,032,053	2,568,837	2,236,188	2,144,618	3,259,683	2.3	2.5
Other Renewables <sup>1</sup> .....	3,212,571	3,173,273	3,191,739	3,271,888	3,418,918	3,415,422	2,781,970	2,825,170	2.7	2.2
Pumped Storage.....	-48,086	-636,093	-877,846	-209,221	-400,343	-321,649	-156,922	271,988	*	0.2
Other <sup>2</sup> .....	9,069	33,196	39,577	52,527	118,176	115,499	51,404	25,337	*	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Georgia</b>								
Coal (cents per million Btu) .....	155	172	180	218	W	261	307	362
Average heat value (Btu per pound).....	11,740	11,668	11,024	11,058	10,994	10,983	10,947	10,933
Average sulfur Content (percent).....	0.80	0.82	0.78	0.81	0.82	0.78	0.78	0.76
Petroleum (cents per million Btu) <sup>1</sup> .....	390	268	289	433	W	537	838	552
Average heat value (Btu per gallon).....	138,495	134,648	136,533	141,855	135,864	141,493	138,081	138,371
Average sulfur Content (percent).....	0.50	4.35	4.22	3.63	4.59	4.36	3.38	3.08
Natural Gas (cents per million Btu).....	249	572	665	1,027	710	727	996	452
Average heat value (Btu per cubic foot).....	1,032	1,035	1,031	1,036	1,038	1,040	1,035	1,035

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Georgia</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	490	517	524	583	619	617	481	247
Petroleum.....	38	42	33	35	37	36	29	24
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	33 <sup>R</sup>	27	27	27	29	28	25	24
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	561	586	584	646	685	682	536	295
<b>Nitrogen Oxide .....</b>								
Coal.....	165	101	97	107	109	104	100	54
Petroleum.....	7	6	4	4	4	4	4	3
Natural Gas.....	5	4	3	4	5	6	5	7
Other Renewables <sup>1</sup> .....	12	10	10	10	12	10 <sup>R</sup>	10	10
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	189	120	115	126	130	125	119	74
<b>Carbon Dioxide .....</b>								
Coal.....	73,609 <sup>R</sup>	75,561 <sup>R</sup>	77,695 <sup>R</sup>	83,774 <sup>R</sup>	83,037 <sup>R</sup>	87,078 <sup>R</sup>	82,611 <sup>R</sup>	67,454
Petroleum.....	2,666	2,346	1,987	2,025	1,602	1,538	1,309	1,145
Natural Gas.....	2,669	2,188	2,931	4,396	5,715	7,181	5,685	8,357
Other <sup>2</sup> .....	94 <sup>R</sup>	161	150	187	666	639	145	66
Total.....	79,038 <sup>R</sup>	80,255 <sup>R</sup>	82,762 <sup>R</sup>	90,381 <sup>R</sup>	91,020 <sup>R</sup>	96,436 <sup>R</sup>	89,750 <sup>R</sup>	77,022

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Georgia</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	41,767	48,174	51,124	52,827	54,521	56,223	55,587	55,158	37.1	42.2
Commercial .....	34,093	40,554	42,316	44,663	45,547	46,997	46,876	46,080	30.3	35.2
Industrial .....	35,255	34,768	35,846	34,602	34,588	34,054	32,529	29,348	31.3	22.4
Other .....	1,541	NA	NA	NA	NA	NA	NA	NA	1.4	--
Transportation.....	NA	180	180	174	179	179	182	179	--	0.1
All Sectors .....	112,656	123,677	129,466	132,265	134,834	137,454	135,174	130,766	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	3,159	3,711	4,016	4,565	4,858	5,114	5,517	5,588	45.0	48.5
Commercial .....	2,272	2,699	2,912	3,428	3,559	3,791	4,250	4,120	32.3	35.8
Industrial.....	1,463	1,397	1,587	1,827	1,861	1,884	2,170	1,796	20.8	15.6
Other.....	130	NA	NA	NA	NA	NA	NA	NA	1.9	--
Transportation.....	NA	9	9	10	11	12	13	13	--	0.1
All Sectors .....	7,025	7,816	8,525	9,830	10,288	10,800	11,951	11,516	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.56	7.70	7.86	8.64	8.91	9.10	9.93	10.13	--	--
Commercial .....	6.67	6.66	6.88	7.67	7.81	8.07	9.07	8.94	--	--
Industrial.....	4.15	4.02	4.43	5.28	5.38	5.53	6.67	6.12	--	--
Other.....	8.47	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	4.81	5.12	5.90	6.12	6.42	7.15	7.03	--	--
All Sectors .....	6.24	6.32	6.58	7.43	7.63	7.86	8.84	8.81	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Georgia</b>								
Number of Entities.....	1	53	NA	44	NA	NA	NA	98
Number of Retail Customers.....	2,354,531	336,933	NA	1,931,746	NA	NA	NA	4,623,210
Retail Sales (thousand megawatthours).....	81,347	11,296	NA	38,123	NA	NA	NA	130,766
Percentage of Retail Sales .....	62.21	8.64	--	29.15	--	--	--	100.00
Revenue from Retail Sales (million dollars) .....	6,864	932	NA	3,720	NA	NA	NA	11,516
Percentage of Revenue .....	59.61	8.09	--	32.30	--	--	--	100.00
Average Retail Price (cents/kWh).....	8.44	8.25	NA	9.76	NA	NA	NA	8.81

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Georgia</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	110,537	115,755	117,919	126,445	127,368	132,832	126,031	115,075
Independent Power Producers .....	513	3,031	3,861	4,913	5,164	6,843	5,431	9,080
Combined Heat and Power, Electric .....	716	207	33	141	178	274	114	25
<b>Electric Power Sector Generation Subtotal</b> .....	<b>111,766</b>	<b>118,993</b>	<b>121,813</b>	<b>131,499</b>	<b>132,709</b>	<b>139,949</b>	<b>131,576</b>	<b>124,180</b>
Combined Heat and Power, Commercial .....	19	3	3	10	4	4	2	24
Combined Heat and Power, Industrial .....	5,554	5,081	4,997	5,159	5,297	5,202	4,596	4,494
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>5,573</b>	<b>5,084</b>	<b>5,000</b>	<b>5,169</b>	<b>5,301</b>	<b>5,206</b>	<b>4,598</b>	<b>4,518</b>
<b>Total Net Generation</b> .....	<b>117,339</b>	<b>124,077</b>	<b>126,813</b>	<b>136,668</b>	<b>138,010</b>	<b>145,155</b>	<b>136,173</b>	<b>128,698</b>
<b>Total Supply</b> .....	<b>117,339</b>	<b>124,077</b>	<b>126,813</b>	<b>136,668</b>	<b>138,010</b>	<b>145,155</b>	<b>136,173</b>	<b>128,698</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	112,656	123,677	129,466	132,265	134,834	137,454	135,174	130,766
<b>Total Electric Industry Retail Sales</b> .....	<b>112,656</b>	<b>123,677</b>	<b>129,466</b>	<b>132,265</b>	<b>134,834</b>	<b>137,454</b>	<b>135,174</b>	<b>130,766</b>
Direct Use .....	5,591	5,557	5,563	5,092	5,421	5,138 <sup>R</sup>	4,650 <sup>R</sup>	4,546
Estimated Losses .....	8,166	14,179 <sup>R</sup>	20,462	11,285 <sup>R</sup>	9,251	12,187 <sup>R</sup>	13,166 <sup>R</sup>	11,268
Net Interstate Trade <sup>1</sup> .....	-9,074	-19,335	-28,678	-11,975 <sup>R</sup>	-11,496	-9,624 <sup>R</sup>	-16,815 <sup>R</sup>	-17,881
<b>Total Disposition</b> .....	<b>117,339<sup>R</sup></b>	<b>124,077<sup>R</sup></b>	<b>126,813<sup>R</sup></b>	<b>136,668<sup>R</sup></b>	<b>138,010<sup>R</sup></b>	<b>145,155<sup>R</sup></b>	<b>136,173<sup>R</sup></b>	<b>128,698</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>0.93</b>	<b>0.87</b>	<b>0.82</b>	<b>0.92</b>	<b>0.92</b>	<b>0.94</b>	<b>0.89</b>	<b>0.88</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Hawaii</b>		
NERC Region(s).....		--
Primary Energy Source.....		Petroleum
Net Summer Capacity (megawatts).....	2,565	47
Electric Utilities.....	1,859	40
Independent Power Producers & Combined Heat and Power.....	706	47
Net Generation (megawatthours).....	11,010,533	45
Electric Utilities.....	6,509,550	38
Independent Power Producers & Combined Heat and Power.....	4,500,983	38
Emissions (thousand metric tons).....		
Sulfur Dioxide.....	22	37
Nitrogen Oxide.....	22	35
Carbon Dioxide.....	8,661	41
Sulfur Dioxide (lbs/MWh).....	4.5	15
Nitrogen Oxide (lbs/MWh).....	4.5	3
Carbon Dioxide (lbs/MWh).....	1,734	13
Total Retail Sales (megawatthours).....	10,126,185	48
Full Service Provider Sales (megawatthours).....	10,126,185	44
Direct Use (megawatthours).....	524,094	33
Average Retail Price (cents/kWh).....	21.21	1

There is no NERC Region for Hawaii. This is shown as "--" in the table.

MWh = Megawatthours.

kWh = Kilowatthours.

-- = Not applicable.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Hawaii</b>			
1. Kahe.....	Petroleum	Hawaiian Electric Co Inc	582
2. Waiiau.....	Petroleum	Hawaiian Electric Co Inc	457
3. Kalaeloa Cogen Plant.....	Petroleum	Kalaeloa Partners LP	214
4. Maalaea.....	Petroleum	Maui Electric Co Ltd	205
5. AES Hawaii.....	Coal	AES Hawaii Inc	180
6. Campbell Industrial Park Generating Station.....	Petroleum	Hawaiian Electric Co Inc	113
7. Honolulu.....	Petroleum	Hawaiian Electric Co Inc	100
8. Port Allen.....	Petroleum	Kauai Island Utility Cooperative	90
9. Keahole.....	Petroleum	Hawaii Electric Light Co Inc	79
10. Hamakua Energy Plant.....	Petroleum	Hamakua Energy Partners LP	61

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Hawaii</b>						
1. Hawaiian Electric Co Inc.....	Investor-Owned	7,377,537	2,025,278	2,448,536	2,903,723	-
2. Maui Electric Co Ltd.....	Investor-Owned	1,192,243	427,943	382,014	382,286	-
3. Hawaii Electric Light Co Inc.....	Investor-Owned	1,119,881	440,074	441,377	238,430	-
4. Kauai Island Utility Cooperative.....	Cooperative	436,273	161,946	115,866	158,461	-
5. Gay & Robinson Inc.....	Facility	251	32	219	-	-
Total Sales, Top Five Providers.....		10,126,185	3,055,273	3,388,012	3,682,900	-
Percent of Total State Sales.....		100	100	100	100	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Hawaii</b>										
<b>Electric Utilities.....</b>	<b>1,608</b>	<b>1,624</b>	<b>1,691</b>	<b>1,705</b>	<b>1,730</b>	<b>1,730</b>	<b>1,730</b>	<b>1,859</b>	<b>69.4</b>	<b>72.5</b>
Petroleum.....	1,605	1,620	1,687	1,699	1,724	1,724	1,724	1,740	69.3	67.8
Hydroelectric.....	4	2	2	4	4	4	4	4	0.2	0.2
Other Renewables <sup>1</sup> .....	-	2	2	2	2	2	2	115	-	4.5
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>709</b>	<b>644</b>	<b>620</b>	<b>653</b>	<b>684</b>	<b>705</b>	<b>707</b>	<b>706</b>	<b>30.6</b>	<b>27.5</b>
Coal.....	213	202	180	180	180	180	180	180	9.2	7.0
Petroleum.....	275	262	262	296	296	296	296	295	11.9	11.5
Other Gases <sup>2</sup> .....	8	9	9	9	9	9	9	9	0.3	0.4
Hydroelectric.....	24	21	21	20	20	20	20	20	1.0	0.8
Other Renewables <sup>1</sup> .....	188	150	149	149	180	201	202	202	8.1	7.9
<b>Total Electric Industry.....</b>	<b>2,317</b>	<b>2,268</b>	<b>2,311</b>	<b>2,358</b>	<b>2,414</b>	<b>2,436</b>	<b>2,437</b>	<b>2,565</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	213	202	180	180	180	180	180	180	9.2	7.0
Petroleum.....	1,880	1,882	1,949	1,994	2,019	2,020	2,019	2,034	81.1	79.3
Other Gases <sup>2</sup> .....	8	9	9	9	9	9	9	9	0.3	0.4
Hydroelectric.....	28	22	22	24	24	24	24	24	1.2	0.9
Other Renewables <sup>1</sup> .....	188	153	151	151	182	203	205	318	8.1	12.4

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Hawaii</b>										
<b>Electric Utilities.....</b>	<b>6,452,068</b>	<b>6,493,205</b>	<b>6,982,469</b>	<b>6,915,159</b>	<b>7,040,473</b>	<b>6,928,397</b>	<b>6,700,636</b>	<b>6,509,550</b>	<b>62.0</b>	<b>59.1</b>
Petroleum.....	6,429,429	6,489,565	6,971,259	6,904,293	7,015,977	6,913,231	6,682,593	6,262,182	61.8	56.9
Hydroelectric .....	18,844	2,078	9,724	9,169	23,656	14,729	17,872	28,608	0.2	0.3
Other Renewables <sup>1</sup> .....	3,795	1,562	1,486	1,697	840	437	171	3,362	*	*
Other <sup>2</sup> .....	-	-	-	-	-	-	-	215,398	-	2.0
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,951,858</b>	<b>4,483,166</b>	<b>4,427,934</b>	<b>4,607,646</b>	<b>4,518,701</b>	<b>4,604,953</b>	<b>4,675,749</b>	<b>4,500,983</b>	<b>38.0</b>	<b>40.9</b>
Coal.....	1,440,245	1,644,137	1,603,751	1,630,918	1,548,595	1,578,931	1,647,592	1,500,166	13.8	13.6
Petroleum.....	1,565,893	2,012,985	1,973,437	2,163,299	2,038,497	2,000,976	1,987,341	2,026,925	15.1	18.4
Other Gases <sup>3</sup> .....	49,511	40,251	47,908	41,133	42,757	45,226	38,572	22,345	0.5	0.2
Hydroelectric .....	96,058	88,427	84,177	87,019	96,431	77,614	66,471	84,041	0.9	0.8
Other Renewables <sup>1</sup> .....	800,151	525,469	548,129	536,272	616,802	752,910	776,626	701,473	7.7	6.4
Other <sup>2</sup> .....	-	171,897	170,532	149,006	175,619	149,295	159,146	166,033	-	1.5
<b>Total Electric Industry.....</b>	<b>10,403,926</b>	<b>10,976,371</b>	<b>11,410,403</b>	<b>11,522,805</b>	<b>11,559,174</b>	<b>11,533,350</b>	<b>11,376,385</b>	<b>11,010,533</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,440,245	1,644,137	1,603,751	1,630,918	1,548,595	1,578,931	1,647,592	1,500,166	13.8	13.6
Petroleum.....	7,995,322	8,502,550	8,944,696	9,067,592	9,054,474	8,914,207	8,669,934	8,289,107	76.8	75.3
Other Gases <sup>3</sup> .....	49,511	40,251	47,908	41,133	42,757	45,226	38,572	22,345	0.5	0.2
Hydroelectric .....	114,902	90,505	93,901	96,188	120,087	92,343	84,343	112,649	1.1	1.0
Other Renewables <sup>1</sup> .....	803,946	527,031	549,615	537,969	617,642	753,347	776,797	704,835	7.7	6.4
Other <sup>2</sup> .....	-	171,897	170,532	149,006	175,619	149,295	159,146	381,432	-	3.5

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

<sup>3</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Hawaii</b>								
Coal (cents per million Btu) .....	-	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	-	11,422	11,097	10,975	10,943	10,871	10,669	10,640
Average sulfur Content (percent).....	-	0.44	0.49	0.55	0.51	0.47	0.66	0.65
Petroleum (cents per million Btu) <sup>1</sup> .....	320	W	W	W	W	W	W	W
Average heat value (Btu per gallon).....	149,490	140,581	140,629	135,093	134,674	134,890	143,850	144,283
Average sulfur Content (percent).....	0.44	0.42	0.45	0.34	0.33	0.34	0.36	0.36

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Hawaii</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	3	1	1	1	1	1	2	2
Petroleum.....	41	21	22	20	21	21	20	21
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	*
Other <sup>2</sup> .....	*R	*	*	*	*	*	*	*
Total.....	44	23	24	21	22	22	21	22
<b>Nitrogen Oxide .....</b>								
Coal.....	4	1	1	1	1	1	1	1
Petroleum.....	22	25	26	27	27	21	19	20
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	1 <sup>R</sup>	1	1	*	*	*	*	*
Other <sup>2</sup> .....	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1
Total.....	28	28	29	30	29	23	22	22
<b>Carbon Dioxide .....</b>								
Coal.....	1,453 <sup>R</sup>	1,728 <sup>R</sup>	1,739 <sup>R</sup>	1,602 <sup>R</sup>	1,538 <sup>R</sup>	1,605 <sup>R</sup>	1,664 <sup>R</sup>	1,578
Petroleum.....	6,708	6,806	7,245	7,341	7,379	7,228	7,139	6,837
Geothermal .....	5	5	5	6	5	6	6	4
Other <sup>2</sup> .....	220 <sup>R</sup>	211	213	184	215	187	238	242
Total.....	8,386 <sup>R</sup>	8,750 <sup>R</sup>	9,203 <sup>R</sup>	9,132 <sup>R</sup>	9,138 <sup>R</sup>	9,026 <sup>R</sup>	9,048 <sup>R</sup>	8,661

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Hawaii</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	2,689	3,028	3,162	3,164	3,182	3,201	3,085	3,055	28.7	30.2
Commercial .....	2,887	3,517	3,632	3,463	3,490	3,520	3,501	3,388	30.8	33.5
Industrial .....	3,748	3,846	3,937	3,912	3,896	3,864	3,804	3,683	39.9	36.4
Other .....	57	NA	NA	NA	NA	NA	NA	NA	0.6	--
All Sectors .....	9,381	10,391	10,732	10,539	10,568	10,585	10,390	10,126	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	384	507	571	655	743	772	1,003	739	34.2	34.4
Commercial .....	368	528	588	659	748	771	1,040	741	32.7	34.5
Industrial.....	364	469	526	618	700	710	991	668	32.4	31.1
Other.....	7	NA	NA	NA	NA	NA	NA	NA	0.6	--
All Sectors .....	1,123	1,504	1,685	1,932	2,190	2,253	3,034	2,148	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	14.30	16.73	18.06	20.70	23.35	24.12	32.50	24.20	--	--
Commercial .....	12.74	15.02	16.19	19.04	21.42	21.91	29.72	21.86	--	--
Industrial.....	9.70	12.20	13.35	15.79	17.96	18.38	26.05	18.14	--	--
Other.....	12.66	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	11.97	14.47	15.70	18.33	20.72	21.29	29.20	21.21	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Hawaii</b>								
Number of Entities.....	3	NA	NA	1	1	NA	NA	5
Number of Retail Customers .....	442,071	NA	NA	32,317	12	NA	NA	474,400
Retail Sales (thousand megawatthours).....	9,690	NA	NA	436	*	NA	NA	10,126
Percentage of Retail Sales .....	95.69	--	--	4.31	*	--	--	100.00
Revenue from Retail Sales (million dollars).....	2,019	NA	NA	130	*	NA	NA	2,148
Percentage of Revenue .....	93.97	--	--	6.03	*	--	--	100.00
Average Retail Price (cents/kWh).....	20.83	NA	NA	29.68	18.73	NA	NA	21.21

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Hawaii</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	6,452	6,493	6,982	6,915	7,040	6,928	6,701	6,510
Independent Power Producers .....	603	551	267	280	349	508	901	804
Combined Heat and Power, Electric .....	2,782	3,640	3,568	3,769	3,566	3,525	3,190	3,122
<b>Electric Power Sector Generation Subtotal</b> .....	<b>9,837</b>	<b>10,685</b>	<b>10,818</b>	<b>10,964</b>	<b>10,956</b>	<b>10,961</b>	<b>10,792</b>	<b>10,435</b>
Combined Heat and Power, Commercial .....	-	-	325	293	339	304	330	323
Combined Heat and Power, Industrial .....	567	292	267	266	264	268	255	253
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>567</b>	<b>292</b>	<b>593</b>	<b>559</b>	<b>603</b>	<b>573</b>	<b>584</b>	<b>576</b>
<b>Total Net Generation</b> .....	<b>10,404</b>	<b>10,976</b>	<b>11,410</b>	<b>11,523</b>	<b>11,559</b>	<b>11,533</b>	<b>11,376</b>	<b>11,011</b>
<b>Total Supply</b> .....	<b>10,404</b>	<b>10,976</b>	<b>11,410</b>	<b>11,523</b>	<b>11,559</b>	<b>11,533</b>	<b>11,376</b>	<b>11,011</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	9,381	10,206	10,510	10,539	10,568	10,585	10,390	10,126
Facility Direct Retail Sales <sup>1</sup> .....	-	184	221	*	-	*	*	*
<b>Total Electric Industry Retail Sales</b> .....	<b>9,381</b>	<b>10,391</b>	<b>10,732</b>	<b>10,539</b>	<b>10,568</b>	<b>10,585</b>	<b>10,390</b>	<b>10,126</b>
<b>Direct Use</b> .....	<b>519</b>	<b>480</b>	<b>481</b>	<b>398</b>	<b>365</b>	<b>338<sup>R</sup></b>	<b>396</b>	<b>524</b>
<b>Estimated Losses</b> .....	<b>680</b>	<b>460</b>	<b>524</b>	<b>643</b>	<b>681</b>	<b>766<sup>R</sup></b>	<b>717<sup>R</sup></b>	<b>642</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-176</b>	<b>-355</b>	<b>-325</b>	<b>-57</b>	<b>-55</b>	<b>-157<sup>R</sup></b>	<b>-127<sup>R</sup></b>	<b>-282</b>
<b>Total Disposition</b> .....	<b>10,404<sup>R</sup></b>	<b>10,976<sup>R</sup></b>	<b>11,410<sup>R</sup></b>	<b>11,523<sup>R</sup></b>	<b>11,559<sup>R</sup></b>	<b>11,533<sup>R</sup></b>	<b>11,376<sup>R</sup></b>	<b>11,011</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.98</b>	<b>0.97</b>	<b>0.97</b>	<b>1.00</b>	<b>1.00</b>	<b>0.99</b>	<b>0.99<sup>R</sup></b>	<b>0.98</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Idaho</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Hydroelectric
Net Summer Capacity (megawatts) .....	3,758	44
Electric Utilities.....	3,029	37
Independent Power Producers & Combined Heat and Power.....	729	46
Net Generation (megawatthours).....	13,100,152	44
Electric Utilities.....	9,977,502	36
Independent Power Producers & Combined Heat and Power.....	3,122,650	39
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	5	45
Nitrogen Oxide.....	2	49
Carbon Dioxide.....	1,024	49
Sulfur Dioxide (lbs/MWh) .....	0.8	42
Nitrogen Oxide (lbs/MWh) .....	0.3	50
Carbon Dioxide (lbs/MWh).....	172	50
Total Retail Sales (megawatthours).....	22,753,779	38
Full Service Provider Sales (megawatthours) .....	22,753,779	37
Direct Use (megawatthours) .....	623,181	31
Average Retail Price (cents/kWh).....	6.51	50

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Idaho</b>			
1. Brownlee.....	Hydroelectric	Idaho Power Co	744
2. Dworshak.....	Hydroelectric	USCE-North Pacific Division	400
3. Cabinet Gorge.....	Hydroelectric	Avista Corp	255
4. Rathdrum Power LLC .....	Gas	Rathdrum Operating Services Co., Inc.	248
5. Evander Andrews Power Complex .....	Gas	Idaho Power Co	247
6. Palisades .....	Hydroelectric	U S Bureau of Reclamation	176
7. Bennett Mountain .....	Gas	Idaho Power Co	164
8. Rathdrum .....	Gas	Avista Corp	132
9. American Falls.....	Hydroelectric	Idaho Power Co	110
10. C J Strike .....	Hydroelectric	Idaho Power Co	94

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Idaho Power Co .....	Investor-Owned	13,275,219	5,094,579	3,707,165	4,473,475	-
2. Avista Corp.....	Investor-Owned	3,444,692	1,224,836	1,021,449	1,198,407	-
3. PacifiCorp.....	Investor-Owned	2,955,687	716,349	437,549	1,801,789	-
4. Idaho Falls City of.....	Public	698,154	293,230	310,761	94,163	-
5. Kootenai Electric Coop Inc .....	Cooperative	420,310	293,332	102,406	24,572	-
Total Sales, Top Five Providers .....		20,794,062	7,622,326	5,579,330	7,592,406	-
Percent of Total State Sales .....		91	89	93	93	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>2,571</b>	<b>2,439</b>	<b>2,394</b>	<b>2,558</b>	<b>2,558</b>	<b>2,547</b>	<b>2,686</b>	<b>3,029</b>	<b>85.6</b>	<b>80.6</b>
Petroleum.....	6	5	5	5	5	5	5	5	0.2	0.1
Natural Gas.....	136	212	212	376	376	376	536	543	4.5	14.4
Hydroelectric .....	2,429	2,221	2,176	2,176	2,176	2,166	2,144	2,481	80.9	66.0
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>433</b>	<b>563</b>	<b>592</b>	<b>602</b>	<b>652</b>	<b>649</b>	<b>692</b>	<b>729</b>	<b>14.4</b>	<b>19.4</b>
Coal.....	18	17	17	17	17	17	17	17	0.6	0.5
Natural Gas.....	18	269	269	269	269	269	269	269	0.6	7.2
Hydroelectric .....	251	193	214	214	201	202	202	202	8.4	5.4
Other Renewables <sup>1</sup> .....	130	70	77	88	150	146	189	227	4.3	6.0
Other <sup>2</sup> .....	15	15	15	15	15	15	15	15	0.5	0.4
<b>Total Electric Industry.....</b>	<b>3,003</b>	<b>3,002</b>	<b>2,986</b>	<b>3,160</b>	<b>3,210</b>	<b>3,196</b>	<b>3,378</b>	<b>3,758</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	18	17	17	17	17	17	17	17	0.6	0.5
Petroleum.....	6	5	5	5	5	5	5	5	0.2	0.1
Natural Gas.....	154	481	481	645	645	645	805	812	5.1	21.6
Hydroelectric .....	2,681	2,414	2,391	2,390	2,378	2,367	2,346	2,682	89.3	71.4
Other Renewables <sup>1</sup> .....	130	70	77	88	150	146	189	227	4.3	6.0
Other <sup>2</sup> .....	15	15	15	15	15	15	15	15	0.5	0.4

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Idaho</b>										
<b>Electric Utilities.....</b>	<b>12,456,120</b>	<b>7,732,812</b>	<b>7,765,655</b>	<b>8,032,438</b>	<b>10,495,090</b>	<b>8,611,890</b>	<b>8,893,983</b>	<b>9,977,502</b>	<b>86.3</b>	<b>76.2</b>
Petroleum.....	155	116	136	5	144	134	120	41	*	*
Natural Gas.....	-	61,229	27,775	73,353	94,504	240,504	230,189	286,865	-	2.2
Hydroelectric.....	12,455,965	7,671,467	7,737,744	7,959,080	10,400,442	8,371,252	8,663,674	9,690,596	86.3	74.0
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,980,528</b>	<b>2,690,124</b>	<b>3,097,384</b>	<b>2,792,546</b>	<b>2,890,995</b>	<b>2,872,201</b>	<b>3,076,570</b>	<b>3,122,650</b>	<b>13.7</b>	<b>23.8</b>
Coal.....	51,887	90,290	99,203	95,181	82,302	83,564	90,449	82,565	0.4	0.6
Petroleum.....	89	-	-	-	-	-	-	-	*	-
Natural Gas.....	331,610	1,313,591	1,676,048	1,523,927	1,203,891	1,416,751	1,469,364	1,356,730	2.3	10.4
Hydroelectric.....	1,043,186	682,567	723,911	583,041	841,930	650,438	698,827	743,668	7.2	5.7
Other Renewables <sup>1</sup> .....	472,685	540,953	560,280	559,631	689,957	652,849	748,412	867,316	3.3	6.6
Other <sup>2</sup> .....	81,071	62,722	37,942	30,766	72,916	68,599	69,517	72,371	0.6	0.6
<b>Total Electric Industry.....</b>	<b>14,436,648</b>	<b>10,422,936</b>	<b>10,863,039</b>	<b>10,824,984</b>	<b>13,386,085</b>	<b>11,484,091</b>	<b>11,970,553</b>	<b>13,100,152</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	51,887	90,290	99,203	95,181	82,302	83,564	90,449	82,565	0.4	0.6
Petroleum.....	244	116	136	5	144	134	120	41	*	*
Natural Gas.....	331,610	1,374,820	1,703,823	1,597,280	1,298,395	1,657,255	1,699,553	1,643,595	2.3	12.5
Hydroelectric.....	13,499,151	8,354,034	8,461,655	8,542,121	11,242,372	9,021,690	9,362,501	10,434,264	93.5	79.6
Other Renewables <sup>1</sup> .....	472,685	540,953	560,280	559,631	689,957	652,849	748,412	867,316	3.3	6.6
Other <sup>2</sup> .....	81,071	62,722	37,942	30,766	72,916	68,599	69,517	72,371	0.6	0.6

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Idaho</b>								
Coal (cents per million Btu) .....	-	-	-	-	-	-	W	W
Average heat value (Btu per pound).....	-	-	-	-	-	-	9,947	10,963
Average sulfur Content (percent).....	-	-	-	-	-	-	0.85	1.34
Petroleum (cents per million Btu) <sup>1</sup> .....	-	-	-	-	-	-	NM	1,409
Average heat value (Btu per gallon).....	-	-	-	-	-	-	NM	138,024
Average sulfur Content (percent).....	-	-	-	-	-	-	NM	0.13
Natural Gas (cents per million Btu).....	-	W	W	W	W	W	W	463
Average heat value (Btu per cubic foot).....	-	1,018	1,024	1,015	1,021	1,024	1,017	1,016

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

NM = Not meaningful due to large relative standard error. Please see Technical Notes and Appendix tables published in the Cost and Quality of Fuels.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Idaho</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	3	3	4	2	2	4	3	1
Petroleum.....	*	-	-	-	-	-	-	-
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	3	3	3	3	3	3	3	3
Total.....	6	6	7	5	5	7	6	5
<b>Nitrogen Oxide .....</b>								
Coal.....	1	2	2	1	1	2	2	1
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	1	1	1	1	*	*	*	*
Other Renewables <sup>1</sup> .....	1	1	1	1	1	1	1	1
Other <sup>2</sup> .....	*	*	*	*	*	*	-	-
Total.....	4	3	4	2	2	4	3	2
<b>Carbon Dioxide .....</b>								
Coal.....	385	505 <sup>R</sup>	491 <sup>R</sup>	500 <sup>R</sup>	281 <sup>R</sup>	492 <sup>R</sup>	258 <sup>R</sup>	242
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	555	609	818	845	601	792	757	780
Geothermal.....	-	-	-	-	-	-	2	2
Total.....	940	1,114 <sup>R</sup>	1,309 <sup>R</sup>	1,345 <sup>R</sup>	882 <sup>R</sup>	1,284 <sup>R</sup>	1,017 <sup>R</sup>	1,024

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Idaho</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	6,806	7,090	7,314	7,601	8,057	8,339	8,540	8,554	30.0	37.6
Commercial .....	6,450	5,466	5,484	5,615	5,813	6,015	6,049	6,005	28.4	26.4
Industrial .....	9,171	8,663	9,011	8,636	8,891	9,401	9,313	8,195	40.4	36.0
Other .....	296	NA	NA	NA	NA	NA	NA	NA	1.3	--
All Sectors .....	22,722	21,219	21,809	21,853	22,762	23,755	23,901	22,754	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	358	443	446	478	500	530	597	667	40.5	45.1
Commercial .....	271	304	294	304	300	309	346	389	30.7	26.3
Industrial.....	241	360	344	337	321	364	418	424	27.3	28.6
Other.....	13	NA	NA	NA	NA	NA	NA	NA	1.5	--
All Sectors .....	884	1,107	1,085	1,120	1,121	1,204	1,361	1,481	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	5.26	6.24	6.10	6.29	6.21	6.36	6.99	7.80	--	--
Commercial .....	4.20	5.56	5.37	5.42	5.16	5.14	5.72	6.49	--	--
Industrial.....	2.63	4.16	3.82	3.91	3.61	3.87	4.48	5.17	--	--
Other.....	4.47	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	3.89	5.22	4.97	5.12	4.92	5.07	5.69	6.51	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Idaho</b>								
Number of Entities.....	3	11	1	17	NA	NA	NA	32
Number of Retail Customers .....	661,735	42,478	1	82,342	NA	NA	NA	786,556
Retail Sales (thousand megawatthours).....	19,676	1,102	35	1,941	NA	NA	NA	22,754
Percentage of Retail Sales .....	86.47	4.84	0.16	8.53	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	1,289	63	*	129	NA	NA	NA	1,481
Percentage of Revenue .....	87.03	4.24	*	8.73	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.55	5.69	0.01	6.66	NA	NA	NA	6.51

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Idaho</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	12,456	7,733	7,766	8,032	10,495	8,612	8,894	9,978
Independent Power Producers .....	1,043	1,788	2,175	1,895	2,042	2,098	2,361	2,324
Combined Heat and Power, Electric .....	209	245	248	240	214	177	134	192
<b>Electric Power Sector Generation Subtotal</b> .....	<b>13,708</b>	<b>9,765</b>	<b>10,188</b>	<b>10,167</b>	<b>12,751</b>	<b>10,888</b>	<b>11,389</b>	<b>12,494</b>
Combined Heat and Power, Industrial.....	729	658	675	658	635	596	581	607
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>729</b>	<b>658</b>	<b>675</b>	<b>658</b>	<b>635</b>	<b>596</b>	<b>581</b>	<b>607</b>
<b>Total Net Generation</b> .....	<b>14,437</b>	<b>10,423</b>	<b>10,863</b>	<b>10,825</b>	<b>13,386</b>	<b>11,484</b>	<b>11,971</b>	<b>13,100</b>
<b>Total International Imports</b> .....	<b>86</b>	<b>2</b>	<b>33</b>	<b>89</b>	<b>40</b>	<b>100</b>	<b>54</b>	<b>14</b>
<b>Total Supply</b> .....	<b>14,523</b>	<b>10,425</b>	<b>10,896</b>	<b>10,914</b>	<b>13,426</b>	<b>11,584</b>	<b>12,025</b>	<b>13,114</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	21,846	21,214	21,767	21,853	22,762	23,755	23,893	22,754
Energy-Only Providers .....	876	-	41	-	-	-	-	-
Facility Direct Retail Sales <sup>1</sup> .....	-	5	-	-	-	-	8	-
<b>Total Electric Industry Retail Sales</b> .....	<b>22,722</b>	<b>21,219</b>	<b>21,809</b>	<b>21,853</b>	<b>22,762</b>	<b>23,755</b>	<b>23,901</b>	<b>22,754</b>
<b>Direct Use</b> .....	<b>665</b>	<b>710</b>	<b>711</b>	<b>550</b>	<b>605</b>	<b>663</b>	<b>613</b>	<b>623</b>
<b>Total International Exports</b> .....	<b>22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>56</b>	<b>89</b>	<b>59</b>
<b>Estimated Losses</b> .....	<b>1,647</b>	<b>1,824</b>	<b>1,969</b>	<b>1,918<sup>R</sup></b>	<b>2,073</b>	<b>2,305<sup>R</sup></b>	<b>2,367<sup>R</sup></b>	<b>2,012</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-10,534</b>	<b>-13,328</b>	<b>-13,593</b>	<b>-13,406</b>	<b>-12,014</b>	<b>-15,195<sup>R</sup></b>	<b>-14,945<sup>R</sup></b>	<b>-12,333</b>
<b>Total Disposition</b> .....	<b>14,523<sup>R</sup></b>	<b>10,425<sup>R</sup></b>	<b>10,896<sup>R</sup></b>	<b>10,914<sup>R</sup></b>	<b>13,426<sup>R</sup></b>	<b>11,584<sup>R</sup></b>	<b>12,025<sup>R</sup></b>	<b>13,114</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.58</b>	<b>0.44</b>	<b>0.44</b>	<b>0.45</b>	<b>0.53</b>	<b>0.43<sup>R</sup></b>	<b>0.45</b>	<b>0.52</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Illinois</b>		
NERC Region(s).....		MRO/RFC/SERC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	44,033	5
Electric Utilities.....	4,830	35
Independent Power Producers & Combined Heat and Power.....	39,204	3
Net Generation (megawatthours).....	193,864,357	5
Electric Utilities.....	10,633,876	35
Independent Power Producers & Combined Heat and Power.....	183,230,482	3
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	237	8
Nitrogen Oxide.....	78	8
Carbon Dioxide.....	98,975	6
Sulfur Dioxide (lbs/MWh) .....	2.7	26
Nitrogen Oxide (lbs/MWh) .....	0.9	38
Carbon Dioxide (lbs/MWh).....	1,126	33
Total Retail Sales (megawatthours).....	136,688,466	7
Full Service Provider Sales (megawatthours) .....	74,194,507	19
Energy-Only Provider Sales (megawatthours).....	62,493,959	1
Direct Use (megawatthours) .....	3,289,437	8
Average Retail Price (cents/kWh).....	9.08	22

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Illinois</b>			
1. Braidwood Generation Station .....	Nuclear	Exelon Nuclear	2,330
2. Byron Generating Station .....	Nuclear	Exelon Nuclear	2,300
3. LaSalle Generating Station .....	Nuclear	Exelon Nuclear	2,238
4. Quad Cities Generating Station .....	Nuclear	Exelon Nuclear	1,774
5. Baldwin Energy Complex .....	Coal	Dynegy Midwest Generation Inc	1,761
6. Dresden Generating Station.....	Nuclear	Exelon Nuclear	1,734
7. Powerton.....	Coal	Midwest Generations EME LLC	1,538
8. Elwood Energy LLC.....	Gas	Dominion Elwood Services Co	1,350
9. Newton.....	Coal	Ameren Energy Generating Co	1,204
10. Kincaid Generation LLC .....	Coal	Dominion Energy Services Co	1,158

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Commonwealth Edison Co.....	Investor-Owned	41,887,678	26,618,326	14,052,966	1,216,386	-
2. MidAmerican Energy Co.....	Investor-Owned	11,658,850	626,368	4,924,751	6,107,731	-
3. Exelon Energy Company.....	Other Provider	10,164,885	-	10,054,779	-	110,106
4. Constellation NewEnergy, Inc.....	Other Provider	8,799,797	-	5,251,547	3,548,250	-
5. Illinois Power Co.....	Investor-Owned	8,367,482	5,466,187	2,779,174	113,571	8,550
Total Sales, Top Five Providers.....		80,878,692	32,710,881	37,063,217	10,985,938	118,656
Percent of Total State Sales.....		59	74	74	26	22

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Illinois</b>										
<b>Electric Utilities.....</b>	<b>16,992</b>	<b>3,007</b>	<b>2,994</b>	<b>3,987</b>	<b>4,742</b>	<b>4,642</b>	<b>4,691</b>	<b>4,830</b>	<b>49.3</b>	<b>11.0</b>
Coal.....	5,543	1,866	1,859	1,844	1,844	1,767	1,833	1,998	16.1	4.5
Petroleum.....	989	368	401	399	399	377	381	372	2.9	0.8
Natural Gas.....	732	761	722	1,729	2,485	2,483	2,462	2,442	2.1	5.5
Nuclear.....	9,716	-	-	-	-	-	-	-	28.2	-
Hydroelectric.....	12	12	12	13	13	13	13	13	*	*
Other Renewables <sup>1</sup> .....	-	-	-	2	2	2	2	5	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>17,487</b>	<b>42,534</b>	<b>39,038</b>	<b>38,542</b>	<b>37,547</b>	<b>38,089</b>	<b>38,515</b>	<b>39,204</b>	<b>50.7</b>	<b>89.0</b>
Coal.....	10,792	13,795	13,832	13,945	13,887	13,815	13,819	13,854	31.3	31.5
Petroleum.....	94	930	754	754	744	720	719	719	0.3	1.6
Natural Gas.....	5,493	16,071	12,800	12,138	11,220	11,226	11,409	11,364	15.9	25.8
Other Gases <sup>2</sup> .....	45	40	47	47	47	47	40	47	0.1	0.1
Nuclear.....	930	11,465	11,379	11,388	11,379	11,379	11,379	11,441	2.7	26.0
Hydroelectric.....	21	21	21	20	20	20	20	20	0.1	*
Other Renewables <sup>1</sup> .....	106	193	184	231	230	882	1,110	1,739	0.3	3.9
Other <sup>3</sup> .....	7	20	20	20	20	-	20	20	*	*
<b>Total Electric Industry.....</b>	<b>34,479</b>	<b>45,541</b>	<b>42,032</b>	<b>42,530</b>	<b>42,289</b>	<b>42,731</b>	<b>43,206</b>	<b>44,033</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	16,335	15,661	15,691	15,789	15,731	15,582	15,653	15,852	47.4	36.0
Petroleum.....	1,083	1,298	1,155	1,154	1,143	1,097	1,099	1,090	3.1	2.5
Natural Gas.....	6,225	16,832	13,522	13,867	13,705	13,709	13,870	13,806	18.1	31.4
Other Gases <sup>2</sup> .....	45	40	47	47	47	47	40	47	0.1	0.1
Nuclear.....	10,646	11,465	11,379	11,388	11,379	11,379	11,379	11,441	30.9	26.0
Hydroelectric.....	33	33	33	33	33	33	34	34	0.1	0.1
Other Renewables <sup>1</sup> .....	106	193	184	232	231	884	1,112	1,744	0.3	4.0
Other <sup>3</sup> .....	7	20	20	20	20	-	20	20	*	*

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Illinois</b>										
<b>Electric Utilities.....</b>	<b>149,807,865</b>	<b>9,563,746</b>	<b>19,184,751</b>	<b>10,767,684</b>	<b>11,094,235</b>	<b>9,977,633</b>	<b>3,811,235</b>	<b>10,633,876</b>	<b>91.7</b>	<b>5.5</b>
Coal.....	64,918,712	9,390,702	18,923,288	10,103,378	10,622,870	9,150,501	3,405,766	10,395,045	39.7	5.4
Petroleum.....	372,387	48,792	120,725	137,746	45,626	25,128	10,978	27,767	0.2	*
Natural Gas.....	3,041,941	53,174	62,240	456,421	325,382	713,867	330,366	162,303	1.9	0.1
Nuclear.....	81,355,951	-	-	-	-	-	-	-	49.8	-
Hydroelectric.....	52,030	71,078	72,165	61,879	84,682	67,950	60,233	45,482	*	*
Other Renewables <sup>1</sup> .....	66,844	-	6,333	8,260	15,675	20,187	3,892	3,279	*	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>13,602,655</b>	<b>179,491,514</b>	<b>172,773,027</b>	<b>183,352,462</b>	<b>181,332,723</b>	<b>190,283,048</b>	<b>195,663,943</b>	<b>183,230,482</b>	<b>8.3</b>	<b>94.5</b>
Coal.....	10,170,815	78,590,647	75,478,340	82,161,812	81,025,894	86,114,412	93,238,273	79,571,815	6.2	41.0
Petroleum.....	28,099	1,072,125	641,615	189,444	90,121	106,539	131,750	84,764	*	*
Natural Gas.....	1,954,587	3,849,288	3,331,072	6,657,830	4,953,616	6,827,660	3,929,503	4,332,416	1.2	2.2
Other Gases <sup>2</sup> .....	321,263	203,627	246,008	198,799	148,822	134,271	53,874	88,374	0.2	*
Nuclear.....	387,938	94,733,036	92,047,323	93,263,001	94,154,140	95,728,845	95,151,694	95,473,920	0.2	49.2
Hydroelectric.....	90,064	67,422	81,364	67,158	88,590	85,777	78,316	90,898	0.1	*
Other Renewables <sup>1</sup> .....	629,006	818,951	815,666	774,621	833,157	1,264,565	3,031,085	3,526,473	0.4	1.8
Other <sup>3</sup> .....	20,883	156,418	131,640	39,797	38,383	20,978	49,448	61,820	*	*
<b>Total Electric Industry.....</b>	<b>163,410,520</b>	<b>189,055,260</b>	<b>191,957,778</b>	<b>194,120,146</b>	<b>192,426,958</b>	<b>200,260,681</b>	<b>199,475,178</b>	<b>193,864,357</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	75,089,527	87,981,349	94,401,628	92,265,190	91,648,764	95,264,914	96,644,038	89,966,860	46.0	46.4
Petroleum.....	400,486	1,120,917	762,340	327,190	135,747	131,667	142,728	112,531	0.2	0.1
Natural Gas.....	4,996,528	3,902,462	3,393,312	7,114,251	5,278,998	7,541,527	4,259,870	4,494,720	3.1	2.3
Other Gases <sup>2</sup> .....	321,263	203,627	246,008	198,799	148,822	134,271	53,874	88,374	0.2	*
Nuclear.....	81,743,889	94,733,036	92,047,323	93,263,001	94,154,140	95,728,845	95,151,694	95,473,920	50.0	49.2
Hydroelectric.....	142,094	138,500	153,529	129,037	173,272	153,727	138,549	136,380	0.1	0.1
Other Renewables <sup>1</sup> .....	695,850	818,951	821,999	782,881	848,832	1,284,752	3,034,977	3,529,752	0.4	1.8
Other <sup>3</sup> .....	20,883	156,418	131,640	39,797	38,383	20,978	49,448	61,820	*	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Illinois</b>								
Coal (cents per million Btu) .....	144	116	115	119	126	134	158	165
Average heat value (Btu per pound).....	9,560	9,176	9,120	9,015	8,937	8,962	8,892	8,876
Average sulfur Content (percent).....	1.03	0.66	0.65	0.62	0.53	0.52	0.50	0.48
Petroleum (cents per million Btu) <sup>1</sup> .....	291	540	464	1,286	1,465	1,744	2,432	1,505
Average heat value (Btu per gallon).....	130,367	147,876	143,595	137,405	141,102	137,319	137,310	137,181
Average sulfur Content (percent).....	1.24	0.48	1.91	0.72	0.23	0.25	0.21	0.20
Natural Gas (cents per million Btu).....	236	567	638	873	717	708	967	517
Average heat value (Btu per cubic foot).....	1,022	1,016	1,013	1,019	1,021	1,019	1,012	1,008

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Illinois</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	732	369	384	351	308	301	344	237
Petroleum.....	24	4	2	1	*	1	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	*
Other <sup>2</sup> .....	1	1	1	*	*	*	*	*
Total.....	757	374	387	351	309	302	345	237
<b>Nitrogen Oxide .....</b>								
Coal.....	265	137	136	121	113	111	113	70
Petroleum.....	5	2	1	*	*	*	*	*
Natural Gas.....	9	6	6	4	5	4	2	2
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	2 <sup>R</sup>	5	5	6	4	5	6	6
Other <sup>2</sup> .....	1 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	281	151	149	131	122	120	121	78
<b>Carbon Dioxide .....</b>								
Coal.....	82,104 <sup>R</sup>	92,348 <sup>R</sup>	99,347 <sup>R</sup>	97,856 <sup>R</sup>	97,774 <sup>R</sup>	101,733 <sup>R</sup>	103,435 <sup>R</sup>	96,188
Petroleum.....	861	1,122	802	362	139	117	116	98
Natural Gas.....	4,444	2,792	2,540	4,097	3,084	4,402	2,798	2,629
Other <sup>2</sup> .....	114	162	135	64	77	47	81	60
Total.....	87,522 <sup>R</sup>	96,423 <sup>R</sup>	102,825 <sup>R</sup>	102,379 <sup>R</sup>	101,074 <sup>R</sup>	106,299 <sup>R</sup>	106,430 <sup>R</sup>	98,975

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Illinois</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	39,631	43,161	43,443	48,593	46,381	48,036	46,780	44,324	29.9	32.4
Commercial .....	41,968	49,561	47,358	49,977	50,631	52,043	51,770	50,329	31.6	36.8
Industrial .....	41,972	43,042	48,008	45,888	44,916	45,430	45,503	41,507	31.6	30.4
Other .....	9,111	NA	NA	NA	NA	NA	NA	NA	6.9	--
Transportation.....	NA	484	445	528	519	545	566	527	--	0.4
All Sectors .....	132,682	136,248	139,254	144,986	142,448	146,055	144,620	136,688	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	3,501	3,616	3,638	4,055	3,907	4,863	5,178	4,996	37.9	40.3
Commercial .....	3,097	3,618	3,570	3,875	4,025	4,462	6,104	4,526	33.5	36.5
Industrial.....	2,095	2,092	2,232	2,115	2,106	3,001	2,067	2,841	22.7	22.9
Other.....	542	NA	NA	NA	NA	NA	NA	NA	5.9	--
Transportation.....	NA	28	25	30	29	35	41	44	--	0.4
All Sectors .....	9,235	9,353	9,465	10,074	10,067	12,361	13,390	12,407	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.83	8.38	8.37	8.34	8.42	10.12	11.07	11.27	--	--
Commercial .....	7.38	7.30	7.54	7.75	7.95	8.57	11.79	8.99	--	--
Industrial.....	4.99	4.86	4.65	4.61	4.69	6.61	4.54	6.84	--	--
Other.....	5.95	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	5.87	5.70	5.61	5.59	6.43	7.23	8.32	--	--
All Sectors .....	6.96	6.86	6.80	6.95	7.07	8.46	9.26	9.08	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Illinois</b>								
Number of Entities.....	6	41	NA	27	2	23	5	104
Number of Retail Customers .....	5,029,111	266,134	NA	296,162	290	64,862	NA	5,656,559
Retail Sales (thousand megawatthours).....	61,165	6,590	NA	5,947	492	62,494	NA	136,688
Percentage of Retail Sales .....	44.75	4.82	--	4.35	0.36	45.72	--	100.00
Revenue from Retail Sales (million dollars) .....	6,459	600	NA	635	12	3,905	796	12,407
Percentage of Revenue .....	52.06	4.84	--	5.12	0.10	31.47	6.41	100.00
Average Retail Price (cents/kWh).....	10.56	9.11	NA	10.68	2.42	6.25	1.27	9.08

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Illinois</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	149,808	9,564	19,185	10,768	11,094	9,978	3,811	10,634
Independent Power Producers .....	9,609	175,640	168,824	179,260	177,412	186,235	192,080	179,908
Combined Heat and Power, Electric .....	895	582	551	618	593	619	552	531
<b>Electric Power Sector Generation Subtotal</b> .....	<b>160,311</b>	<b>185,786</b>	<b>188,560</b>	<b>190,646</b>	<b>189,099</b>	<b>196,832</b>	<b>196,443</b>	<b>191,073</b>
Combined Heat and Power, Commercial .....	250	301	579	506	498	536	523	440
Combined Heat and Power, Industrial.....	2,850	2,968	2,819	2,969	2,830	2,894	2,508	2,351
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>3,100</b>	<b>3,270</b>	<b>3,398</b>	<b>3,474</b>	<b>3,328</b>	<b>3,429</b>	<b>3,032</b>	<b>2,791</b>
<b>Total Net Generation</b> .....	<b>163,411</b>	<b>189,055</b>	<b>191,958</b>	<b>194,120</b>	<b>192,427</b>	<b>200,261</b>	<b>199,475</b>	<b>193,864</b>
<b>Total International Imports</b> .....	-	-	2	1	-	66	53	9
<b>Total Supply</b> .....	<b>163,411</b>	<b>189,055</b>	<b>191,960</b>	<b>194,121</b>	<b>192,427</b>	<b>200,327</b>	<b>199,528</b>	<b>193,874</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	132,237	114,604	111,671	117,048	115,938	84,608	78,982	73,703
Energy-Only Providers.....	445	21,177	27,067	27,938	26,510	61,447	65,121	62,494
Facility Direct Retail Sales <sup>1</sup> .....	-	466	516	-	-	-	516	492
<b>Total Electric Industry Retail Sales</b> .....	<b>132,682</b>	<b>136,248</b>	<b>139,254</b>	<b>144,986</b>	<b>142,448</b>	<b>146,055</b>	<b>144,620</b>	<b>136,688</b>
<b>Direct Use</b> .....	<b>4,091</b>	<b>4,276</b>	<b>4,280</b>	<b>3,568</b>	<b>3,606</b>	<b>3,587<sup>R</sup></b>	<b>3,350<sup>R</sup></b>	<b>3,289</b>
<b>Total International Exports</b> .....	-	160	18	19	*	6	10	2
<b>Estimated Losses</b> .....	<b>9,618</b>	<b>8,159<sup>R</sup></b>	<b>9,550</b>	<b>11,119<sup>R</sup></b>	<b>11,159</b>	<b>10,678<sup>R</sup></b>	<b>9,444<sup>R</sup></b>	<b>7,914</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>17,020</b>	<b>40,213</b>	<b>38,857</b>	<b>34,429<sup>R</sup></b>	<b>35,213</b>	<b>40,001<sup>R</sup></b>	<b>42,104<sup>R</sup></b>	<b>45,981</b>
<b>Total Disposition</b> .....	<b>163,411<sup>R</sup></b>	<b>189,055<sup>R</sup></b>	<b>191,960<sup>R</sup></b>	<b>194,121<sup>R</sup></b>	<b>192,427<sup>R</sup></b>	<b>200,327<sup>R</sup></b>	<b>199,528<sup>R</sup></b>	<b>193,874</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.12</b>	<b>1.27</b>	<b>1.25</b>	<b>1.22</b>	<b>1.22</b>	<b>1.25</b>	<b>1.27</b>	<b>1.31</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Indiana</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>27,949</b>	<b>12</b>
Electric Utilities.....	23,631	7
Independent Power Producers & Combined Heat and Power.....	4,318	24
Net Generation (megawatthours).....	<b>116,670,280</b>	<b>11</b>
Electric Utilities.....	103,594,020	5
Independent Power Producers & Combined Heat and Power.....	13,076,260	27
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	384	4
Nitrogen Oxide.....	111	4
Carbon Dioxide.....	111,113	5
Sulfur Dioxide (lbs/MWh) .....	7.2	5
Nitrogen Oxide (lbs/MWh) .....	2.1	14
Carbon Dioxide (lbs/MWh).....	2,100	4
Total Retail Sales (megawatthours).....	<b>99,311,813</b>	<b>11</b>
Full Service Provider Sales (megawatthours) .....	99,311,813	9
Direct Use (megawatthours) .....	<b>7,502,074</b>	<b>4</b>
Average Retail Price (cents/kWh).....	<b>7.62</b>	<b>35</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Indiana</b>			
1. Gibson.....	Coal	Duke Energy Indiana Inc	3,131
2. Rockport .....	Coal	Indiana Michigan Power Co	2,610
3. R M Schahfer.....	Coal	Northern Indiana Pub Serv Co	1,780
4. AES Petersburg.....	Coal	Indianapolis Power & Light Co	1,760
5. Clifty Creek .....	Coal	Indiana-Kentucky Electric Corp	1,203
6. Cayuga .....	Coal	Duke Energy Indiana Inc	1,104
7. Harding Street.....	Coal	Indianapolis Power & Light Co	1,102
8. Lawrenceburg Energy Facility .....	Gas	AEP Generating Company	1,080
9. Tanners Creek.....	Coal	Indiana Michigan Power Co	990
10. Merom .....	Coal	Hoosier Energy R E C, Inc	989

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Indiana</b>						
1. Duke Energy Indiana Inc.....	Investor-Owned	26,215,892	8,881,263	8,310,987	9,023,642	-
2. Northern Indiana Pub Serv Co.....	Investor-Owned	14,925,097	3,241,418	3,972,884	7,690,862	19,933
3. Indiana Michigan Power Co.....	Investor-Owned	14,823,835	4,548,419	4,298,011	5,977,405	-
4. Indianapolis Power & Light Co.....	Investor-Owned	14,085,842	5,084,534	1,954,325	7,046,983	-
5. Southern Indiana Gas & Elec Co.....	Investor-Owned	5,039,673	1,451,707	1,329,024	2,258,942	-
Total Sales, Top Five Providers.....		75,090,339	23,207,341	19,865,231	31,997,834	19,933
Percent of Total State Sales.....		76	71	84	74	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Indiana</b>										
<b>Electric Utilities.....</b>	<b>20,358</b>	<b>21,016</b>	<b>21,126</b>	<b>22,017</b>	<b>22,021</b>	<b>22,012</b>	<b>23,598</b>	<b>23,631</b>	<b>92.5</b>	<b>84.6</b>
Coal.....	18,566	18,400	18,426	18,455	18,428	18,416	18,401	18,434	84.3	66.0
Petroleum.....	486	474	479	479	487	487	487	486	2.2	1.7
Natural Gas.....	1,090	2,082	2,162	3,024	3,024	3,020	4,620	4,616	5.0	16.5
Other Gases <sup>1</sup> .....	157	-	-	-	-	-	-	-	0.7	-
Hydroelectric.....	59	59	59	60	60	60	60	60	0.3	0.2
Other Renewables <sup>2</sup> .....	-	-	-	-	22	30	30	36	-	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,655</b>	<b>4,626</b>	<b>5,608</b>	<b>4,966</b>	<b>4,968</b>	<b>5,009</b>	<b>3,480</b>	<b>4,318</b>	<b>7.5</b>	<b>15.4</b>
Coal.....	642	1,416	1,290	1,290	1,290	1,344	1,320	1,323	2.9	4.7
Petroleum.....	10	10	11	11	16	16	16	17	*	0.1
Natural Gas.....	348	2,668	3,664	3,030	3,028	3,028	1,387	1,387	1.6	5.0
Other Gases <sup>1</sup> .....	637	512	624	617	626	612	618	545	2.9	2.0
Other Renewables <sup>2</sup> .....	18	19	19	19	9	9	140	1,046	0.1	3.7
<b>Total Electric Industry.....</b>	<b>22,013</b>	<b>25,641</b>	<b>26,734</b>	<b>26,984</b>	<b>26,990</b>	<b>27,021</b>	<b>27,079</b>	<b>27,949</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	19,208	19,816	19,716	19,745	19,718	19,759	19,721	19,757	87.3	70.7
Petroleum.....	496	484	490	490	503	503	503	503	2.3	1.8
Natural Gas.....	1,437	4,750	5,826	6,054	6,052	6,048	6,007	6,003	6.5	21.5
Other Gases <sup>1</sup> .....	795	512	624	617	626	612	618	545	3.6	2.0
Hydroelectric.....	59	59	59	60	60	60	60	60	0.3	0.2
Other Renewables <sup>2</sup> .....	18	19	19	19	31	39	170	1,081	0.1	3.9

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Indiana</b>										
<b>Electric Utilities.....</b>	<b>114,182,827</b>	<b>112,395,725</b>	<b>114,690,471</b>	<b>117,373,699</b>	<b>117,643,504</b>	<b>116,727,908</b>	<b>115,887,993</b>	<b>103,594,020</b>	<b>93.8</b>	<b>88.8</b>
Coal.....	112,336,883	109,839,659	112,899,892	115,413,188	116,284,183	114,974,642	114,321,205	101,000,267	92.3	86.6
Petroleum.....	813,232	407,648	393,135	244,554	134,035	155,132	165,142	132,655	0.7	0.1
Natural Gas.....	625,738	1,724,465	953,723	1,277,675	561,780	958,345	735,619	1,698,145	0.5	1.5
Hydroelectric.....	406,974	423,953	443,721	438,282	489,515	449,936	436,780	503,470	0.3	0.4
Other Renewables <sup>1</sup> .....	-	-	-	-	173,991	189,853	229,247	259,483	-	0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>7,581,674</b>	<b>12,492,493</b>	<b>13,079,925</b>	<b>12,997,874</b>	<b>12,846,284</b>	<b>13,910,091</b>	<b>13,622,301</b>	<b>13,076,260</b>	<b>6.2</b>	<b>11.2</b>
Coal.....	2,872,322	7,916,625	7,771,040	7,420,290	7,361,284	7,828,255	7,714,880	7,311,431	2.4	6.3
Petroleum.....	107,225	47,640	32,122	16,240	13,600	14,844	13,103	24,103	0.1	*
Natural Gas.....	1,483,383	1,324,971	1,484,503	2,337,630	2,120,103	3,053,480	2,900,684	2,131,513	1.2	1.8
Other Gases <sup>2</sup> .....	2,968,890	2,592,257	3,136,317	2,721,577	2,870,099	2,591,406	2,355,804	1,820,065	2.4	1.6
Other Renewables <sup>1</sup> .....	125,978	119,138	137,370	67,692	46,221	41,394	282,146	1,446,353	0.1	1.2
Other <sup>3</sup> .....	23,876	491,864	518,574	434,444	434,976	380,711	355,684	342,796	*	0.3
<b>Total Electric Industry.....</b>	<b>121,764,501</b>	<b>124,888,218</b>	<b>127,770,396</b>	<b>130,371,573</b>	<b>130,489,788</b>	<b>130,637,999</b>	<b>129,510,294</b>	<b>116,670,280</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	115,209,205	117,756,284	120,670,932	122,833,478	123,645,467	122,802,897	122,036,086	108,311,698	94.6	92.8
Petroleum.....	920,457	455,288	425,257	260,794	147,635	169,977	178,244	156,757	0.8	0.1
Natural Gas.....	2,109,121	3,049,436	2,438,226	3,615,305	2,681,883	4,011,824	3,636,303	3,829,658	1.7	3.3
Other Gases <sup>2</sup> .....	2,968,890	2,592,257	3,136,317	2,721,577	2,870,099	2,591,406	2,355,804	1,820,065	2.4	1.6
Hydroelectric.....	406,974	423,953	443,721	438,282	489,515	449,936	436,780	503,470	0.3	0.4
Other Renewables <sup>1</sup> .....	125,978	119,138	137,370	67,692	220,212	231,247	511,393	1,705,836	0.1	1.5
Other <sup>3</sup> .....	23,876	491,864	518,574	434,444	434,976	380,711	355,684	342,796	*	0.3

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Indiana</b>								
Coal (cents per million Btu) .....	111	W	W	W	W	W	193	202
Average heat value (Btu per pound).....	10,620	10,550	10,601	10,756	10,638	10,588	10,486	10,470
Average sulfur Content (percent).....	1.58	1.50	1.53	1.72	1.61	1.74	1.71	1.73
Petroleum (cents per million Btu) <sup>1</sup> .....	170	W	W	W	W	W	2,002	W
Average heat value (Btu per gallon).....	90,095	138,660	135,267	139,405	139,621	140,607	139,538	139,436
Average sulfur Content (percent).....	3.24	2.28	2.31	0.55	0.29	0.34	0.29	0.91
Natural Gas (cents per million Btu).....	289	616	621	851	781	752	948	465
Average heat value (Btu per cubic foot).....	1,026	1,014	1,011	1,018	1,043	1,026	1,015	1,013

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Indiana</b>								
<b>Sulfur Dioxide</b> .....								
Coal.....	881	741	795	801	757	661	554	383
Petroleum.....	3	1	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other <sup>1</sup> .....	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	*	-	*	*	*
Total.....	884	743	796	802	758	662	555	384
<b>Nitrogen Oxide</b> .....								
Coal.....	318	237	206	190	187	181	181	104
Petroleum.....	1	*	*	*	*	*	*	*
Natural Gas.....	7	3	2	2	2	2	2	2
Other Gases.....	6	13	5	11	11	10	5	2
Other Renewables <sup>2</sup> .....	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1	2	2 <sup>R</sup>	3	3
Other <sup>1</sup> .....	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	*	-	*	*	*
Total.....	334	257	216	204	202	195	191	111
<b>Carbon Dioxide</b> .....								
Coal.....	113,419 <sup>R</sup>	115,444 <sup>R</sup>	118,294 <sup>R</sup>	120,716 <sup>R</sup>	121,204 <sup>R</sup>	120,605 <sup>R</sup>	121,400 <sup>R</sup>	107,758
Petroleum.....	1,254 <sup>R</sup>	523	496	275	145	154	163	155
Natural Gas.....	2,875	1,782	1,670	2,374	1,877	2,473	2,747	2,860
Other Gases.....	1 <sup>R</sup>	-	-	-	-	-	-	-
Other <sup>1</sup> .....	291 <sup>R</sup>	310	308	298	300	56	350	340
Total.....	117,839 <sup>R</sup>	118,059 <sup>R</sup>	120,767 <sup>R</sup>	123,662 <sup>R</sup>	123,527 <sup>R</sup>	123,288 <sup>R</sup>	124,660 <sup>R</sup>	111,113

<sup>1</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Indiana</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	28,806	30,726	31,192	33,629	32,286	34,646	33,980	32,548	29.8	32.8
Commercial .....	20,161	22,441	22,957	23,959	23,830	24,768	24,570	23,689	20.8	23.9
Industrial .....	47,230	47,284	48,928	48,944	49,530	49,988	48,411	43,055	48.8	43.4
Other .....	539	NA	NA	NA	NA	NA	NA	NA	0.6	--
Transportation.....	NA	16	17	17	18	19	20	20	--	*
All Sectors .....	96,735	100,468	103,094	106,549	105,664	109,420	106,981	99,312	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	2,005	2,162	2,277	2,523	2,655	2,862	3,015	3,093	39.2	40.9
Commercial .....	1,220	1,374	1,448	1,573	1,719	1,806	1,921	1,971	23.8	26.0
Industrial.....	1,840	1,855	2,022	2,165	2,451	2,445	2,644	2,501	36.0	33.0
Other.....	52	NA	NA	NA	NA	NA	NA	NA	1.0	--
Transportation.....	NA	1	1	2	2	2	2	2	--	*
All Sectors .....	5,117	5,393	5,749	6,262	6,827	7,115	7,582	7,567	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.96	7.04	7.30	7.50	8.22	8.26	8.87	9.50	--	--
Commercial .....	6.05	6.12	6.31	6.57	7.21	7.29	7.82	8.32	--	--
Industrial.....	3.89	3.92	4.13	4.42	4.95	4.89	5.46	5.81	--	--
Other.....	9.70	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	8.36	8.76	9.14	9.66	10.09	9.60	9.65	--	--
All Sectors .....	5.29	5.37	5.58	5.88	6.46	6.50	7.09	7.62	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	6	72	NA	41	1	NA	NA	120
Number of Retail Customers .....	2,299,814	260,519	NA	532,979	1	NA	NA	3,093,313
Retail Sales (thousand megawatthours).....	79,597	7,419	NA	12,002	294	NA	NA	99,312
Percentage of Retail Sales .....	80.15	7.47	--	12.09	0.30	--	--	100.00
Revenue from Retail Sales (million dollars) .....	5,780	616	NA	1,170	1	NA	NA	7,567
Percentage of Revenue .....	76.39	8.14	--	15.46	0.01	--	--	100.00
Average Retail Price (cents/kWh).....	7.26	8.30	NA	9.75	0.24	NA	NA	7.62

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Indiana</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	114,183	112,396	114,690	117,374	117,644	116,728	115,888	103,594
Independent Power Producers .....	2,828	3,417	3,268	3,659	3,488	4,518	4,839	4,228
Combined Heat and Power, Electric .....	-	5,474	5,630	5,650	5,526	5,915	5,301	5,984
<b>Electric Power Sector Generation Subtotal</b> .....	<b>117,010</b>	<b>121,287</b>	<b>123,588</b>	<b>126,682</b>	<b>126,657</b>	<b>127,161</b>	<b>126,028</b>	<b>113,806</b>
Combined Heat and Power, Commercial .....	195	229	256	250	226	214	218	193
Combined Heat and Power, Industrial.....	4,559	3,372	3,926	3,440	3,607	3,263	3,265	2,671
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>4,754</b>	<b>3,601</b>	<b>4,182</b>	<b>3,690</b>	<b>3,833</b>	<b>3,477</b>	<b>3,482</b>	<b>2,864</b>
<b>Total Net Generation</b> .....	<b>121,765</b>	<b>124,888</b>	<b>127,770</b>	<b>130,372</b>	<b>130,490</b>	<b>130,638</b>	<b>129,510</b>	<b>116,670</b>
<b>Total International Imports</b> .....	-	-	-	12	30	79	23	7
<b>Total Supply</b> .....	<b>121,765</b>	<b>124,888</b>	<b>127,770</b>	<b>130,383</b>	<b>130,520</b>	<b>130,717</b>	<b>129,533</b>	<b>116,677</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	96,735	100,468	103,094	106,549	105,664	109,420	106,777	99,018
Facility Direct Retail Sales <sup>1</sup> .....	-	-	-	-	-	-	204	294
<b>Total Electric Industry Retail Sales</b> .....	<b>96,735</b>	<b>100,468</b>	<b>103,094</b>	<b>106,549</b>	<b>105,664</b>	<b>109,420</b>	<b>106,981</b>	<b>99,312</b>
<b>Direct Use</b> .....	<b>5,169</b>	<b>4,756</b>	<b>4,761</b>	<b>7,349</b>	<b>7,525</b>	<b>7,348<sup>R</sup></b>	<b>7,896<sup>R</sup></b>	<b>7,502</b>
<b>Total International Exports</b> .....	-	-	-	1	-	102	105	38
<b>Estimated Losses</b> .....	<b>7,012</b>	<b>7,711<sup>R</sup></b>	<b>7,094</b>	<b>11,087<sup>R</sup></b>	<b>6,450</b>	<b>7,900<sup>R</sup></b>	<b>6,937<sup>R</sup></b>	<b>6,634</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>12,848</b>	<b>11,954</b>	<b>12,821</b>	<b>5,397<sup>R</sup></b>	<b>10,881</b>	<b>5,947<sup>R</sup></b>	<b>7,614<sup>R</sup></b>	<b>3,191</b>
<b>Total Disposition</b> .....	<b>121,765<sup>R</sup></b>	<b>124,888<sup>R</sup></b>	<b>127,770<sup>R</sup></b>	<b>130,383<sup>R</sup></b>	<b>130,520<sup>R</sup></b>	<b>130,717<sup>R</sup></b>	<b>129,533<sup>R</sup></b>	<b>116,677</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.12</b>	<b>1.11</b>	<b>1.11</b>	<b>1.04</b>	<b>1.09</b>	<b>1.05<sup>R</sup></b>	<b>1.06<sup>R</sup></b>	<b>1.03</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Iowa</b>		
NERC Region(s).....		MRO/SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	14,579	28
Electric Utilities.....	11,479	24
Independent Power Producers & Combined Heat and Power.....	3,101	30
Net Generation (megawatthours).....	51,860,063	28
Electric Utilities.....	41,723,059	25
Independent Power Producers & Combined Heat and Power.....	10,137,004	31
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	92	21
Nitrogen Oxide.....	45	24
Carbon Dioxide.....	42,978	21
Sulfur Dioxide (lbs/MWh) .....	3.9	18
Nitrogen Oxide (lbs/MWh) .....	1.9	17
Carbon Dioxide (lbs/MWh).....	1,827	12
Total Retail Sales (megawatthours).....	43,641,195	30
Full Service Provider Sales (megawatthours) .....	43,641,195	28
Direct Use (megawatthours) .....	1,931,968	15
Average Retail Price (cents/kWh).....	7.37	40

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Iowa</b>			
1. Walter Scott Energy Center.....	Coal	MidAmerican Energy Co	1,623
2. George Neal North.....	Coal	MidAmerican Energy Co	945
3. Louisa .....	Coal	MidAmerican Energy Co	745
4. Ottumwa .....	Coal	Interstate Power and Light Co	710
5. George Neal South.....	Coal	MidAmerican Energy Co	644
6. Duane Arnold Energy Center .....	Nuclear	NextEra Energy Duane Arnold LLC	601
7. Emery Station .....	Gas	Interstate Power and Light Co	516
8. Greater Des Moines.....	Gas	MidAmerican Energy Co	493
9. Pioneer Prairie Wind Farm.....	Other Renewables	Pioneer Prairie Wind Farm I, LLC	300
10. Lansing .....	Coal	Interstate Power and Light Co	292

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. MidAmerican Energy Co .....	Investor-Owned	18,073,504	5,238,195	4,973,959	7,861,350	-
2. Interstate Power and Light Co.....	Investor-Owned	14,041,866	3,793,860	3,691,020	6,556,986	-
3. Board of Water Electric & Communications .....	Public	817,430	98,059	159,712	559,659	-
4. Eastern Iowa Light & Power Coop .....	Cooperative	601,839	285,178	45,331	271,330	-
5. North West Rural Electric Coop.....	Cooperative	594,823	245,039	346,577	3,207	-
Total Sales, Top Five Providers .....		34,129,462	9,660,331	9,216,599	15,252,532	-
Percent of Total State Sales .....		78	70	79	84	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>8,435</b>	<b>9,093</b>	<b>9,895</b>	<b>10,090</b>	<b>9,562</b>	<b>10,669</b>	<b>11,274</b>	<b>11,479</b>	<b>93.6</b>	<b>78.7</b>
Coal.....	5,702	5,666	5,741	5,705	5,666	6,535	6,528	6,529	63.3	44.8
Petroleum.....	932	912	908	936	935	930	924	921	10.3	6.3
Natural Gas.....	938	1,710	2,381	2,376	2,370	2,401	2,394	2,345	10.4	16.1
Nuclear.....	520	562	563	581	-	-	-	-	5.8	-
Hydroelectric.....	131	136	138	129	129	128	138	141	1.5	1.0
Other Renewables <sup>1</sup> .....	2	107	165	363	462	675	1,290	1,543	*	10.6
Other <sup>2</sup> .....	211	-	-	-	-	-	-	-	2.3	-
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>576</b>	<b>981</b>	<b>978</b>	<b>998</b>	<b>1,581</b>	<b>1,618</b>	<b>2,437</b>	<b>3,101</b>	<b>6.4</b>	<b>21.3</b>
Coal.....	298	420	417	432	432	432	400	579	3.3	4.0
Petroleum.....	71	89	89	92	92	93	93	93	0.8	0.6
Natural Gas.....	-	5	5	5	1	1	1	1	-	*
Nuclear.....	-	-	-	-	581	580	580	601	-	4.1
Hydroelectric.....	5	2	2	2	2	3	3	3	0.1	*
Other Renewables <sup>1</sup> .....	202	466	466	467	474	510	1,360	1,824	2.2	12.5
<b>Total Electric Industry.....</b>	<b>9,012</b>	<b>10,074</b>	<b>10,873</b>	<b>11,087</b>	<b>11,143</b>	<b>12,287</b>	<b>13,711</b>	<b>14,579</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,000	6,086	6,157	6,137	6,097	6,967	6,928	7,107	66.6	48.7
Petroleum.....	1,003	1,000	996	1,028	1,027	1,023	1,017	1,014	11.1	7.0
Natural Gas.....	938	1,715	2,386	2,381	2,371	2,402	2,395	2,346	10.4	16.1
Nuclear.....	520	562	563	581	581	580	580	601	5.8	4.1
Hydroelectric.....	136	138	140	131	131	131	142	144	1.5	1.0
Other Renewables <sup>1</sup> .....	204	573	630	830	936	1,185	2,650	3,367	2.3	23.1
Other <sup>2</sup> .....	211	-	-	-	-	-	-	-	2.3	-

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>37,032,053</b>	<b>39,485,141</b>	<b>40,578,049</b>	<b>41,559,024</b>	<b>37,494,674</b>	<b>42,383,472</b>	<b>44,751,377</b>	<b>41,723,059</b>	<b>95.4</b>	<b>80.5</b>
Coal.....	31,946,304	34,288,694	33,757,265	32,807,567	32,855,636	36,470,450	39,231,635	35,964,155	82.3	69.3
Petroleum.....	128,220	91,173	99,255	140,559	197,700	296,436	152,372	78,553	0.3	0.2
Natural Gas.....	364,434	279,206	814,295	2,473,558	2,393,816	3,085,253	2,158,823	1,091,328	0.9	2.1
Nuclear.....	3,640,258	3,987,657	4,928,948	4,538,313	-	-	-	-	9.4	-
Hydroelectric.....	931,073	780,322	936,999	950,094	900,488	961,876	815,654	963,426	2.4	1.9
Other Renewables <sup>1</sup> .....	21,764	48,464	29,404	637,360	1,136,608	1,557,596	2,392,880	3,625,135	0.1	7.0
Other <sup>2</sup> .....	-	9,625	11,883	11,573	10,426	11,861	13	463	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,769,428</b>	<b>2,631,051</b>	<b>2,670,140</b>	<b>2,597,136</b>	<b>7,988,788</b>	<b>7,405,745</b>	<b>8,335,409</b>	<b>10,137,004</b>	<b>4.6</b>	<b>19.5</b>
Coal.....	1,207,932	1,531,251	1,514,931	1,444,767	1,549,558	1,515,117	1,178,472	1,387,281	3.1	2.7
Petroleum.....	8,233	10,162	9,365	9,009	10,621	15,479	8,755	6,698	*	*
Natural Gas.....	142,941	33,690	10,411	7,312	6,198	5,626	4,368	92,890	0.4	0.2
Nuclear.....	-	-	-	-	5,095,442	4,518,875	5,282,202	4,678,931	-	9.0
Hydroelectric.....	14,549	8,271	8,960	9,432	8,860	470	3,393	7,739	*	*
Other Renewables <sup>1</sup> .....	395,773	1,047,676	1,126,473	1,126,617	1,318,109	1,350,179	1,858,219	3,963,466	1.0	7.6
<b>Total Electric Industry.....</b>	<b>38,801,481</b>	<b>42,116,192</b>	<b>43,248,189</b>	<b>44,156,160</b>	<b>45,483,462</b>	<b>49,789,217</b>	<b>53,086,786</b>	<b>51,860,063</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	33,154,236	35,819,945	35,272,196	34,252,334	34,405,194	37,985,566	40,410,107	37,351,436	85.4	72.0
Petroleum.....	136,453	101,335	108,620	149,568	208,321	311,915	161,127	85,251	0.4	0.2
Natural Gas.....	507,375	312,896	824,706	2,480,870	2,400,014	3,090,879	2,163,191	1,184,217	1.3	2.3
Nuclear.....	3,640,258	3,987,657	4,928,948	4,538,313	5,095,442	4,518,875	5,282,202	4,678,931	9.4	9.0
Hydroelectric.....	945,622	788,593	945,959	959,526	909,348	962,346	819,047	971,165	2.4	1.9
Other Renewables <sup>1</sup> .....	417,537	1,096,140	1,155,877	1,763,976	2,454,717	2,907,775	4,251,099	7,588,601	1.1	14.6
Other <sup>2</sup> .....	-	9,625	11,883	11,573	10,426	11,861	13	463	-	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Iowa</b>								
Coal (cents per million Btu) .....	82	W	W	W	W	W	127	134
Average heat value (Btu per pound).....	8,581	8,705	8,665	8,668	8,612	8,619	8,605	8,657
Average sulfur Content (percent).....	0.40	0.43	0.44	0.42	0.44	0.41	0.41	0.42
Petroleum (cents per million Btu) <sup>1</sup> .....	399	635	459	1,077	474	603	1,023	W
Average heat value (Btu per gallon).....	139,340	139,171	137,162	139,200	134,952	135,219	133,214	136,726
Average sulfur Content (percent).....	0.08	0.03	2.08	0.28	4.09	4.06	3.44	1.55
Natural Gas (cents per million Btu).....	314	593	712	878	778	765	W	W
Average heat value (Btu per cubic foot).....	1,004	1,004	1,003	1,007	1,009	1,011	1,012	1,009

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Iowa</b>								
<b>Sulfur Dioxide</b> .....								
Coal.....	155	138	135	135	131	134	149	90
Petroleum.....	5	1	1	1	1	1	5	2
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	_R	*R	_R	_R	_R	_R	*	*
Other <sup>2</sup> .....	*	*	*	*	*	*	-	-
Total.....	160	139	136	136	132	136	154	92
<b>Nitrogen Oxide</b> .....								
Coal.....	82	76	76	71	61	55	68	43
Petroleum.....	1	1	1	1	1	1	1	*
Natural Gas.....	2	1	1	1	1	1	*	1
Other Renewables <sup>1</sup> .....	1	1	1	1	1	2	2	2
Other <sup>2</sup> .....	*	*	*	*	*	*	-	-
Total.....	86	79	79	75	64	58	71	45
<b>Carbon Dioxide</b> .....								
Coal.....	38,759 <sup>R</sup>	40,880 <sup>R</sup>	41,261 <sup>R</sup>	39,528 <sup>R</sup>	39,916 <sup>R</sup>	42,783 <sup>R</sup>	44,983 <sup>R</sup>	42,155
Petroleum.....	145	123	139	178	257	373	192 <sup>R</sup>	109
Natural Gas.....	849	297	467	1,150	1,060	1,409	962	713
Other <sup>2</sup> .....	4	15	17	12	11	14	*	-
Total.....	39,756 <sup>R</sup>	41,314 <sup>R</sup>	41,883 <sup>R</sup>	40,869 <sup>R</sup>	41,245 <sup>R</sup>	44,579 <sup>R</sup>	46,137 <sup>R</sup>	42,978

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Iowa</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	11,867	12,768	12,625	13,571	13,344	14,060	14,073	13,723	31.2	31.4
Commercial .....	8,269	11,637	10,840	11,271	11,660	12,084	12,178	11,706	21.7	26.8
Industrial .....	16,499	16,803	17,437	17,915	18,331	19,125	19,237	18,211	43.4	41.7
Other .....	1,399	NA	NA	NA	NA	NA	NA	NA	3.7	--
Transportation.....	NA	NA	NA	NA	1	NA	NA	NA	--	--
All Sectors .....	38,034	41,207	40,903	42,757	43,337	45,270	45,488	43,641	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	991	1,094	1,132	1,258	1,285	1,328	1,336	1,371	44.0	42.6
Commercial .....	533	726	731	783	850	859	875	884	23.7	27.5
Industrial.....	642	699	756	818	902	906	925	961	28.5	29.9
Other .....	88	NA	NA	NA	NA	NA	NA	NA	3.9	--
Transportation.....	NA	NA	NA	NA	*	NA	NA	NA	--	--
All Sectors .....	2,255	2,519	2,619	2,859	3,038	3,093	3,135	3,215	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.35	8.57	8.96	9.27	9.63	9.45	9.49	9.99	--	--
Commercial .....	6.45	6.24	6.75	6.95	7.29	7.11	7.18	7.55	--	--
Industrial.....	3.89	4.16	4.33	4.56	4.92	4.74	4.81	5.27	--	--
Other .....	6.30	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	NA	NA	7.05	NA	NA	NA	--	--
All Sectors .....	5.93	6.11	6.40	6.69	7.01	6.83	6.89	7.37	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	3	137	NA	44	1	NA	NA	185
Number of Retail Customers .....	1,117,735	208,478	NA	220,428	142	NA	NA	1,546,783
Retail Sales (thousand megawatthours).....	32,196	5,073	NA	6,063	310	NA	NA	43,641
Percentage of Retail Sales .....	73.77	11.62	--	13.89	0.71	--	--	100.00
Revenue from Retail Sales (million dollars) .....	2,263	386	NA	547	19	NA	NA	3,215
Percentage of Revenue .....	70.39	12.00	--	17.02	0.60	--	--	100.00
Average Retail Price (cents/kWh).....	7.03	7.60	NA	9.03	6.19	NA	NA	7.37

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Iowa</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	37,032	39,485	40,578	41,559	37,495	42,383	44,751	41,723
Independent Power Producers .....	344	1,033	1,107	1,103	6,389	5,847	7,113	8,604
Combined Heat and Power, Electric .....	157	-	-	-	-	-	-	-
<b>Electric Power Sector Generation Subtotal</b> .....	<b>37,533</b>	<b>40,518</b>	<b>41,685</b>	<b>42,662</b>	<b>43,884</b>	<b>48,231</b>	<b>51,864</b>	<b>50,327</b>
Combined Heat and Power, Commercial .....	114	261	270	278	278	256	244	233
Combined Heat and Power, Industrial.....	1,154	1,337	1,294	1,216	1,321	1,303	979	1,299
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>1,268</b>	<b>1,598</b>	<b>1,564</b>	<b>1,494</b>	<b>1,599</b>	<b>1,559</b>	<b>1,223</b>	<b>1,533</b>
<b>Total Net Generation</b> .....	<b>38,801</b>	<b>42,116</b>	<b>43,248</b>	<b>44,156</b>	<b>45,483</b>	<b>49,789</b>	<b>53,087</b>	<b>51,860</b>
<b>Total International Imports</b> .....	<b>68</b>	<b>-</b>	<b>*</b>	<b>*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Supply</b> .....	<b>38,869</b>	<b>42,116</b>	<b>43,248</b>	<b>44,156</b>	<b>45,483</b>	<b>49,789</b>	<b>53,087</b>	<b>51,860</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	38,034	40,969	40,616	42,757	43,037	44,939	45,162	43,332
Facility Direct Retail Sales <sup>1</sup> .....	-	238	287	-	300	331	326	310
<b>Total Electric Industry Retail Sales</b> .....	<b>38,034</b>	<b>41,207</b>	<b>40,903</b>	<b>42,757</b>	<b>43,337</b>	<b>45,270</b>	<b>45,488</b>	<b>43,641</b>
<b>Direct Use</b> .....	<b>1,389</b>	<b>1,351</b>	<b>1,352</b>	<b>1,313</b>	<b>1,595</b>	<b>1,318<sup>R</sup></b>	<b>1,174<sup>R</sup></b>	<b>1,932</b>
<b>Total International Exports</b> .....	<b>40</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>-</b>	<b>-</b>
<b>Estimated Losses</b> .....	<b>2,757</b>	<b>2,372</b>	<b>2,672</b>	<b>2,438<sup>R</sup></b>	<b>2,902</b>	<b>3,080<sup>R</sup></b>	<b>2,558<sup>R</sup></b>	<b>2,432</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-3,351</b>	<b>-2,815</b>	<b>-1,679</b>	<b>-2,352</b>	<b>-2,351</b>	<b>122<sup>R</sup></b>	<b>3,867<sup>R</sup></b>	<b>3,855</b>
<b>Total Disposition</b> .....	<b>38,869<sup>R</sup></b>	<b>42,116<sup>R</sup></b>	<b>43,248<sup>R</sup></b>	<b>44,156<sup>R</sup></b>	<b>45,483<sup>R</sup></b>	<b>49,789<sup>R</sup></b>	<b>53,087<sup>R</sup></b>	<b>51,860</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.92</b>	<b>0.94</b>	<b>0.96</b>	<b>0.95</b>	<b>0.95</b>	<b>1.00</b>	<b>1.08</b>	<b>1.08</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Kansas</b>		
NERC Region(s).....		MRO/SPP
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	12,529	32
Electric Utilities.....	11,733	21
Independent Power Producers & Combined Heat and Power.....	796	44
Net Generation (megawatthours).....	46,677,308	31
Electric Utilities.....	44,443,224	20
Independent Power Producers & Combined Heat and Power.....	2,234,084	45
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	47	28
Nitrogen Oxide.....	46	23
Carbon Dioxide.....	36,207	26
Sulfur Dioxide (lbs/MWh) .....	2.2	33
Nitrogen Oxide (lbs/MWh) .....	2.2	12
Carbon Dioxide (lbs/MWh).....	1,710	14
Total Retail Sales (megawatthours).....	38,243,344	32
Full Service Provider Sales (megawatthours) .....	38,243,344	30
Direct Use (megawatthours) .....	-	50
Average Retail Price (cents/kWh).....	7.98	34

MWh = Megawatthours.

kWh = Kilowatthours.

- (dash) = Data not available.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Kansas</b>			
1. Jeffrey Energy Center.....	Coal	Westar Energy Inc	2,164
2. La Cygne.....	Coal	Kansas City Power & Light Co	1,418
3. Wolf Creek Generating Station .....	Nuclear	Wolf Creek Nuclear Optg Corp	1,160
4. Gordon Evans Energy Center.....	Gas	Kansas Gas & Electric Co	835
5. Emporia Energy Center .....	Gas	Westar Energy Inc	666
6. Lawrence Energy Center .....	Coal	Westar Energy Inc	530
7. Hutchinson Energy Center .....	Gas	Westar Energy Inc	411
8. Holcomb .....	Coal	Sunflower Electric Power Corp	362
9. West Gardner.....	Gas	Kansas City Power & Light Co	308
10. Nearman Creek.....	Coal	Kansas City City of	305

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Kansas</b>						
1. Kansas Gas & Electric Co.....	Investor-Owned	9,438,316	3,065,975	2,987,653	3,384,688	-
2. Westar Energy Inc.....	Investor-Owned	9,433,354	3,337,853	4,335,148	1,760,353	-
3. Kansas City Power & Light Co.....	Investor-Owned	6,221,478	2,713,466	3,151,948	356,064	-
4. Kansas City City of.....	Public	2,177,970	536,550	952,098	689,322	-
5. Midwest Energy Inc.....	Cooperative	1,280,910	299,864	354,111	626,935	-
Total Sales, Top Five Providers.....		28,552,028	9,953,708	11,780,958	6,817,362	-
Percent of Total State Sales.....		75	76	79	68	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Kansas</b>										
<b>Electric Utilities.....</b>	<b>10,020</b>	<b>10,731</b>	<b>10,705</b>	<b>10,734</b>	<b>10,829</b>	<b>10,944</b>	<b>11,246</b>	<b>11,733</b>	<b>99.5</b>	<b>93.6</b>
Coal.....	5,325	5,265	5,222	5,250	5,203	5,208	5,190	5,180	52.9	41.3
Petroleum.....	520	564	587	583	565	569	564	564	5.2	4.5
Natural Gas.....	3,005	3,735	3,729	3,734	3,793	3,900	4,232	4,580	29.8	36.6
Nuclear.....	1,170	1,165	1,166	1,166	1,166	1,166	1,160	1,160	11.6	9.3
Other Renewables <sup>1</sup> .....	-	2	1	1	101	101	100	249	-	2.0
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>47</b>	<b>145</b>	<b>145</b>	<b>295</b>	<b>295</b>	<b>297</b>	<b>746</b>	<b>796</b>	<b>0.5</b>	<b>6.4</b>
Petroleum.....	4	-	-	-	-	-	-	-	*	-
Natural Gas.....	40	31	31	31	31	33	31	31	0.4	0.2
Hydroelectric.....	3	3	3	3	3	3	3	3	*	*
Other Renewables <sup>1</sup> .....	-	112	112	262	262	262	712	762	-	6.1
<b>Total Electric Industry.....</b>	<b>10,067</b>	<b>10,876</b>	<b>10,850</b>	<b>11,029</b>	<b>11,124</b>	<b>11,241</b>	<b>11,992</b>	<b>12,529</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,325	5,265	5,222	5,250	5,203	5,208	5,190	5,180	52.9	41.3
Petroleum.....	524	564	587	583	565	569	564	564	5.2	4.5
Natural Gas.....	3,045	3,766	3,759	3,764	3,824	3,932	4,262	4,611	30.2	36.8
Nuclear.....	1,170	1,165	1,166	1,166	1,166	1,166	1,160	1,160	11.6	9.3
Hydroelectric.....	3	3	3	3	3	3	3	3	*	*
Other Renewables <sup>1</sup> .....	-	114	113	263	363	363	812	1,011	-	8.1

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Kansas</b>										
<b>Electric Utilities.....</b>	<b>42,002,924</b>	<b>46,155,505</b>	<b>46,409,328</b>	<b>45,421,033</b>	<b>44,621,389</b>	<b>49,256,450</b>	<b>45,275,773</b>	<b>44,443,224</b>	<b>99.8</b>	<b>95.2</b>
Coal.....	29,649,100	35,109,616	34,593,346	34,480,731	33,281,380	36,250,263	34,003,262	32,243,043	70.5	69.1
Petroleum.....	311,010	963,751	853,742	986,378	51,142	207,149	130,190	120,761	0.7	0.3
Natural Gas.....	2,886,195	1,190,819	826,668	1,132,201	1,832,168	2,124,086	2,229,671	2,668,891	6.9	5.7
Nuclear.....	9,156,619	8,889,667	10,132,736	8,820,945	9,350,269	10,369,136	8,497,160	8,768,548	21.8	18.8
Other Renewables <sup>1</sup> .....	-	1,651	2,835	778	106,430	305,817	415,490	641,981	-	1.4
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>67,306</b>	<b>412,056</b>	<b>373,331</b>	<b>441,663</b>	<b>902,347</b>	<b>865,745</b>	<b>1,354,548</b>	<b>2,234,084</b>	<b>0.2</b>	<b>4.8</b>
Petroleum.....	335	381	21	*	-	-	-	-	*	-
Natural Gas.....	54,604	34,951	4,966	5,281	7,238	8,523	52	-	0.1	-
Hydroelectric.....	12,367	12,435	12,547	11,337	9,649	10,501	10,574	12,798	*	*
Other Renewables <sup>1</sup> .....	-	364,288	355,797	425,045	885,460	846,721	1,343,922	2,221,286	-	4.8
<b>Total Electric Industry.....</b>	<b>42,070,230</b>	<b>46,567,561</b>	<b>46,782,659</b>	<b>45,862,696</b>	<b>45,523,736</b>	<b>50,122,196</b>	<b>46,630,321</b>	<b>46,677,308</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	29,649,100	35,109,616	34,593,346	34,480,731	33,281,380	36,250,263	34,003,262	32,243,043	70.5	69.1
Petroleum.....	311,345	964,132	853,763	986,378	51,142	207,149	130,190	120,761	0.7	0.3
Natural Gas.....	2,940,799	1,225,770	831,634	1,137,482	1,839,406	2,132,609	2,229,723	2,668,891	7.0	5.7
Nuclear.....	9,156,619	8,889,667	10,132,736	8,820,945	9,350,269	10,369,136	8,497,160	8,768,548	21.8	18.8
Hydroelectric.....	12,367	12,435	12,547	11,337	9,649	10,501	10,574	12,798	*	*
Other Renewables <sup>1</sup> .....	-	365,939	358,632	425,823	991,890	1,152,538	1,759,412	2,863,267	-	6.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Kansas</b>								
Coal (cents per million Btu) .....	95	101	103	112	119	123	141	143
Average heat value (Btu per pound).....	8,628	8,619	8,626	8,569	8,607	8,582	8,545	8,526
Average sulfur Content (percent).....	0.43	0.48	0.44	0.44	0.45	0.41	0.39	0.40
Petroleum (cents per million Btu) <sup>1</sup> .....	319	362	407	556	485	340	711	W
Average heat value (Btu per gallon).....	147,607	156,948	156,855	155,174	144,821	137,017	136,552	137,645
Average sulfur Content (percent).....	0.88	1.62	1.66	1.81	2.79	3.85	3.64	3.64
Natural Gas (cents per million Btu).....	234	530	546	770	624	619	W	407
Average heat value (Btu per cubic foot).....	1,010	1,014	1,008	1,010	1,014	1,020	1,015	1,015

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Kansas</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	105	119	104	112	98	102	85	46
Petroleum.....	2	9	8	12	3	3	2	1
Natural Gas.....	*	*	*	*	*	*	*	*
Total.....	107	128	112	124	101	105	87	47
<b>Nitrogen Oxide .....</b>								
Coal.....	74	82	81	77	69	60	45	40
Petroleum.....	4	3	2	3	2	2	1	*
Natural Gas.....	6	4	2	3	3	2	4	5
Total.....	84	88	85	82	74	64	49	46
<b>Carbon Dioxide .....</b>								
Coal.....	31,627 <sup>R</sup>	37,435 <sup>R</sup>	36,936 <sup>R</sup>	36,394 <sup>R</sup>	34,806 <sup>R</sup>	37,925 <sup>R</sup>	35,718 <sup>R</sup>	34,334
Petroleum.....	302	852	825	949	52	260	158	148
Natural Gas.....	2,040	841	600	929	1,376	1,392	1,438	1,725
Total.....	33,969 <sup>R</sup>	39,128 <sup>R</sup>	38,361 <sup>R</sup>	38,271 <sup>R</sup>	36,234 <sup>R</sup>	39,577 <sup>R</sup>	37,315 <sup>R</sup>	36,207

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Kansas</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	11,347	12,602	12,417	13,406	13,503	13,806	13,392	13,149	33.6	34.4
Commercial .....	11,822	13,751	13,831	14,453	14,786	15,474	15,358	15,007	35.0	39.2
Industrial .....	10,215	10,382	10,879	11,165	11,462	10,885	10,766	10,087	30.2	26.4
Other .....	436	NA	NA	NA	NA	NA	NA	NA	1.3	--
All Sectors .....	33,820	36,735	37,127	39,024	39,751	40,166	39,516	38,243	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	867	971	962	1,059	1,114	1,131	1,190	1,254	41.3	41.1
Commercial .....	739	882	893	954	1,030	1,056	1,140	1,182	35.1	38.7
Industrial.....	457	479	510	542	596	558	613	616	21.7	20.2
Other.....	39	NA	NA	NA	NA	NA	NA	NA	1.8	--
All Sectors .....	2,102	2,333	2,364	2,555	2,740	2,746	2,943	3,051	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.64	7.71	7.74	7.90	8.25	8.19	8.88	9.53	--	--
Commercial .....	6.25	6.42	6.45	6.60	6.96	6.83	7.42	7.87	--	--
Industrial.....	4.47	4.61	4.69	4.85	5.20	5.13	5.69	6.10	--	--
Other.....	8.91	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	6.22	6.35	6.37	6.55	6.89	6.84	7.45	7.98	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Kansas</b>								
Number of Entities.....	4	118	1	29	1	NA	NA	153
Number of Retail Customers .....	932,533	234,619	7	284,029	7	NA	NA	1,451,195
Retail Sales (thousand megawatthours).....	25,326	6,596	24	6,167	131	NA	NA	38,243
Percentage of Retail Sales .....	66.22	17.25	0.06	16.13	0.34	--	--	100.00
Revenue from Retail Sales (million dollars).....	1,931	532	1	579	9	NA	NA	3,051
Percentage of Revenue .....	63.29	17.43	0.03	18.97	0.28	--	--	100.00
Average Retail Price (cents/kWh).....	7.62	8.06	3.60	9.38	6.61	NA	NA	7.98

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Kansas</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	42,003	46,156	46,409	45,421	44,621	49,256	45,276	44,443
Independent Power Producers .....	12	377	368	436	895	857	1,354	2,234
<b>Electric Power Sector Generation Subtotal</b> .....	<b>42,015</b>	<b>46,532</b>	<b>46,778</b>	<b>45,857</b>	<b>45,516</b>	<b>50,114</b>	<b>46,630</b>	<b>46,677</b>
Combined Heat and Power, Commercial .....	2	1	1	*	-	-	-	-
Combined Heat and Power, Industrial.....	53	34	4	5	7	9	*	-
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>55</b>	<b>35</b>	<b>5</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>*</b>	<b>-</b>
<b>Total Net Generation</b> .....	<b>42,070</b>	<b>46,568</b>	<b>46,783</b>	<b>45,863</b>	<b>45,524</b>	<b>50,122</b>	<b>46,630</b>	<b>46,677</b>
<b>Total International Imports</b> .....	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>*</b>	<b>-</b>	<b>-</b>
<b>Total Supply</b> .....	<b>42,071</b>	<b>46,568</b>	<b>46,783</b>	<b>45,863</b>	<b>45,524</b>	<b>50,122</b>	<b>46,630</b>	<b>46,677</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	33,820	36,735	37,022	38,921	39,646	40,031	39,382	38,112
Facility Direct Retail Sales <sup>1</sup> .....	-	-	104	103	105	135	134	131
<b>Total Electric Industry Retail Sales</b> .....	<b>33,820</b>	<b>36,735</b>	<b>37,127</b>	<b>39,024</b>	<b>39,751</b>	<b>40,166</b>	<b>39,516</b>	<b>38,243</b>
<b>Direct Use</b> .....	<b>56</b>	<b>62</b>	<b>62</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>*</b>	<b>-</b>
<b>Total International Exports</b> .....	<b>8</b>	<b>-</b>	<b>*</b>	<b>*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>*</b>
<b>Estimated Losses</b> .....	<b>2,452</b>	<b>3,084</b>	<b>3,457</b>	<b>4,280<sup>R</sup></b>	<b>3,459</b>	<b>4,167<sup>R</sup></b>	<b>4,014<sup>R</sup></b>	<b>3,813</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>5,736</b>	<b>6,686<sup>R</sup></b>	<b>6,137</b>	<b>2,553<sup>R</sup></b>	<b>2,306</b>	<b>5,781<sup>R</sup></b>	<b>3,099<sup>R</sup></b>	<b>4,621</b>
<b>Total Disposition</b> .....	<b>42,071<sup>R</sup></b>	<b>46,568<sup>R</sup></b>	<b>46,783<sup>R</sup></b>	<b>45,863<sup>R</sup></b>	<b>45,524<sup>R</sup></b>	<b>50,122<sup>R</sup></b>	<b>46,630<sup>R</sup></b>	<b>46,677</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.16</b>	<b>1.17</b>	<b>1.15</b>	<b>1.06</b>	<b>1.05</b>	<b>1.13<sup>R</sup></b>	<b>1.07<sup>R</sup></b>	<b>1.11</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Kentucky</b>		
NERC Region(s).....		RFC/SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	20,160	21
Electric Utilities.....	18,763	16
Independent Power Producers & Combined Heat and Power.....	1,397	38
Net Generation (megawatthours).....	90,630,427	17
Electric Utilities.....	90,029,962	10
Independent Power Producers & Combined Heat and Power.....	600,465	47
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	232	10
Nitrogen Oxide .....	74	9
Carbon Dioxide.....	86,155	7
Sulfur Dioxide (lbs/MWh) .....	5.7	10
Nitrogen Oxide (lbs/MWh) .....	1.8	18
Carbon Dioxide (lbs/MWh).....	2,096	5
Total Retail Sales (megawatthours).....	88,809,175	15
Full Service Provider Sales (megawatthours) .....	88,809,175	12
Direct Use (megawatthours) .....	381,874	35
Average Retail Price (cents/kWh).....	6.52	49

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Kentucky</b>			
1. Paradise.....	Coal	Tennessee Valley Authority	2,201
2. Ghent .....	Coal	Kentucky Utilities Co	1,918
3. E W Brown.....	Coal	Kentucky Utilities Co	1,546
4. Mill Creek.....	Coal	Louisville Gas & Electric Co	1,472
5. Trimble County.....	Coal	Louisville Gas & Electric Co	1,471
6. H L Spurlock .....	Coal	East Kentucky Power Coop, Inc	1,346
7. Shawnee.....	Coal	Tennessee Valley Authority	1,330
8. Big Sandy .....	Coal	Kentucky Power Co	1,060
9. Riverside Generating LLC .....	Gas	Riverside Generating Co LLC	825
10. Marshall Energy Facility .....	Gas	Tennessee Valley Authority	621

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Kentucky</b>						
1. Kentucky Utilities Co.....	Investor-Owned	17,501,644	6,164,921	5,881,912	5,454,811	-
2. Tennessee Valley Authority .....	Federal	15,818,306	-	-	15,818,306	-
3. Louisville Gas & Electric Co .....	Investor-Owned	11,405,157	4,095,806	4,896,932	2,412,419	-
4. Kenergy Corp .....	Cooperative	8,723,373	711,959	303,232	7,708,182	-
5. Kentucky Power Co.....	Investor-Owned	7,068,456	2,425,612	1,436,532	3,206,312	-
Total Sales, Top Five Providers .....		60,516,936	13,398,298	12,518,608	34,600,030	-
Percent of Total State Sales .....		68	51	67	79	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Kentucky</b>										
<b>Electric Utilities.....</b>	<b>14,708</b>	<b>15,349</b>	<b>15,860</b>	<b>16,234</b>	<b>16,878</b>	<b>16,819</b>	<b>16,759</b>	<b>18,763</b>	<b>88.4</b>	<b>93.1</b>
Coal.....	12,572	12,435	12,441	12,621	12,670	12,682	12,616	14,553	75.6	72.2
Petroleum.....	122	108	72	72	70	12	12	77	0.7	0.4
Natural Gas .....	1,206	1,988	2,521	2,714	3,313	3,295	3,295	3,295	7.2	16.3
Hydroelectric .....	808	818	817	817	813	815	822	822	4.9	4.1
Other Renewables <sup>1</sup> .....	-	-	9	10	12	15	15	17	-	0.1
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,932</b>	<b>3,719</b>	<b>3,767</b>	<b>3,767</b>	<b>3,169</b>	<b>3,150</b>	<b>3,143</b>	<b>1,397</b>	<b>11.6</b>	<b>6.9</b>
Coal.....	1,844	1,716	1,716	1,716	1,716	1,692	1,686	-	11.1	-
Petroleum.....	85	65	65	65	65	65	65	-	0.5	-
Natural Gas .....	-	1,887	1,943	1,943	1,343	1,343	1,343	1,343	-	6.7
Hydroelectric .....	-	-	-	-	2	2	2	2	-	*
Other Renewables <sup>1</sup> .....	4	51	43	43	43	47	47	52	*	0.3
<b>Total Electric Industry.....</b>	<b>16,640</b>	<b>19,068</b>	<b>19,627</b>	<b>20,001</b>	<b>20,047</b>	<b>19,968</b>	<b>19,902</b>	<b>20,160</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	14,416	14,151	14,157	14,337	14,386	14,374	14,301	14,553	86.6	72.2
Petroleum.....	207	173	137	137	135	77	77	77	1.2	0.4
Natural Gas .....	1,206	3,875	4,464	4,657	4,656	4,638	4,638	4,638	7.2	23.0
Hydroelectric .....	808	818	817	817	815	817	824	824	4.9	4.1
Other Renewables <sup>1</sup> .....	4	51	52	53	55	63	63	69	*	0.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Kentucky</b>										
<b>Electric Utilities.....</b>	<b>81,658,150</b>	<b>80,696,982</b>	<b>82,921,402</b>	<b>85,679,912</b>	<b>86,816,479</b>	<b>85,259,079</b>	<b>86,012,151</b>	<b>90,029,962</b>	<b>88.1</b>	<b>99.3</b>
Coal.....	78,544,604	76,367,048	78,574,428	81,188,722	83,068,626	81,877,334	83,197,690	84,037,596	84.7	92.7
Petroleum.....	103,755	130,280	93,651	96,557	79,520	96,733	106,853	2,016,282	0.1	2.2
Natural Gas.....	453,219	229,930	398,814	1,349,378	963,428	1,504,922	677,551	554,684	0.5	0.6
Other Gases <sup>1</sup> .....	-	-	1,701	4,991	3,836	4,745	3,835	4,314	-	*
Hydroelectric.....	2,556,572	3,948,052	3,780,251	2,961,193	2,591,701	1,666,237	1,912,432	3,308,064	2.8	3.7
Other Renewables <sup>2</sup> .....	-	-	57,029	62,098	87,713	93,440	105,094	96,393	-	0.1
Other <sup>3</sup> .....	-	21,672	15,528	16,973	21,655	15,669	8,697	12,629	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>11,023,758</b>	<b>11,021,838</b>	<b>11,608,545</b>	<b>12,142,507</b>	<b>11,975,535</b>	<b>11,966,240</b>	<b>11,851,189</b>	<b>600,465</b>	<b>11.9</b>	<b>0.7</b>
Coal.....	10,978,329	7,693,492	7,546,083	7,894,391	8,129,862	8,605,726	8,422,898	-	11.8	-
Petroleum.....	23,729	2,814,631	3,527,448	3,584,128	3,261,378	2,694,566	2,767,586	-	*	-
Natural Gas.....	9,291	214,475	181,026	304,674	213,210	291,416	301,141	323,746	*	0.4
Hydroelectric.....	-	-	-	-	-	2,350	5,038	9,577	-	*
Other Renewables <sup>2</sup> .....	12,409	299,240	353,989	359,314	371,085	372,183	354,525	267,141	*	0.3
<b>Total Electric Industry.....</b>	<b>92,681,908</b>	<b>91,718,820</b>	<b>94,529,947</b>	<b>97,822,419</b>	<b>98,792,014</b>	<b>97,225,319</b>	<b>97,863,340</b>	<b>90,630,427</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	89,522,933	84,060,540	86,120,511	89,083,113	91,198,488	90,483,059	91,620,588	84,037,596	96.6	92.7
Petroleum.....	127,484	2,944,911	3,621,099	3,680,685	3,340,898	2,791,299	2,874,440	2,016,282	0.1	2.2
Natural Gas.....	462,510	444,405	579,840	1,654,052	1,176,638	1,796,337	978,692	878,430	0.5	1.0
Other Gases <sup>1</sup> .....	-	-	1,701	4,991	3,836	4,745	3,835	4,314	-	*
Hydroelectric.....	2,556,572	3,948,052	3,780,251	2,961,193	2,591,701	1,668,587	1,917,470	3,317,641	2.8	3.7
Other Renewables <sup>2</sup> .....	12,409	299,240	411,018	421,412	458,798	465,623	459,619	363,534	*	0.4
Other <sup>3</sup> .....	-	21,672	15,528	16,973	21,655	15,669	8,697	12,629	-	*

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Kentucky</b>								
Coal (cents per million Btu) .....	106	123	137	W	170	175	214	217
Average heat value (Btu per pound).....	11,582	11,498	11,550	11,620	11,568	11,661	11,534	11,472
Average sulfur Content (percent).....	2.27	2.12	2.09	2.21	2.23	2.22	2.33	2.54
Petroleum (cents per million Btu) <sup>1</sup> .....	275	W	W	117	127	W	203	168
Average heat value (Btu per gallon).....	110,888	132,664	131,967	132,710	132,305	134,155	134,110	134,810
Average sulfur Content (percent).....	2.44	3.90	4.79	5.11	5.23	5.23	5.24	5.07
Natural Gas (cents per million Btu).....	340	658	W	949	W	W	W	624
Average heat value (Btu per cubic foot).....	1,025	1,017	1,017	1,026	1,025	1,025	1,023	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Kentucky</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	597	474	460	445	380	336	307	225
Petroleum.....	*	7	5	9	8	8	7	4
Natural Gas.....	*	-	-	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	3	3	3	3	3	3	4
Other <sup>2</sup> .....	-	*	*	*	*	*	*	*
Total.....	598	483	469	457	391	348	317	232
<b>Nitrogen Oxide .....</b>								
Coal.....	277	159	143	140	146	148	140	70
Petroleum.....	1	9	6	8	8	8	3	1
Natural Gas.....	1	*	1	3	2	2	1	1
Other Gases.....	-	*	-	-	-	-	*	*
Other Renewables <sup>1</sup> .....	*	1	2	2	2	2	2	2
Other <sup>2</sup> .....	-	*	*	*	*	*	*	*
Total.....	279	169	151	152	158	161	146	74
<b>Carbon Dioxide .....</b>								
Coal.....	85,371 <sup>R</sup>	82,427 <sup>R</sup>	83,548 <sup>R</sup>	86,004 <sup>R</sup>	89,532 <sup>R</sup>	88,931 <sup>R</sup>	90,051 <sup>R</sup>	83,213
Petroleum.....	113	3,445	4,166 <sup>R</sup>	4,173 <sup>R</sup>	3,815 <sup>R</sup>	3,158 <sup>R</sup>	3,241 <sup>R</sup>	2,277
Natural Gas.....	309	574	474	1,157	869	1,257	726	651
Other Gases.....	-	-	1 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3
Other <sup>2</sup> .....	-	27	20	22	20	15	8	12
Total.....	85,793 <sup>R</sup>	86,473 <sup>R</sup>	88,209 <sup>R</sup>	91,359 <sup>R</sup>	94,238 <sup>R</sup>	93,365 <sup>R</sup>	94,028 <sup>R</sup>	86,155

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO<sub>2</sub> emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Kentucky</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	22,548	24,704	25,187	26,947	25,949	28,004	27,562	26,525	28.5	29.9
Commercial .....	13,222	17,946	18,443	19,091	18,941	20,035	19,669	18,696	16.7	21.1
Industrial .....	40,054	42,570	42,891	43,314	43,853	44,366	46,198	43,588	50.6	49.1
Other .....	3,274	NA	NA	NA	NA	NA	NA	NA	4.1	--
All Sectors .....	79,098	85,220	86,521	89,351	88,743	92,404	93,428	88,809	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,257	1,435	1,538	1,769	1,822	2,056	2,190	2,220	38.1	38.4
Commercial .....	696	963	1,034	1,147	1,219	1,354	1,433	1,426	21.1	24.6
Industrial.....	1,196	1,365	1,432	1,561	1,776	1,984	2,224	2,142	36.3	37.0
Other.....	149	NA	NA	NA	NA	NA	NA	NA	4.5	--
All Sectors .....	3,299	3,763	4,004	4,477	4,817	5,393	5,848	5,789	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	5.58	5.81	6.11	6.57	7.02	7.34	7.94	8.37	--	--
Commercial .....	5.27	5.37	5.60	6.01	6.44	6.76	7.29	7.63	--	--
Industrial.....	2.99	3.21	3.34	3.60	4.05	4.47	4.82	4.91	--	--
Other.....	4.55	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	4.17	4.42	4.63	5.01	5.43	5.84	6.26	6.52	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	5	30	1	24	NA	NA	NA	60
Number of Retail Customers .....	1,211,514	207,677	23	803,750	NA	NA	NA	2,222,964
Retail Sales (thousand megawatthours).....	41,139	6,505	15,818	25,347	NA	NA	NA	88,809
Percentage of Retail Sales .....	46.32	7.32	17.81	28.54	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	2,808	496	680	1,804	NA	NA	NA	5,789
Percentage of Revenue .....	48.51	8.57	11.75	31.16	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.83	7.62	4.30	7.12	NA	NA	NA	6.52

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Kentucky</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	81,658	80,697	82,921	85,680	86,816	85,259	86,012	90,030
Independent Power Producers .....	11,011	10,566	11,097	11,622	11,449	11,397	11,316	119
<b>Electric Power Sector Generation Subtotal</b> .....	<b>92,669</b>	<b>91,263</b>	<b>94,018</b>	<b>97,302</b>	<b>98,266</b>	<b>96,656</b>	<b>97,328</b>	<b>90,149</b>
Combined Heat and Power, Industrial.....	12	456	512	521	526	569	535	482
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>12</b>	<b>456</b>	<b>512</b>	<b>521</b>	<b>526</b>	<b>569</b>	<b>535</b>	<b>482</b>
<b>Total Net Generation</b> .....	<b>92,682</b>	<b>91,719</b>	<b>94,530</b>	<b>97,822</b>	<b>98,792</b>	<b>97,225</b>	<b>97,863</b>	<b>90,630</b>
<b>Total Supply</b> .....	<b>92,682</b>	<b>91,719</b>	<b>94,530</b>	<b>97,822</b>	<b>98,792</b>	<b>97,225</b>	<b>97,863</b>	<b>90,630</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	79,098	85,176	86,521	89,218	88,616	92,352	93,375	88,809
Facility Direct Retail Sales <sup>1</sup> .....	-	44	-	133	127	52	53	-
<b>Total Electric Industry Retail Sales</b> .....	<b>79,098</b>	<b>85,220</b>	<b>86,521</b>	<b>89,351</b>	<b>88,743</b>	<b>92,404</b>	<b>93,428</b>	<b>88,809</b>
<b>Direct Use</b> .....	<b>193</b>	<b>188</b>	<b>188</b>	<b>389</b>	<b>400</b>	<b>477</b>	<b>366</b>	<b>382</b>
<b>Total International Exports</b> .....	-	-	-	*	-	-	-	-
<b>Estimated Losses</b> .....	<b>5,734</b>	<b>5,686</b>	<b>6,767</b>	<b>6,690<sup>R</sup></b>	<b>6,515</b>	<b>8,234<sup>R</sup></b>	<b>6,540<sup>R</sup></b>	<b>5,015</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>7,657</b>	<b>625</b>	<b>1,053</b>	<b>1,391<sup>R</sup></b>	<b>3,133</b>	<b>-3,890<sup>R</sup></b>	<b>-2,471<sup>R</sup></b>	<b>-3,576</b>
<b>Total Disposition</b> .....	<b>92,682<sup>R</sup></b>	<b>91,719<sup>R</sup></b>	<b>94,530<sup>R</sup></b>	<b>97,822<sup>R</sup></b>	<b>98,792<sup>R</sup></b>	<b>97,225<sup>R</sup></b>	<b>97,863<sup>R</sup></b>	<b>90,630</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.09</b>	<b>1.01</b>	<b>1.01</b>	<b>1.01</b>	<b>1.03</b>	<b>0.96<sup>R</sup></b>	<b>0.98<sup>R</sup></b>	<b>0.96</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Louisiana</b>		
NERC Region(s).....		SERC/SPP
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts).....	25,987	15
Electric Utilities.....	15,615	18
Independent Power Producers & Combined Heat and Power.....	10,373	10
Net Generation (megawatthours).....	90,993,676	16
Electric Utilities.....	43,591,889	22
Independent Power Producers & Combined Heat and Power.....	47,401,787	7
Emissions (thousand metric tons).....		
Sulfur Dioxide.....	98	20
Nitrogen Oxide.....	69	12
Carbon Dioxide.....	53,226	16
Sulfur Dioxide (lbs/MWh).....	2.4	28
Nitrogen Oxide (lbs/MWh).....	1.7	22
Carbon Dioxide (lbs/MWh).....	1,290	26
Total Retail Sales (megawatthours).....	78,669,582	18
Full Service Provider Sales (megawatthours).....	78,669,582	16
Direct Use (megawatthours).....	18,914,254	2
Average Retail Price (cents/kWh).....	7.06	43

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Louisiana</b>			
1. Willow Glen.....	Gas	Entergy Gulf States Louisiana LLC	1,752
2. Big Cajun 2.....	Coal	Louisiana Generating LLC	1,743
3. Nine Mile Point.....	Gas	Entergy Louisiana Inc	1,732
4. R S Nelson.....	Coal	Entergy Gulf States Louisiana LLC	1,366
5. Little Gypsy.....	Gas	Entergy Louisiana Inc	1,178
6. Waterford 3.....	Nuclear	Entergy Louisiana Inc	1,168
7. Acadia Energy Center.....	Gas	Acadia Power Partners	1,063
8. River Bend.....	Nuclear	Entergy Gulf States Louisiana LLC	974
9. Brame Energy Center.....	Coal	Cleco Power LLC	952
10. Waterford 1 & 2.....	Gas	Entergy Louisiana Inc	816

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Louisiana</b>						
1. Entergy Louisiana Inc.....	Investor-Owned	28,395,502	8,683,630	6,325,963	13,385,909	-
2. Entergy Gulf States Louisiana LLC.....	Investor-Owned	17,961,549	5,090,190	5,270,331	7,601,028	-
3. Cleco Power LLC.....	Investor-Owned	8,489,471	3,636,885	2,620,538	2,232,048	-
4. Southwestern Electric Power Co.....	Investor-Owned	5,629,504	2,382,212	2,456,072	791,220	-
5. Entergy New Orleans Inc.....	Investor-Owned	4,723,929	1,579,325	2,609,469	526,075	9,060
Total Sales, Top Five Providers.....		65,199,955	21,372,242	19,282,373	24,536,280	9,060
Percent of Total State Sales.....		83	72	83	96	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Louisiana</b>										
<b>Electric Utilities.....</b>	<b>16,339</b>	<b>14,090</b>	<b>14,176</b>	<b>15,137</b>	<b>15,176</b>	<b>14,756</b>	<b>15,755</b>	<b>15,615</b>	<b>81.3</b>	<b>60.1</b>
Coal.....	3,453	1,723	1,723	1,723	1,723	1,739	1,739	1,739	17.2	6.7
Petroleum.....	11	16	26	239	239	240	240	240	0.1	0.9
Natural Gas.....	10,864	10,284	10,372	11,051	11,095	10,650	11,622	11,494	54.1	44.2
Nuclear.....	2,011	2,067	2,055	2,124	2,119	2,127	2,154	2,142	10.0	8.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,751</b>	<b>11,659</b>	<b>12,289</b>	<b>11,648</b>	<b>11,610</b>	<b>11,567</b>	<b>10,428</b>	<b>10,373</b>	<b>18.7</b>	<b>39.9</b>
Coal.....	-	1,730	1,730	1,730	1,730	1,743	1,743	1,743	-	6.7
Petroleum.....	231	259	259	46	46	106	106	106	1.1	0.4
Natural Gas.....	2,657	9,216	9,632	9,046	8,885	8,734	7,723	7,731	13.2	29.8
Other Gases <sup>1</sup> .....	105	63	65	64	186	167	34	34	0.5	0.1
Hydroelectric.....	182	192	192	192	192	192	192	192	0.9	0.7
Other Renewables <sup>2</sup> .....	554	175	335	333	333	394	394	387	2.8	1.5
Other <sup>3</sup> .....	21	24	77	238	238	231	236	179	0.1	0.7
<b>Total Electric Industry.....</b>	<b>20,090</b>	<b>25,749</b>	<b>26,465</b>	<b>26,785</b>	<b>26,786</b>	<b>26,323</b>	<b>26,183</b>	<b>25,987</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,453	3,453	3,453	3,453	3,453	3,482	3,482	3,482	17.2	13.4
Petroleum.....	242	275	285	285	285	346	346	346	1.2	1.3
Natural Gas.....	13,521	19,499	20,004	20,096	19,980	19,384	19,345	19,225	67.3	74.0
Other Gases <sup>1</sup> .....	105	63	65	64	186	167	34	34	0.5	0.1
Nuclear.....	2,011	2,067	2,055	2,124	2,119	2,127	2,154	2,142	10.0	8.2
Hydroelectric.....	182	192	192	192	192	192	192	192	0.9	0.7
Other Renewables <sup>2</sup> .....	554	175	335	333	333	394	394	387	2.8	1.5
Other <sup>3</sup> .....	21	24	77	238	238	231	236	179	0.1	0.7

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Louisiana</b>										
<b>Electric Utilities.....</b>	<b>64,837,110</b>	<b>43,485,059</b>	<b>47,603,602</b>	<b>44,157,533</b>	<b>40,891,159</b>	<b>43,523,037</b>	<b>43,164,448</b>	<b>43,591,889</b>	<b>72.1</b>	<b>47.9</b>
Coal.....	21,166,160	11,020,325	11,324,239	11,415,901	11,544,776	10,596,391	11,212,908	11,024,590	23.5	12.1
Petroleum.....	396,857	1,007,874	3,693,520	3,377,765	1,756,919	1,976,897	1,900,833	1,459,999	0.4	1.6
Natural Gas.....	30,162,489	15,093,742	15,138,928	13,687,514	10,854,016	13,872,177	14,679,719	14,325,223	33.5	15.7
Other Gases <sup>1</sup> .....	-	236,796	366,934	-	-	-	-	-	-	-
Nuclear.....	13,111,604	16,126,322	17,079,981	15,676,353	16,735,448	17,077,572	15,370,988	16,782,077	14.6	18.4
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>25,104,643</b>	<b>51,399,981</b>	<b>50,568,707</b>	<b>48,459,345</b>	<b>50,030,670</b>	<b>49,055,292</b>	<b>49,288,693</b>	<b>47,401,787</b>	<b>27.9</b>	<b>52.1</b>
Coal.....	15,944	11,868,605	12,333,572	11,671,464	12,850,429	12,454,792	12,887,134	12,042,547	*	13.2
Petroleum.....	1,535,604	1,930,074	209,795	163,319	115,177	273,736	404,180	397,710	1.7	0.4
Natural Gas.....	17,836,230	30,340,455	31,030,610	30,480,390	31,079,319	30,042,838	30,664,667	29,678,041	19.8	32.6
Other Gases <sup>1</sup> .....	1,651,269	2,450,434	2,165,923	1,896,725	1,594,675	1,810,997	1,101,057	1,226,994	1.8	1.3
Hydroelectric.....	801,826	891,991	1,098,825	810,948	713,215	826,642	1,064,373	1,236,351	0.9	1.4
Other Renewables <sup>2</sup> .....	2,860,316	3,078,304	2,966,391	2,886,768	2,962,363	2,979,883	2,709,675	2,363,959	3.2	2.6
Other <sup>3</sup> .....	403,454	840,117	763,590	549,731	715,492	666,404	457,607	456,186	0.4	0.5
<b>Total Electric Industry.....</b>	<b>89,941,753</b>	<b>94,885,040</b>	<b>98,172,309</b>	<b>92,616,878</b>	<b>90,921,829</b>	<b>92,578,329</b>	<b>92,453,141</b>	<b>90,993,676</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	21,182,104	22,888,930	23,657,811	23,087,365	24,395,205	23,051,183	24,100,042	23,067,136	23.6	25.4
Petroleum.....	1,932,461	2,937,948	3,903,315	3,541,084	1,872,096	2,250,633	2,305,013	1,857,709	2.1	2.0
Natural Gas.....	47,998,719	45,434,197	46,169,538	44,167,904	41,933,335	43,915,015	45,344,386	44,003,264	53.4	48.4
Other Gases <sup>1</sup> .....	1,651,269	2,687,230	2,532,857	1,896,725	1,594,675	1,810,997	1,101,057	1,226,994	1.8	1.3
Nuclear.....	13,111,604	16,126,322	17,079,981	15,676,353	16,735,448	17,077,572	15,370,988	16,782,077	14.6	18.4
Hydroelectric.....	801,826	891,991	1,098,825	810,948	713,215	826,642	1,064,373	1,236,351	0.9	1.4
Other Renewables <sup>2</sup> .....	2,860,316	3,078,304	2,966,391	2,886,768	2,962,363	2,979,883	2,709,675	2,363,959	3.2	2.6
Other <sup>3</sup> .....	403,454	840,117	763,590	549,731	715,492	666,404	457,607	456,186	0.4	0.5

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Louisiana</b>								
Coal (cents per million Btu) .....	140	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	8,149	8,023	8,146	8,136	8,205	8,246	8,183	8,201
Average sulfur Content (percent).....	0.58	0.50	0.51	0.54	0.49	0.39	0.41	0.39
Petroleum (cents per million Btu) <sup>1</sup> .....	204	247	286	427	W	W	425	195
Average heat value (Btu per gallon).....	154,469	145,807	147,379	147,057	142,607	139,310	140,002	136,969
Average sulfur Content (percent).....	1.27	3.77	3.45	3.34	4.92	6.13	5.52	5.14
Natural Gas (cents per million Btu).....	249	561	633	879	737	720	945	427
Average heat value (Btu per cubic foot).....	1,039	1,033	1,031	1,034	1,035	1,034	1,035	1,033

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Louisiana</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	102	87	87	82	81	65	62	58
Petroleum.....	62	83	20	19	17	13	15	26
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	21	21	22	24	23	23	13	13
Other <sup>2</sup> .....	1	3	3	4	4	4	2	1
Total.....	187	195	132	128	125	105	93	98
<b>Nitrogen Oxide .....</b>								
Coal.....	44	39	37	35	33	26	24	21
Petroleum.....	24	9	4	3	3	3	2	2
Natural Gas.....	73	53	50	43	40	44	40	37
Other Gases.....	2	5	6	5	4	4	2	3
Other Renewables <sup>1</sup> .....	9	8	8	8	9	8	6	6
Other <sup>2</sup> .....	2	1	1	1	2	2	*	*
Total.....	153	115	106	96	90	88	74	69
<b>Carbon Dioxide .....</b>								
Coal.....	22,108 <sup>R</sup>	23,962 <sup>R</sup>	24,942 <sup>R</sup>	24,688 <sup>R</sup>	25,765 <sup>R</sup>	24,288 <sup>R</sup>	25,402 <sup>R</sup>	24,525
Petroleum.....	2,147	3,040	4,400	3,873	2,590	3,087	2,647	2,741
Natural Gas.....	32,263	29,183	29,312	28,796	25,938	27,122	26,494	25,860
Other <sup>2</sup> .....	117	255	305	303	357	339	192	101
Total.....	56,635 <sup>R</sup>	56,440 <sup>R</sup>	58,958 <sup>R</sup>	57,660 <sup>R</sup>	54,650 <sup>R</sup>	54,836 <sup>R</sup>	54,736 <sup>R</sup>	53,226

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Louisiana</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	26,426	28,572	28,863	28,654	28,113	28,878	28,846	29,747	33.8	37.8
Commercial .....	17,581	21,944	22,568	21,692	21,979	22,887	22,939	23,301	22.5	29.6
Industrial .....	31,484	27,251	28,290	27,031	27,373	27,799	26,932	25,613	40.2	32.6
Other .....	2,776	NA	NA	NA	NA	NA	NA	NA	3.5	--
Transportation.....	NA	3	16	12	3	3	5	9	--	*
All Sectors .....	78,267	77,769	79,737	77,389	77,468	79,567	78,722	78,670	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,882	2,241	2,324	2,542	2,568	2,707	2,967	2,411	41.4	43.4
Commercial .....	1,159	1,628	1,710	1,857	1,984	2,089	2,322	1,793	25.5	32.3
Industrial.....	1,338	1,518	1,646	1,814	1,881	1,883	2,139	1,346	29.4	24.2
Other.....	172	NA	NA	NA	NA	NA	NA	NA	3.8	--
Transportation.....	NA	*	1	1	*	*	1	1	--	*
All Sectors .....	4,550	5,387	5,682	6,214	6,433	6,679	7,428	5,550	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.12	7.84	8.05	8.87	9.14	9.37	10.28	8.10	--	--
Commercial .....	6.59	7.42	7.58	8.56	9.03	9.13	10.12	7.69	--	--
Industrial.....	4.25	5.57	5.82	6.71	6.87	6.77	7.94	5.25	--	--
Other.....	6.20	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.32	7.09	7.63	14.10	13.91	11.88	10.09	--	--
All Sectors .....	5.81	6.93	7.13	8.03	8.30	8.39	9.44	7.06	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Louisiana</b>								
Number of Entities.....	5	21	NA	13	NA	NA	NA	39
Number of Retail Customers .....	1,641,120	168,490	NA	425,110	NA	NA	NA	2,234,720
Retail Sales (thousand megawatthours).....	65,200	4,570	NA	8,900	NA	NA	NA	78,670
Percentage of Retail Sales .....	82.88	5.81	--	11.31	--	--	--	100.00
Revenue from Retail Sales (million dollars) .....	4,516	350	NA	685	NA	NA	NA	5,550
Percentage of Revenue .....	81.36	6.31	--	12.34	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.93	7.66	NA	7.69	NA	NA	NA	7.06

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Louisiana</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	64,837	43,485	47,604	44,158	40,891	43,523	43,164	43,592
Independent Power Producers .....	1,024	21,184	18,811	18,095	18,740	17,735	18,768	16,746
Combined Heat and Power, Electric .....	1,522	1,845	5,233	8,254	4,165	4,416	4,317	4,836
<b>Electric Power Sector Generation Subtotal</b> .....	<b>67,383</b>	<b>66,513</b>	<b>71,648</b>	<b>70,507</b>	<b>63,796</b>	<b>65,674</b>	<b>66,249</b>	<b>65,174</b>
Combined Heat and Power, Commercial .....	17	23	20	38	39	43	46	45
Combined Heat and Power, Industrial .....	22,542	28,348	26,505	22,072	27,087	26,862	26,157	25,775
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>22,559</b>	<b>28,372</b>	<b>26,525</b>	<b>22,110</b>	<b>27,125</b>	<b>26,905</b>	<b>26,204</b>	<b>25,820</b>
<b>Total Net Generation</b> .....	<b>89,942</b>	<b>94,885</b>	<b>98,172</b>	<b>92,617</b>	<b>90,922</b>	<b>92,578</b>	<b>92,453</b>	<b>90,994</b>
<b>Total Supply</b> .....	<b>89,942</b>	<b>94,885</b>	<b>98,172</b>	<b>92,617</b>	<b>90,922</b>	<b>92,578</b>	<b>92,453</b>	<b>90,994</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	78,267	77,727	79,737	77,389	77,468	79,567	78,722	78,670
Facility Direct Retail Sales <sup>1</sup> .....	-	43	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>78,267</b>	<b>77,769</b>	<b>79,737</b>	<b>77,389</b>	<b>77,468</b>	<b>79,567</b>	<b>78,722</b>	<b>78,670</b>
<b>Direct Use</b> .....	<b>22,189</b>	<b>22,048</b>	<b>22,071</b>	<b>20,420</b>	<b>23,506</b>	<b>20,276<sup>R</sup></b>	<b>19,663<sup>R</sup></b>	<b>18,914</b>
<b>Estimated Losses</b> .....	<b>5,673</b>	<b>4,195</b>	<b>5,188</b>	<b>5,528<sup>R</sup></b>	<b>5,464</b>	<b>6,587<sup>R</sup></b>	<b>5,922<sup>R</sup></b>	<b>5,756</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-16,187</b>	<b>-9,128</b>	<b>-8,824</b>	<b>-10,720<sup>R</sup></b>	<b>-15,516</b>	<b>-13,851<sup>R</sup></b>	<b>-11,854<sup>R</sup></b>	<b>-12,346</b>
<b>Total Disposition</b> .....	<b>89,942<sup>R</sup></b>	<b>94,885<sup>R</sup></b>	<b>98,172<sup>R</sup></b>	<b>92,617<sup>R</sup></b>	<b>90,922<sup>R</sup></b>	<b>92,578<sup>R</sup></b>	<b>92,453<sup>R</sup></b>	<b>90,994</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.85</b>	<b>0.91</b>	<b>0.92</b>	<b>0.90</b>	<b>0.85</b>	<b>0.87<sup>R</sup></b>	<b>0.89<sup>R</sup></b>	<b>0.88</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Maine</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	4,344	42
Electric Utilities.....	19	49
Independent Power Producers & Combined Heat and Power.....	4,324	23
Net Generation (megawatthours).....	16,349,849	43
Electric Utilities.....	867	49
Independent Power Producers & Combined Heat and Power.....	16,348,982	21
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	33	32
Nitrogen Oxide.....	12	43
Carbon Dioxide.....	4,714	44
Sulfur Dioxide (lbs/MWh) .....	4.4	16
Nitrogen Oxide (lbs/MWh) .....	1.7	23
Carbon Dioxide (lbs/MWh).....	636	43
Total Retail Sales (megawatthours).....	11,282,967	44
Full Service Provider Sales (megawatthours) .....	150,371	51
Energy-Only Provider Sales (megawatthours).....	11,132,596	9
Direct Use (megawatthours) .....	3,085,306	9
Average Retail Price (cents/kWh).....	13.09	10

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Maine</b>			
1. William F Wyman .....	Petroleum	FPL Energy Wyman LLC	822
2. Westbrook Energy Center .....	Gas	Calpine Operating Services Company Inc	506
3. Maine Independence Station .....	Gas	Casco Bay Energy Co LLC	490
4. Rumford Power Associates .....	Gas	Rumford Power	254
5. Verso Paper.....	Gas	Verso Bucksport LLC	250
6. Androscoggin Energy Center .....	Gas	Verso Paper Androscoggin LLC	137
7. Great Lakes Hydro America - ME .....	Hydroelectric	Great Lakes Hydro America LLC	129
8. Sappi Fine Paper North America, Somerset Facility .....	Other Renewables	Sappi Fine Paper North America-Somerset	115
9. Harris .....	Hydroelectric	FPL Energy Maine Hydro LLC	87
10. Rumford Cogeneration .....	Other Renewables	NewPage Corporation	85

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. NextEra Energy Power Marketing LLC.....	Other Provider	3,871,055	3,336,881	470,925	63,249	-
2. Constellation NewEnergy, Inc.....	Other Provider	1,171,723	-	957,034	214,689	-
3. Dominion Retail Inc.....	Other Provider	952,460	-	952,460	-	-
4. Integrys Energy Services, Inc.....	Other Provider	564,238	50,957	31,000	482,281	-
5. Suez Energy Resources North America.....	Other Provider	519,093	-	519,018	75	-
Total Sales, Top Five Providers.....		7,078,569	3,387,838	2,930,437	760,294	-
Percent of Total State Sales.....		63	78	72	27	-

-(dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>88</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>3.0</b>	<b>0.4</b>
Petroleum.....	54	19	19	19	19	19	19	19	1.9	0.4
Hydroelectric.....	34	-	-	-	-	-	-	-	1.2	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,790</b>	<b>4,266</b>	<b>4,170</b>	<b>4,166</b>	<b>4,168</b>	<b>4,194</b>	<b>4,219</b>	<b>4,324</b>	<b>97.0</b>	<b>99.6</b>
Coal.....	96	85	85	85	85	85	85	85	3.3	2.0
Petroleum.....	1,092	1,097	1,010	1,010	1,010	1,011	1,011	988	37.9	22.8
Natural Gas.....	105	1,670	1,658	1,658	1,655	1,636	1,645	1,645	3.6	37.9
Hydroelectric.....	742	721	722	720	719	718	730	738	25.8	17.0
Other Renewables <sup>1</sup> .....	755	693	695	693	699	744	748	868	26.2	20.0
<b>Total Electric Industry.....</b>	<b>2,877</b>	<b>4,285</b>	<b>4,190</b>	<b>4,185</b>	<b>4,187</b>	<b>4,213</b>	<b>4,239</b>	<b>4,344</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	96	85	85	85	85	85	85	85	3.3	2.0
Petroleum.....	1,146	1,116	1,029	1,030	1,030	1,031	1,031	1,008	39.8	23.2
Natural Gas.....	105	1,670	1,658	1,658	1,655	1,636	1,645	1,645	3.6	37.9
Hydroelectric.....	776	721	722	720	719	718	730	738	27.0	17.0
Other Renewables <sup>1</sup> .....	755	693	695	693	699	744	748	868	26.2	20.0

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

-(dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Maine</b>										
<b>Electric Utilities.....</b>	<b>1,189,273</b>	<b>1,409</b>	<b>1,121</b>	<b>827</b>	<b>489</b>	<b>1,317</b>	<b>1,080</b>	<b>867</b>	<b>9.4</b>	<b>*</b>
Petroleum.....	673,031	1,409	1,121	827	489	1,317	1,080	867	5.3	*
Hydroelectric.....	516,242	-	-	-	-	-	-	-	4.1	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>11,484,656</b>	<b>18,970,227</b>	<b>19,097,764</b>	<b>18,843,151</b>	<b>16,815,684</b>	<b>16,127,250</b>	<b>17,093,839</b>	<b>16,348,982</b>	<b>90.6</b>	<b>100.0</b>
Coal.....	494,407	376,532	359,410	320,271	321,262	375,577	351,799	72,146	3.9	0.4
Petroleum.....	4,038,390	1,918,139	1,310,792	1,620,564	594,446	817,060	531,905	432,566	31.9	2.6
Natural Gas.....	80,735	9,438,704	9,832,187	8,398,453	7,297,856	6,674,594	7,379,615	7,355,394	0.6	45.0
Other Gases <sup>1</sup> .....	4,517	34	38	54	-	-	-	-	*	-
Hydroelectric.....	3,239,714	3,172,623	3,430,249	4,090,926	4,278,132	3,738,168	4,457,405	4,211,679	25.6	25.8
Other Renewables <sup>2</sup> .....	3,626,893	3,586,010	3,598,037	4,068,189	3,967,651	4,206,979	4,057,985	3,938,244	28.6	24.1
Other <sup>3</sup> .....	-	478,184	567,052	344,693	356,336	314,872	315,131	338,953	-	2.1
<b>Total Electric Industry.....</b>	<b>12,673,929</b>	<b>18,971,636</b>	<b>19,098,885</b>	<b>18,843,978</b>	<b>16,816,173</b>	<b>16,128,567</b>	<b>17,094,919</b>	<b>16,349,849</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	494,407	376,532	359,410	320,271	321,262	375,577	351,799	72,146	3.9	0.4
Petroleum.....	4,711,421	1,919,548	1,311,913	1,621,391	594,935	818,377	532,985	433,433	37.2	2.7
Natural Gas.....	80,735	9,438,704	9,832,187	8,398,453	7,297,856	6,674,594	7,379,615	7,355,394	0.6	45.0
Other Gases <sup>1</sup> .....	4,517	34	38	54	-	-	-	-	*	-
Hydroelectric.....	3,755,956	3,172,623	3,430,249	4,090,926	4,278,132	3,738,168	4,457,405	4,211,679	29.6	25.8
Other Renewables <sup>2</sup> .....	3,626,893	3,586,010	3,598,037	4,068,189	3,967,651	4,206,979	4,057,985	3,938,244	28.6	24.1
Other <sup>3</sup> .....	-	478,184	567,052	344,693	356,336	314,872	315,131	338,953	-	2.1

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Maine</b>								
Coal (cents per million Btu) .....	-	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	-	13,124	12,854	12,823	12,784	13,171	12,979	12,779
Average sulfur Content (percent).....	-	0.69	0.77	0.78	0.70	0.65	0.72	0.82
Petroleum (cents per million Btu) <sup>1</sup> .....	178	556	504	W	762	W	1,081	841
Average heat value (Btu per gallon).....	150,838	150,319	151,731	152,776	152,495	150,571	149,510	148,076
Average sulfur Content (percent).....	1.00	0.81	1.02	1.12	1.33	1.35	1.24	1.10
Natural Gas (cents per million Btu).....	-	584	628	W	W	W	1,006	493
Average heat value (Btu per cubic foot).....	-	1,042	1,044	1,058	1,062	1,056	1,053	1,045

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Maine</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	2	1	2	2	2	2	1	*
Petroleum.....	40	9	9	11	7	11	6	4
Natural Gas.....	-	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	12	9	9	9	8	8	19	28
Other <sup>2</sup> .....	2 <sup>R</sup>	1	1 <sup>R</sup>	*	*	*	*	1
Total.....	55	20	20	22	17	21	26	33
<b>Nitrogen Oxide .....</b>								
Coal.....	1	1	1	1	1	1	1	*
Petroleum.....	9	3	2	3	2	2	1	1
Natural Gas.....	*	2	2	*	*	*	*	*
Other Gases.....	*	-	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	8 <sup>R</sup>	6 <sup>R</sup>	5 <sup>R</sup>	6 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	7 <sup>R</sup>	9
Other <sup>2</sup> .....	2 <sup>R</sup>	1	1	2 <sup>R</sup>	1	2 <sup>R</sup>	1 <sup>R</sup>	1
Total.....	20	13	12	12	10	10	11	12
<b>Carbon Dioxide .....</b>								
Coal.....	628 <sup>R</sup>	641 <sup>R</sup>	655 <sup>R</sup>	615 <sup>R</sup>	611 <sup>R</sup>	651 <sup>R</sup>	556	157
Petroleum.....	5,744 <sup>R</sup>	2,462	2,010	2,498	1,419	1,463	917	714
Natural Gas.....	120	4,170	4,272	3,478	3,121	2,958	3,321	3,202
Other Gases.....	9 <sup>R</sup>	*	*	*	-	-	-	-
Other <sup>2</sup> .....	411 <sup>R</sup>	493	453	522	526	536	519	643
Total.....	6,911	7,765	7,390 <sup>R</sup>	7,112 <sup>R</sup>	5,677 <sup>R</sup>	5,608 <sup>R</sup>	5,314 <sup>R</sup>	4,714

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Maine</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	3,704	4,219	4,331	4,503	4,351	4,413	4,351	4,360	31.0	38.6
Commercial .....	3,491	3,959	4,325	4,157	4,134	4,195	4,148	4,071	29.2	36.1
Industrial .....	4,687	3,793	3,711	3,702	3,800	3,252	3,175	2,852	39.2	25.3
Other .....	61	NA	NA	NA	NA	NA	NA	NA	0.5	--
All Sectors .....	11,944	11,972	12,368	12,363	12,285	11,860	11,674	11,283	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	484	522	527	596	601	729	705	682	41.5	46.2
Commercial .....	367	409	428	442	514	543	538	511	31.4	34.6
Industrial .....	301	241	244	269	336	459	372	284	25.8	19.2
Other .....	15	NA	NA	NA	NA	NA	NA	NA	1.3	--
All Sectors .....	1,167	1,172	1,198	1,307	1,450	1,731	1,615	1,477	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	13.07	12.37	12.16	13.23	13.80	16.52	16.20	15.65	--	--
Commercial .....	10.51	10.34	9.89	10.63	12.42	12.94	12.98	12.55	--	--
Industrial .....	6.42	6.35	6.56	7.28	8.83	14.11	11.70	9.95	--	--
Other .....	24.29	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	9.77	9.79	9.69	10.57	11.80	14.59	13.83	13.09	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total	
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery		
<b>Maine</b>									
Number of Entities.....		1	4	NA	2	NA	21	6	34
Number of Retail Customers .....		34	10,395	NA	2,491	NA	774,682	NA	787,602
Retail Sales (thousand megawatthours).....		*	139	NA	11	NA	11,133	NA	11,283
Percentage of Retail Sales .....		*	1.23	--	0.10	--	98.67	--	100.00
Revenue from Retail Sales (million dollars).....		*	19	NA	3	NA	947	508	1,477
Percentage of Revenue .....		*	1.26	--	0.21	--	64.15	34.37	100.00
Average Retail Price (cents/kWh).....		13.18	13.43	NA	27.24	NA	8.51	4.56	13.09

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Maine</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	1,189	1	1	1	*	1	1	1
Independent Power Producers .....	5,949	11,668	12,630	13,127	11,091	10,154	10,942	10,946
Combined Heat and Power, Electric .....	829	1,691	1,400	730	701	702	575	479
<b>Electric Power Sector Generation Subtotal</b> .....	<b>7,967</b>	<b>13,361</b>	<b>14,031</b>	<b>13,858</b>	<b>11,792</b>	<b>10,857</b>	<b>11,517</b>	<b>11,426</b>
Combined Heat and Power, Commercial .....	182	183	176	177	172	173	177	184
Combined Heat and Power, Industrial.....	4,524	5,428	4,892	4,809	4,852	5,099	5,400	4,740
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>4,707</b>	<b>5,611</b>	<b>5,068</b>	<b>4,986</b>	<b>5,024</b>	<b>5,272</b>	<b>5,578</b>	<b>4,924</b>
<b>Total Net Generation</b> .....	<b>12,674</b>	<b>18,972</b>	<b>19,099</b>	<b>18,844</b>	<b>16,816</b>	<b>16,129</b>	<b>17,095</b>	<b>16,350</b>
<b>Total International Imports</b> .....	<b>4,436</b>	<b>2,676</b>	<b>3,922</b>	<b>2,537<sup>R</sup></b>	<b>3,774</b>	<b>4,263</b>	<b>1,743</b>	<b>2,604</b>
<b>Total Supply</b> .....	<b>17,110</b>	<b>21,647</b>	<b>23,021</b>	<b>21,381<sup>R</sup></b>	<b>20,590</b>	<b>20,391</b>	<b>18,838</b>	<b>18,954</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	11,944	398	463	173	169	159	154	150
Energy-Only Providers.....	-	11,203	11,775	11,993	11,453	11,702	11,520	11,133
Facility Direct Retail Sales <sup>1</sup> .....	-	371	130	196	663	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>11,944</b>	<b>11,972</b>	<b>12,368</b>	<b>12,363</b>	<b>12,285</b>	<b>11,860</b>	<b>11,674</b>	<b>11,283</b>
<b>Direct Use</b> .....	<b>3,914</b>	<b>4,368</b>	<b>4,372</b>	<b>2,588</b>	<b>4,344</b>	<b>3,811<sup>R</sup></b>	<b>3,636<sup>R</sup></b>	<b>3,085</b>
<b>Total International Exports</b> .....	<b>583</b>	<b>236</b>	<b>124</b>	<b>151<sup>R</sup></b>	<b>591</b>	<b>898</b>	<b>624<sup>R</sup></b>	<b>624</b>
<b>Estimated Losses</b> .....	<b>866</b>	<b>304</b>	<b>447</b>	<b>490</b>	<b>376</b>	<b>378<sup>R</sup></b>	<b>461<sup>R</sup></b>	<b>340</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-196</b>	<b>4,768</b>	<b>5,710</b>	<b>5,789<sup>R</sup></b>	<b>2,994</b>	<b>3,444<sup>R</sup></b>	<b>2,444<sup>R</sup></b>	<b>3,622</b>
<b>Total Disposition</b> .....	<b>17,110<sup>R</sup></b>	<b>21,647<sup>R</sup></b>	<b>23,021<sup>R</sup></b>	<b>21,381<sup>R</sup></b>	<b>20,590<sup>R</sup></b>	<b>20,391<sup>R</sup></b>	<b>18,838<sup>R</sup></b>	<b>18,954</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.99</b>	<b>1.28</b>	<b>1.33</b>	<b>1.37<sup>R</sup></b>	<b>1.17</b>	<b>1.20</b>	<b>1.15</b>	<b>1.24</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Maryland</b>		
NERC Region(s).....		RFC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	12,482	33
Electric Utilities.....	80	47
Independent Power Producers & Combined Heat and Power.....	12,403	9
Net Generation (megawatthours).....	43,774,832	33
Electric Utilities.....	2,294	48
Independent Power Producers & Combined Heat and Power.....	43,772,538	8
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	197	12
Nitrogen Oxide.....	23	34
Carbon Dioxide.....	25,659	32
Sulfur Dioxide (lbs/MWh) .....	9.9	3
Nitrogen Oxide (lbs/MWh) .....	1.2	31
Carbon Dioxide (lbs/MWh).....	1,292	25
Total Retail Sales (megawatthours).....	62,589,143	24
Full Service Provider Sales (megawatthours) .....	35,962,461	31
Energy-Only Provider Sales (megawatthours).....	26,626,682	3
Direct Use (megawatthours) .....	1,084,931	24
Average Retail Price (cents/kWh).....	13.08	11

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Maryland</b>			
1. Chalk Point LLC.....	Coal	Mirant Chalk Point LLC	2,401
2. Calvert Cliffs Nuclear Power Plant.....	Nuclear	Calvert Cliffs Nuclear PP Inc	1,705
3. Morgantown Generating Plant .....	Coal	Mirant Mid-Atlantic LLC	1,467
4. Brandon Shores.....	Coal	Constellation Power Source Gen	1,273
5. Herbert A Wagner .....	Coal	Constellation Power Source Gen	976
6. Dickerson.....	Coal	Mirant Mid-Atlantic LLC	844
7. NAEA Rock Springs LLC.....	Gas	NAEA Rock Springs LLC	639
8. Conowingo.....	Hydroelectric	Exelon Power	572
9. C P Crane.....	Coal	Constellation Power Source Gen	399
10. Perryman.....	Gas	Constellation Power Source Gen	354

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Baltimore Gas & Electric Co.....	Investor-Owned	16,608,614	12,393,958	3,944,909	269,747	-
2. Potomac Electric Power Co.....	Investor-Owned	7,355,134	5,330,479	1,996,231	28,424	-
3. PEPCO Energy Services.....	Other Provider	6,331,815	13,110	6,304,503	-	14,202
4. Washington Gas Energy Services .....	Other Provider	4,377,096	712,073	3,665,023	-	-
5. Constellation NewEnergy, Inc.....	Other Provider	4,359,582	-	3,032,528	855,659	471,395
Total Sales, Top Five Providers .....		39,032,241	18,449,620	18,943,194	1,153,830	485,597
Percent of Total State Sales .....		62	68	64	22	88

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>10,955</b>	<b>70</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>93.1</b>	<b>0.6</b>
Coal.....	4,647	-	-	-	-	-	-	-	39.5	-
Petroleum.....	2,673	70	79	79	79	80	80	80	22.7	0.6
Natural Gas.....	1,448	-	-	-	-	-	-	-	12.3	-
Nuclear.....	1,675	-	-	-	-	-	-	-	14.2	-
Hydroelectric.....	512	-	-	-	-	-	-	-	4.3	-
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>818</b>	<b>12,401</b>	<b>12,419</b>	<b>12,423</b>	<b>12,421</b>	<b>12,406</b>	<b>12,505</b>	<b>12,403</b>	<b>6.9</b>	<b>99.4</b>
Coal.....	248	4,957	4,958	4,958	4,958	4,958	4,944	4,876	2.1	39.1
Petroleum.....	165	2,752	3,343	3,343	3,061	2,885	2,911	2,907	1.4	23.3
Natural Gas.....	258	2,144	1,538	1,542	1,821	1,953	2,038	2,035	2.2	16.3
Other Gases <sup>1</sup> .....	-	152	152	152	152	152	152	152	-	1.2
Nuclear.....	-	1,703	1,735	1,735	1,735	1,735	1,735	1,705	-	13.7
Hydroelectric.....	19	566	566	566	566	590	590	590	0.2	4.7
Other Renewables <sup>2</sup> .....	128	127	127	127	127	133	135	137	1.1	1.1
<b>Total Electric Industry.....</b>	<b>11,773</b>	<b>12,472</b>	<b>12,499</b>	<b>12,503</b>	<b>12,500</b>	<b>12,486</b>	<b>12,585</b>	<b>12,482</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,895	4,957	4,958	4,958	4,958	4,958	4,944	4,876	41.6	39.1
Petroleum.....	2,838	2,822	3,422	3,422	3,140	2,965	2,991	2,986	24.1	23.9
Natural Gas.....	1,706	2,144	1,538	1,542	1,821	1,953	2,038	2,035	14.5	16.3
Other Gases <sup>1</sup> .....	-	152	152	152	152	152	152	152	-	1.2
Nuclear.....	1,675	1,703	1,735	1,735	1,735	1,735	1,735	1,705	14.2	13.7
Hydroelectric.....	531	566	566	566	566	590	590	590	4.5	4.7
Other Renewables <sup>2</sup> .....	128	127	127	127	127	133	135	137	1.1	1.1

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Maryland</b>										
<b>Electric Utilities.....</b>	<b>49,323,828</b>	<b>51,722</b>	<b>30,023</b>	<b>44,235</b>	<b>11,941</b>	<b>23,712</b>	<b>5,856</b>	<b>2,294</b>	<b>95.4</b>	<b>*</b>
Coal.....	29,352,347	-	-	-	-	-	-	-	56.8	-
Petroleum.....	3,897,208	51,722	30,023	44,235	11,941	23,712	5,856	2,294	7.5	*
Natural Gas.....	1,339,520	-	-	-	-	-	-	-	2.6	-
Nuclear.....	13,312,335	-	-	-	-	-	-	-	25.8	-
Hydroelectric.....	1,422,418	-	-	-	-	-	-	-	2.8	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,361,793</b>	<b>52,192,515</b>	<b>52,022,747</b>	<b>52,617,365</b>	<b>48,944,939</b>	<b>50,174,211</b>	<b>47,355,097</b>	<b>43,772,538</b>	<b>4.6</b>	<b>100.0</b>
Coal.....	335,308	29,939,086	29,195,458	29,302,792	29,408,022	29,699,186	27,218,239	24,162,345	0.6	55.2
Petroleum.....	393,580	3,520,461	3,266,819	3,761,334	568,785	961,118	399,984	327,606	0.8	0.7
Natural Gas.....	785,673	1,195,643	1,183,301	1,886,986	1,770,206	2,240,927	1,848,147	1,767,845	1.5	4.0
Other Gases <sup>1</sup> .....	59,891	325,355	411,565	342,466	332,444	377,560	337,823	269,182	0.1	0.6
Nuclear.....	-	13,690,713	14,580,260	14,703,221	13,830,411	14,353,192	14,678,695	14,550,119	-	33.2
Hydroelectric.....	1,779	2,646,984	2,507,521	1,703,639	2,104,275	1,652,216	1,974,078	1,888,769	*	4.3
Other Renewables <sup>2</sup> .....	785,562	596,050	589,208	623,365	626,161	603,462	612,485	550,780	1.5	1.3
Other <sup>3</sup> .....	-	278,224	288,616	293,561	304,635	286,550	285,645	255,891	-	0.6
<b>Total Electric Industry.....</b>	<b>51,685,621</b>	<b>52,244,237</b>	<b>52,052,770</b>	<b>52,661,600</b>	<b>48,956,880</b>	<b>50,197,924</b>	<b>47,360,953</b>	<b>43,774,832</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	29,687,655	29,939,086	29,195,458	29,302,792	29,408,022	29,699,186	27,218,239	24,162,345	57.4	55.2
Petroleum.....	4,290,788	3,572,183	3,296,842	3,805,569	580,726	984,831	405,840	329,900	8.3	0.8
Natural Gas.....	2,125,193	1,195,643	1,183,301	1,886,986	1,770,206	2,240,927	1,848,147	1,767,845	4.1	4.0
Other Gases <sup>1</sup> .....	59,891	325,355	411,565	342,466	332,444	377,560	337,823	269,182	0.1	0.6
Nuclear.....	13,312,335	13,690,713	14,580,260	14,703,221	13,830,411	14,353,192	14,678,695	14,550,119	25.8	33.2
Hydroelectric.....	1,424,197	2,646,984	2,507,521	1,703,639	2,104,275	1,652,216	1,974,078	1,888,769	2.8	4.3
Other Renewables <sup>2</sup> .....	785,562	596,050	589,208	623,365	626,161	603,462	612,485	550,780	1.5	1.3
Other <sup>3</sup> .....	-	278,224	288,616	293,561	304,635	286,550	285,645	255,891	-	0.6

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Maryland</b>								
Coal (cents per million Btu) .....	138	163	174	192	227	212	366	301
Average heat value (Btu per pound).....	12,943	12,708	12,653	12,638	12,504	12,501	12,361	12,510
Average sulfur Content (percent).....	1.12	1.07	1.25	1.32	1.28	1.26	1.20	1.25
Petroleum (cents per million Btu) <sup>1</sup> .....	257	534	552	788	1,013	1,060	1,721	1,014
Average heat value (Btu per gallon).....	151,071	148,564	149,417	148,498	146,088	145,614	142,967	140,426
Average sulfur Content (percent).....	1.00	0.61	0.54	0.64	0.48	0.53	0.38	0.31
Natural Gas (cents per million Btu).....	308	537	553	991	748	757	1,051	521
Average heat value (Btu per cubic foot).....	1,040	1,047	1,048	1,046	1,043	1,042	1,050	1,053

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Maryland</b>								
<b>Sulfur Dioxide</b> .....								
Coal.....	237	248	261	258	256	252	222	194
Petroleum.....	30	14	13	16	12	12	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	2 <sup>R</sup>	2	2	2	2	2	2	2
Other <sup>2</sup> .....	1 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	270	264	277	276	271	267	226	197
<b>Nitrogen Oxide</b> .....								
Coal.....	85	57	51	50	47	43	33	17
Petroleum.....	13	8	7	8	5	5	2	1
Natural Gas.....	3	1	3	2	7	2	2	2
Other Gases.....	*	1	1	1	1	1	1	1
Other Renewables <sup>1</sup> .....	1 <sup>R</sup>	1 <sup>R</sup>	2 <sup>R</sup>	2	2	1 <sup>R</sup>	2 <sup>R</sup>	2
Other <sup>2</sup> .....	3 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2
Total.....	105	70	65	64	62	55	41	23
<b>Carbon Dioxide</b> .....								
Coal.....	27,432 <sup>R</sup>	28,691 <sup>R</sup>	28,186 <sup>R</sup>	28,547 <sup>R</sup>	28,362 <sup>R</sup>	28,666 <sup>R</sup>	26,965 <sup>R</sup>	23,650
Petroleum.....	4,003	2,998	2,839	3,315	553	893	380	312
Natural Gas.....	1,436	677	743	1,245	1,308	1,373	1,223 <sup>R</sup>	1,132
Other Gases.....	* <sup>R</sup>	-	-	-	*	-	-	-
Other <sup>2</sup> .....	576 <sup>R</sup>	601	599	587	612	580	587	565
Total.....	33,447 <sup>R</sup>	32,968 <sup>R</sup>	32,367 <sup>R</sup>	33,694 <sup>R</sup>	30,836 <sup>R</sup>	31,511 <sup>R</sup>	29,155 <sup>R</sup>	25,659

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Maryland</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	23,342	26,671	27,952	28,440	26,905	28,195	27,144	26,945	39.5	43.0
Commercial .....	24,988	16,950	17,264	17,932	29,729	30,691	30,003	29,806	42.3	47.6
Industrial .....	9,936	27,176	21,195	21,517	6,057	5,980	5,650	5,286	16.8	8.4
Other .....	819	NA	NA	NA	NA	NA	NA	NA	1.4	--
Transportation.....	NA	461	481	477	482	524	529	553	--	0.9
All Sectors .....	59,086	71,259	66,892	68,365	63,173	65,391	63,326	62,589	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,959	2,060	2,181	2,405	2,614	3,353	3,757	4,037	47.1	49.3
Commercial .....	1,703	1,178	1,304	1,608	3,141	3,553	3,828	3,568	41.0	43.6
Industrial.....	423	1,329	1,269	1,509	493	563	586	524	10.2	6.4
Other.....	72	NA	NA	NA	NA	NA	NA	NA	1.7	--
Transportation.....	NA	27	31	37	41	53	61	58	--	0.7
All Sectors .....	4,158	4,594	4,785	5,559	6,288	7,523	8,232	8,186	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.39	7.73	7.80	8.46	9.71	11.89	13.84	14.98	--	--
Commercial .....	6.82	6.95	7.56	8.97	10.56	11.58	12.76	11.97	--	--
Industrial.....	4.26	4.89	5.99	7.01	8.14	9.41	10.37	9.92	--	--
Other.....	8.77	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	5.78	6.46	7.73	8.43	10.15	11.52	10.43	--	--
All Sectors .....	7.04	6.45	7.15	8.13	9.95	11.50	13.00	13.08	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Maryland</b>								
Number of Entities.....	4	5	NA	3	NA	22	4	38
Number of Retail Customers .....	2,068,904	34,068	NA	200,482	NA	136,354	NA	2,439,808
Retail Sales (thousand megawatthours).....	30,929	728	NA	4,306	NA	26,627	NA	62,589
Percentage of Retail Sales .....	49.42	1.16	--	6.88	--	42.54	--	100.00
Revenue from Retail Sales (million dollars) .....	4,458	77	NA	579	NA	2,522	550	8,186
Percentage of Revenue .....	54.46	0.94	--	7.08	--	30.81	6.72	100.00
Average Retail Price (cents/kWh).....	14.41	10.56	NA	13.46	NA	9.47	2.06	13.08

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Maryland</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	49,324	52	30	44	12	24	6	2
Independent Power Producers .....	341	48,824	48,457	48,780	45,406	46,274	43,748	40,492
Combined Heat and Power, Electric .....	1,528	2,813	2,926	3,196	2,902	3,275	3,086	2,795
<b>Electric Power Sector Generation Subtotal</b> .....	<b>51,193</b>	<b>51,689</b>	<b>51,413</b>	<b>52,020</b>	<b>48,320</b>	<b>49,573</b>	<b>46,840</b>	<b>43,290</b>
Combined Heat and Power, Commercial .....	25	31	49	54	32	28	40	32
Combined Heat and Power, Industrial.....	468	524	591	588	605	597	481	453
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>493</b>	<b>555</b>	<b>640</b>	<b>641</b>	<b>637</b>	<b>625</b>	<b>521</b>	<b>485</b>
<b>Total Net Generation</b> .....	<b>51,686</b>	<b>52,244</b>	<b>52,053</b>	<b>52,662</b>	<b>48,957</b>	<b>50,198</b>	<b>47,361</b>	<b>43,775</b>
<b>Total Supply</b> .....	<b>51,686</b>	<b>52,244</b>	<b>52,053</b>	<b>52,662</b>	<b>48,957</b>	<b>50,198</b>	<b>47,361</b>	<b>43,775</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	59,086	59,675	53,240	49,145	41,666	38,442	36,766	35,962
Energy-Only Providers.....	-	11,566	13,652	19,202	21,507	26,924	26,560	26,627
Facility Direct Retail Sales <sup>1</sup> .....	-	18	-	18	-	25	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>59,086</b>	<b>71,259</b>	<b>66,892</b>	<b>68,365</b>	<b>63,173</b>	<b>65,391</b>	<b>63,326</b>	<b>62,589</b>
<b>Direct Use</b> .....	<b>1,092</b>	<b>1,197</b>	<b>1,198</b>	<b>1,095</b>	<b>1,323</b>	<b>1,182<sup>R</sup></b>	<b>1,204</b>	<b>1,085</b>
<b>Estimated Losses</b> .....	<b>4,283</b>	<b>3,610</b>	<b>4,689</b>	<b>5,309<sup>R</sup></b>	<b>4,734</b>	<b>5,976<sup>R</sup></b>	<b>5,683<sup>R</sup></b>	<b>4,839</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-12,775</b>	<b>-23,821</b>	<b>-20,727</b>	<b>-22,108<sup>R</sup></b>	<b>-20,274</b>	<b>-22,351<sup>R</sup></b>	<b>-22,852<sup>R</sup></b>	<b>-24,738</b>
<b>Total Disposition</b> .....	<b>51,686<sup>R</sup></b>	<b>52,244<sup>R</sup></b>	<b>52,053<sup>R</sup></b>	<b>52,662<sup>R</sup></b>	<b>48,957<sup>R</sup></b>	<b>50,198<sup>R</sup></b>	<b>47,361<sup>R</sup></b>	<b>43,775</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.80</b>	<b>0.69</b>	<b>0.72</b>	<b>0.70</b>	<b>0.71</b>	<b>0.69<sup>R</sup></b>	<b>0.67<sup>R</sup></b>	<b>0.64</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Massachusetts</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	13,699	30
Electric Utilities.....	930	42
Independent Power Producers & Combined Heat and Power.....	12,769	8
Net Generation (megawatthours).....	38,966,651	36
Electric Utilities.....	447,912	44
Independent Power Producers & Combined Heat and Power.....	38,518,739	10
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	33	31
Nitrogen Oxide.....	17	39
Carbon Dioxide.....	19,683	35
Sulfur Dioxide (lbs/MWh) .....	1.9	35
Nitrogen Oxide (lbs/MWh) .....	0.9	36
Carbon Dioxide (lbs/MWh).....	1,114	34
Total Retail Sales (megawatthours).....	54,359,198	26
Full Service Provider Sales (megawatthours) .....	29,734,111	34
Energy-Only Provider Sales (megawatthours).....	24,625,087	4
Direct Use (megawatthours) .....	658,587	30
Average Retail Price (cents/kWh).....	15.45	4

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Massachusetts</b>			
1. Mystic Generating Station.....	Gas	Boston Generating LLC	1,965
2. Brayton Point.....	Coal	Dominion Energy New England, LLC	1,545
3. Canal.....	Petroleum	Mirant Canal LLC	1,119
4. Northfield Mountain.....	Pumped Storage	FirstLight Power Resources Services LLC	1,080
5. Salem Harbor.....	Coal	Dominion Energy New England, LLC	744
6. Fore River Generating Station.....	Gas	Boston Generating LLC	688
7. Pilgrim Nuclear Power Station.....	Nuclear	Energy Nuclear Generation Co	685
8. Bear Swamp.....	Pumped Storage	Brookfield Power New England	600
9. ANP Bellingham Energy Project.....	Gas	ANP Bellingham Energy Company LLC	475
10. ANP Blackstone Energy Project .....	Gas	ANP Blackstone Energy Company LLC	444

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Massachusetts Electric Co.....	Investor-Owned	10,973,005	7,657,443	2,868,132	447,430	-
2. NSTAR Electric Company.....	Investor-Owned	8,752,649	5,136,866	2,509,682	1,106,101	-
3. Constellation NewEnergy, Inc.....	Other Provider	6,372,186	-	4,906,582	1,465,604	-
4. TransCanada Power Mktg Ltd.....	Other Provider	2,791,096	-	-	2,791,096	-
5. Consolidated Edison Sol Inc.....	Other Provider	2,685,348	1,334,123	1,351,225	-	-
Total Sales, Top Five Providers.....		31,574,284	14,128,432	11,635,621	5,810,231	-
Percent of Total State Sales.....		58	73	65	35	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>2,214</b>	<b>981</b>	<b>981</b>	<b>983</b>	<b>837</b>	<b>827</b>	<b>829</b>	<b>930</b>	<b>18.8</b>	<b>6.8</b>
Coal.....	146	145	145	144	-	-	-	-	1.2	-
Petroleum.....	547	663	661	661	659	648	624	624	4.6	4.6
Natural Gas.....	302	130	131	131	131	131	157	257	2.6	1.9
Hydroelectric.....	139	44	44	47	47	47	45	47	1.2	0.3
Other Renewables <sup>1</sup> .....	*	-	-	-	-	2	2	2	*	*
Pumped Storage.....	1,080	-	-	-	-	-	-	-	9.2	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>9,581</b>	<b>12,896</b>	<b>13,021</b>	<b>12,986</b>	<b>13,095</b>	<b>12,730</b>	<b>12,677</b>	<b>12,769</b>	<b>81.2</b>	<b>93.2</b>
Coal.....	1,892	1,514	1,578	1,599	1,743	1,744	1,662	1,668	16.0	12.2
Petroleum.....	2,870	3,117	2,581	2,580	2,559	2,489	2,496	2,501	24.3	18.3
Natural Gas.....	3,088	5,414	6,026	5,971	5,958	5,658	5,682	5,719	26.2	41.8
Nuclear.....	665	685	685	685	685	685	685	685	5.6	5.0
Hydroelectric.....	123	217	216	213	212	212	212	214	1.0	1.6
Other Renewables <sup>1</sup> .....	323	305	293	296	296	299	297	302	2.7	2.2
Pumped Storage.....	620	1,643	1,643	1,643	1,643	1,643	1,643	1,680	5.3	12.3
<b>Total Electric Industry.....</b>	<b>11,796</b>	<b>13,877</b>	<b>14,002</b>	<b>13,969</b>	<b>13,932</b>	<b>13,557</b>	<b>13,505</b>	<b>13,699</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,038	1,659	1,723	1,743	1,743	1,744	1,662	1,668	17.3	12.2
Petroleum.....	3,417	3,780	3,242	3,241	3,219	3,137	3,120	3,125	29.0	22.8
Natural Gas.....	3,389	5,544	6,157	6,102	6,089	5,789	5,839	5,977	28.7	43.6
Nuclear.....	665	685	685	685	685	685	685	685	5.6	5.0
Hydroelectric.....	262	261	260	260	259	259	258	261	2.2	1.9
Other Renewables <sup>1</sup> .....	324	305	293	296	296	301	299	304	2.7	2.2
Pumped Storage.....	1,700	1,643	1,643	1,643	1,643	1,643	1,643	1,680	14.4	12.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Massachusetts</b>										
<b>Electric Utilities.....</b>	<b>4,359,511</b>	<b>2,055,622</b>	<b>1,524,169</b>	<b>1,622,208</b>	<b>942,917</b>	<b>493,885</b>	<b>507,254</b>	<b>447,912</b>	<b>10.7</b>	<b>1.1</b>
Coal.....	1,073,628	1,074,514	903,789	1,025,141	-	-	-	-	2.6	-
Petroleum.....	300,040	517,767	290,865	189,211	29,031	58,456	57,639	32,698	0.7	0.1
Natural Gas.....	865,627	234,942	98,542	118,034	326,418	250,259	175,172	124,473	2.1	0.3
Nuclear.....	1,930,943	-	-	-	-	-	-	-	4.8	-
Hydroelectric.....	544,113	228,399	230,973	289,822	587,468	185,169	270,771	285,205	1.3	0.7
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	3,672	5,536	-	*
Pumped Storage.....	-354,840	-	-	-	-	-	-	-	-0.9	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>36,215,881</b>	<b>46,329,402</b>	<b>45,976,314</b>	<b>45,893,235</b>	<b>44,654,858</b>	<b>46,582,090</b>	<b>41,998,224</b>	<b>38,518,739</b>	<b>89.3</b>	<b>98.9</b>
Coal.....	10,096,219	9,821,976	9,622,573	11,008,406	11,138,341	12,024,347	10,628,688	9,028,110	24.9	23.2
Petroleum.....	10,941,910	6,941,271	7,242,293	6,837,233	2,299,215	2,993,148	2,050,360	864,380	27.0	2.2
Natural Gas.....	10,238,772	22,188,989	20,873,179	20,251,433	22,980,258	24,674,784	21,339,262	20,863,363	25.2	53.5
Nuclear.....	2,587,483	4,977,955	5,938,600	5,475,057	5,829,658	5,119,789	5,868,639	5,396,021	6.4	13.8
Hydroelectric.....	430,455	846,783	767,308	752,128	925,177	612,313	885,040	915,871	1.1	2.4
Other Renewables <sup>1</sup> .....	2,035,569	1,253,123	1,229,900	1,258,315	1,278,829	1,240,224	1,251,706	1,223,721	5.0	3.1
Pumped Storage.....	-114,527	-510,929	-498,326	-461,643	-578,898	-830,547	-798,400	-533,636	-0.3	-1.4
Other <sup>2</sup> .....	-	810,234	800,786	772,307	782,278	748,033	772,928	760,909	-	2.0
<b>Total Electric Industry.....</b>	<b>40,575,392</b>	<b>48,385,024</b>	<b>47,500,483</b>	<b>47,515,443</b>	<b>45,597,775</b>	<b>47,075,975</b>	<b>42,505,478</b>	<b>38,966,651</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	11,169,847	10,896,490	10,526,362	12,033,547	11,138,341	12,024,347	10,628,688	9,028,110	27.5	23.2
Petroleum.....	11,241,950	7,459,038	7,533,158	7,026,444	2,328,246	3,051,604	2,107,999	897,078	27.7	2.3
Natural Gas.....	11,104,399	22,423,931	20,971,721	20,369,467	23,306,676	24,925,043	21,514,434	20,987,836	27.4	53.9
Nuclear.....	4,518,426	4,977,955	5,938,600	5,475,057	5,829,658	5,119,789	5,868,639	5,396,021	11.1	13.8
Hydroelectric.....	974,568	1,075,182	998,281	1,041,950	1,512,645	797,482	1,155,811	1,201,076	2.4	3.1
Other Renewables <sup>1</sup> .....	2,035,569	1,253,123	1,229,900	1,258,315	1,278,829	1,240,224	1,255,378	1,229,257	5.0	3.2
Pumped Storage.....	-469,367	-510,929	-498,326	-461,643	-578,898	-830,547	-798,400	-533,636	-1.2	-1.4
Other <sup>2</sup> .....	-	810,234	800,786	772,307	782,278	748,033	772,928	760,909	-	2.0

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Massachusetts</b>								
Coal (cents per million Btu) .....	173	W	197	W	278	278	294	338
Average heat value (Btu per pound).....	13,160	12,200	11,793	11,728	11,546	11,595	11,517	11,735
Average sulfur Content (percent).....	0.86	1.14	0.55	0.50	0.49	0.45	0.52	0.58
Petroleum (cents per million Btu) <sup>1</sup> .....	243	463	450	709	796	W	1,347	830
Average heat value (Btu per gallon).....	149,852	149,850	148,871	147,900	149,288	150,964	149,390	147,493
Average sulfur Content (percent).....	0.85	0.80	0.83	0.81	0.74	0.57	0.54	0.46
Natural Gas (cents per million Btu).....	265	534	639	931	731	789	1,014	489
Average heat value (Btu per cubic foot).....	1,026	1,032	1,035	1,033	1,033	1,036	1,034	1,033

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Massachusetts</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	64	48	41	43	36	38	38	30
Petroleum.....	56	34	35	33	13	13	6	3
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	*
Other <sup>2</sup> .....	2 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	123	82	76	76	49	51	44	33
<b>Nitrogen Oxide .....</b>								
Coal.....	19	15	14	14	9	8	8	6
Petroleum.....	17	10	9	7	3	2	1	1
Natural Gas.....	3	5	4	4	4	4	3	3
Other Renewables <sup>1</sup> .....	* <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	2 <sup>R</sup>	2
Other <sup>2</sup> .....	7 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	5
Total.....	46	37	33	31	22	20	19	17
<b>Carbon Dioxide .....</b>								
Coal.....	10,519 <sup>R</sup>	10,078 <sup>R</sup>	9,715 <sup>R</sup>	11,025 <sup>R</sup>	10,422 <sup>R</sup>	11,164 <sup>R</sup>	9,978 <sup>R</sup>	8,581
Petroleum.....	9,295	6,461	6,220	5,853	2,295	2,699	1,847	899
Natural Gas.....	5,676	9,633	9,051	8,889	9,900	10,670	9,108	8,896
Other <sup>2</sup> .....	1,235 <sup>R</sup>	1,268	1,299	1,296	1,293	1,227	1,330	1,307
Total.....	26,724 <sup>R</sup>	27,440 <sup>R</sup>	26,285 <sup>R</sup>	27,063 <sup>R</sup>	23,911 <sup>R</sup>	25,760 <sup>R</sup>	22,263 <sup>R</sup>	19,683

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Massachusetts</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	17,392	19,591	19,769	20,539	19,624	20,138	19,638	19,475	35.2	35.8
Commercial .....	21,489	25,648	26,020	26,415	26,237	27,148	26,582	17,775	43.5	32.7
Industrial .....	9,966	9,984	9,947	9,871	9,602	9,450	9,332	16,754	20.2	30.8
Other .....	560	NA	NA	NA	NA	NA	NA	NA	1.1	--
Transportation.....	NA	292	406	402	386	403	332	356	--	0.7
All Sectors .....	49,407	55,514	56,142	57,228	55,850	57,139	55,884	54,359	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,755	2,272	2,323	2,760	3,257	3,269	3,472	3,286	39.5	39.1
Commercial .....	1,857	2,687	2,858	3,282	4,078	4,127	4,201	2,733	41.8	32.5
Industrial.....	751	891	844	910	1,252	1,231	1,386	2,360	16.9	28.1
Other.....	77	NA	NA	NA	NA	NA	NA	NA	1.7	--
Transportation.....	NA	12	19	19	41	37	31	22	--	0.3
All Sectors .....	4,439	5,862	6,045	6,971	8,628	8,664	9,091	8,400	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	10.09	11.60	11.75	13.44	16.60	16.23	17.68	16.87	--	--
Commercial .....	8.64	10.48	10.99	12.42	15.54	15.20	15.80	15.37	--	--
Industrial.....	7.53	8.93	8.48	9.22	13.04	13.03	14.85	14.08	--	--
Other.....	13.73	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	4.09	4.65	4.80	10.68	9.24	9.39	6.23	--	--
All Sectors .....	8.99	10.56	10.77	12.18	15.45	15.16	16.27	15.45	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	5	40	NA	NA	1	23	6	75
Number of Retail Customers .....	2,282,441	395,792	NA	NA	6	375,427	NA	3,053,666
Retail Sales (thousand megawatthours).....	21,880	7,545	NA	NA	309	24,625	NA	54,359
Percentage of Retail Sales .....	40.25	13.88	--	--	0.57	45.30	--	100.00
Revenue from Retail Sales (million dollars) .....	3,724	1,018	NA	NA	37	2,448	1,173	8,400
Percentage of Revenue .....	44.33	12.12	--	--	0.44	29.15	13.97	100.00
Average Retail Price (cents/kWh).....	17.02	13.49	NA	NA	11.89	9.94	4.76	15.45

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Massachusetts</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	4,360	2,056	1,524	1,622	943	494	507	448
Independent Power Producers .....	29,003	40,102	41,036	42,122	41,847	43,406	39,846	35,883
Combined Heat and Power, Electric .....	6,333	5,378	4,053	2,896	1,938	2,400	1,444	1,918
<b>Electric Power Sector Generation Subtotal</b> .....	<b>39,695</b>	<b>47,536</b>	<b>46,614</b>	<b>46,640</b>	<b>44,728</b>	<b>46,300</b>	<b>41,797</b>	<b>38,249</b>
Combined Heat and Power, Commercial .....	428	514	573	590	574	503	489	525
Combined Heat and Power, Industrial .....	453	335	314	286	296	273	219	193
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>880</b>	<b>849</b>	<b>887</b>	<b>876</b>	<b>869</b>	<b>776</b>	<b>709</b>	<b>718</b>
<b>Total Net Generation</b> .....	<b>40,575</b>	<b>48,385</b>	<b>47,500</b>	<b>47,515</b>	<b>45,598</b>	<b>47,076</b>	<b>42,505</b>	<b>38,967</b>
<b>Total International Imports</b> .....	<b>1,934</b>	<b>274</b>	<b>512</b>	<b>2,577<sup>R</sup></b>	<b>697</b>	<b>935</b>	<b>4,177</b>	<b>4,911</b>
<b>Total Supply</b> .....	<b>42,510</b>	<b>48,659</b>	<b>48,013</b>	<b>50,092<sup>R</sup></b>	<b>46,294</b>	<b>48,011</b>	<b>46,683</b>	<b>43,878</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	47,821	45,457	43,287	41,357	34,795	32,996	31,546	29,425
Energy-Only Providers .....	1,587	9,739	12,551	15,854	21,055	23,841	24,025	24,625
Facility Direct Retail Sales <sup>1</sup> .....	-	318	304	17	-	302	313	309
<b>Total Electric Industry Retail Sales</b> .....	<b>49,407</b>	<b>55,514</b>	<b>56,142</b>	<b>57,228</b>	<b>55,850</b>	<b>57,139</b>	<b>55,884</b>	<b>54,359</b>
<b>Direct Use</b> .....	<b>4,303</b>	<b>2,453</b>	<b>2,456</b>	<b>1,164</b>	<b>912</b>	<b>751<sup>R</sup></b>	<b>953<sup>R</sup></b>	<b>659</b>
<b>Total International Exports</b> .....	<b>*</b>	<b>61</b>	<b>32</b>	<b>332<sup>R</sup></b>	<b>116</b>	<b>201</b>	<b>328<sup>R</sup></b>	<b>339</b>
<b>Estimated Losses</b> .....	<b>3,581</b>	<b>2,281</b>	<b>2,211</b>	<b>2,326<sup>R</sup></b>	<b>4,000</b>	<b>4,193<sup>R</sup></b>	<b>3,497<sup>R</sup></b>	<b>2,557</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-14,782</b>	<b>-11,651</b>	<b>-12,827</b>	<b>-10,958<sup>R</sup></b>	<b>-14,584</b>	<b>-14,274<sup>R</sup></b>	<b>-13,981<sup>R</sup></b>	<b>-14,036</b>
<b>Total Disposition</b> .....	<b>42,510<sup>R</sup></b>	<b>48,659<sup>R</sup></b>	<b>48,013<sup>R</sup></b>	<b>50,092<sup>R</sup></b>	<b>46,294<sup>R</sup></b>	<b>48,011<sup>R</sup></b>	<b>46,683<sup>R</sup></b>	<b>43,878</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.74</b>	<b>0.81</b>	<b>0.79</b>	<b>0.82<sup>R</sup></b>	<b>0.76</b>	<b>0.77</b>	<b>0.77<sup>R</sup></b>	<b>0.76</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Michigan</b>		
NERC Region(s).....		<b>MRO/RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>30,308</b>	<b>10</b>
Electric Utilities.....	21,759	10
Independent Power Producers & Combined Heat and Power.....	8,549	12
Net Generation (megawatthours).....	<b>101,202,605</b>	<b>14</b>
Electric Utilities.....	82,787,341	14
Independent Power Producers & Combined Heat and Power.....	18,415,264	18
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	288	6
Nitrogen Oxide.....	91	6
Carbon Dioxide.....	73,589	10
Sulfur Dioxide (lbs/MWh) .....	6.3	7
Nitrogen Oxide (lbs/MWh) .....	2.0	16
Carbon Dioxide (lbs/MWh).....	1,603	17
Total Retail Sales (megawatthours).....	<b>98,121,014</b>	<b>12</b>
Full Service Provider Sales (megawatthours) .....	94,074,304	11
Energy-Only Provider Sales (megawatthours).....	4,046,710	13
Direct Use (megawatthours) .....	<b>1,792,173</b>	<b>19</b>
Average Retail Price (cents/kWh).....	<b>9.40</b>	<b>20</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Michigan</b>			
1. Monroe.....	Coal	Detroit Edison Co	3,129
2. Donald C Cook.....	Nuclear	Indiana Michigan Power Co	2,069
3. Ludington.....	Pumped Storage	Consumers Energy Co	1,872
4. Midland Cogeneration Venture .....	Gas	Midland Cogeneration Venture	1,845
5. Dan E Karn .....	Coal	Consumers Energy Co	1,791
6. Belle River.....	Coal	Detroit Edison Co	1,509
7. J H Campbell .....	Coal	Consumers Energy Co	1,453
8. St Clair.....	Coal	Detroit Edison Co	1,393
9. Fermi.....	Nuclear	Detroit Edison Co	1,157
10. Covert Generating Project .....	Gas	New Covert Generating Company LLC	1,040

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Detroit Edison Co.....	Investor-Owned	42,747,883	14,625,206	18,190,402	9,932,275	-
2. Consumers Energy Co.....	Investor-Owned	33,114,933	12,385,603	11,438,963	9,290,367	-
3. Indiana Michigan Power Co.....	Investor-Owned	2,818,810	1,218,332	815,956	784,522	-
4. Wisconsin Electric Power Co.....	Investor-Owned	2,243,877	167,887	150,279	1,925,711	-
5. Lansing City of.....	Public	2,162,938	572,786	1,222,251	367,901	-
Total Sales, Top Five Providers.....		83,088,441	28,969,814	31,817,851	22,300,776	-
Percent of Total State Sales.....		85	88	84	81	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Michigan</b>										
<b>Electric Utilities.....</b>	<b>22,374</b>	<b>23,345</b>	<b>23,314</b>	<b>23,029</b>	<b>22,734</b>	<b>21,894</b>	<b>21,885</b>	<b>21,759</b>	<b>88.2</b>	<b>71.8</b>
Coal.....	11,573	11,636	11,623	11,633	11,534	11,533	11,543	11,431	45.6	37.7
Petroleum.....	2,634	1,685	1,649	1,647	1,397	616	610	612	10.4	2.0
Natural Gas.....	2,131	3,964	3,982	3,669	3,695	4,461	4,447	4,446	8.4	14.7
Nuclear.....	3,921	3,971	3,971	3,982	4,006	3,191	3,191	3,175	15.5	10.5
Hydroelectric.....	243	218	217	225	229	221	222	223	1.0	0.7
Other Renewables <sup>1</sup> .....	1	-	-	-	-	-	-	-	*	-
Pumped Storage.....	1,872	1,872	1,872	1,872	1,872	1,872	1,872	1,872	7.4	6.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,002</b>	<b>7,104</b>	<b>7,133</b>	<b>7,393</b>	<b>7,456</b>	<b>8,411</b>	<b>8,534</b>	<b>8,549</b>	<b>11.8</b>	<b>28.2</b>
Coal.....	362	354	354	349	325	378	378	362	1.4	1.2
Petroleum.....	8	52	70	27	102	57	57	72	*	0.2
Natural Gas.....	2,201	6,303	6,315	6,618	6,628	6,781	6,771	6,768	8.7	22.3
Other Gases <sup>2</sup> .....	-	-	-	5	12	-	-	-	-	-
Nuclear.....	-	-	-	-	-	778	778	778	-	2.6
Hydroelectric.....	26	27	27	28	28	28	28	28	0.1	0.1
Other Renewables <sup>1</sup> .....	406	368	367	367	361	390	523	541	1.6	1.8
<b>Total Electric Industry.....</b>	<b>25,376</b>	<b>30,450</b>	<b>30,447</b>	<b>30,422</b>	<b>30,189</b>	<b>30,305</b>	<b>30,419</b>	<b>30,308</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	11,936	11,989	11,976	11,982	11,860	11,910	11,921	11,794	47.0	38.9
Petroleum.....	2,641	1,737	1,719	1,675	1,499	673	667	684	10.4	2.3
Natural Gas.....	4,331	10,268	10,296	10,286	10,322	11,242	11,218	11,214	17.1	37.0
Other Gases <sup>2</sup> .....	-	-	-	5	12	-	-	-	-	-
Nuclear.....	3,921	3,971	3,971	3,982	4,006	3,969	3,969	3,953	15.5	13.0
Hydroelectric.....	268	245	245	253	257	249	250	251	1.1	0.8
Other Renewables <sup>1</sup> .....	406	368	367	367	361	390	523	541	1.6	1.8
Pumped Storage.....	1,872	1,872	1,872	1,872	1,872	1,872	1,872	1,872	7.4	6.2

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Michigan</b>										
<b>Electric Utilities.....</b>	<b>87,874,695</b>	<b>96,634,055</b>	<b>99,608,512</b>	<b>104,830,689</b>	<b>97,373,706</b>	<b>96,785,842</b>	<b>94,503,953</b>	<b>82,787,341</b>	<b>85.1</b>	<b>81.8</b>
Coal.....	69,118,017	66,448,916	67,253,690	69,158,736	66,654,737	69,406,550	68,421,489	65,867,455	66.9	65.1
Petroleum.....	1,282,696	883,847	714,881	788,563	272,106	445,915	281,604	215,189	1.2	0.2
Natural Gas.....	2,448,449	1,098,627	735,011	1,717,091	982,534	1,079,596	784,967	563,510	2.4	0.6
Other Gases <sup>1</sup> .....	-	-	1,082	-	18,854	105,130	-	-	-	-
Nuclear.....	14,590,711	27,953,563	30,561,961	32,871,574	29,066,165	25,690,938	24,649,692	15,732,299	14.1	15.5
Hydroelectric.....	1,367,296	1,242,987	1,420,178	1,355,963	1,381,242	1,146,768	1,247,863	1,234,066	1.3	1.2
Other Renewables <sup>2</sup> .....	-	-	-	-	-	54	63	11	-	*
Pumped Storage.....	-932,474	-1,017,246	-1,112,984	-1,106,241	-1,039,210	-1,129,241	-915,502	-856,864	-0.9	-0.8
Other <sup>3</sup> .....	-	23,361	34,693	45,003	37,278	40,131	33,777	31,676	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>15,365,020</b>	<b>14,713,005</b>	<b>18,878,757</b>	<b>16,789,082</b>	<b>15,183,032</b>	<b>22,524,095</b>	<b>20,485,853</b>	<b>18,415,264</b>	<b>14.9</b>	<b>18.2</b>
Coal.....	1,286,977	1,328,567	1,352,329	1,164,240	1,125,424	1,404,048	1,433,947	980,229	1.2	1.0
Petroleum.....	201,658	180,046	181,528	88,996	129,781	252,610	175,935	184,060	0.2	0.2
Natural Gas.....	11,065,306	10,275,917	13,812,692	12,046,801	10,427,421	12,061,388	8,817,069	7,856,040	10.7	7.8
Other Gases <sup>1</sup> .....	153	2,193	597,665	372,119	393,493	177,284	264,407	202,510	*	0.2
Nuclear.....	-	-	-	-	-	5,826,015	6,834,736	6,118,710	-	6.0
Hydroelectric.....	91,037	142,837	119,406	105,745	139,111	123,221	116,515	137,860	0.1	0.1
Other Renewables <sup>2</sup> .....	2,719,872	2,497,694	2,558,448	2,494,323	2,442,559	2,416,692	2,591,079	2,623,173	2.6	2.6
Other <sup>3</sup> .....	17	285,751	256,688	516,858	525,244	262,835	252,165	312,682	*	0.3
<b>Total Electric Industry.....</b>	<b>103,239,715</b>	<b>111,347,060</b>	<b>118,487,269</b>	<b>121,619,771</b>	<b>112,556,739</b>	<b>119,309,936</b>	<b>114,989,806</b>	<b>101,202,605</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	70,404,994	67,777,483	68,606,019	70,322,976	67,780,161	70,810,599	69,855,436	66,847,683	68.2	66.1
Petroleum.....	1,484,354	1,063,893	896,409	877,559	401,887	698,525	457,538	399,249	1.4	0.4
Natural Gas.....	13,513,755	11,374,544	14,547,703	13,763,892	11,409,955	13,140,984	9,602,037	8,419,551	13.1	8.3
Other Gases <sup>1</sup> .....	153	2,193	598,747	372,119	412,347	282,414	264,407	202,510	*	0.2
Nuclear.....	14,590,711	27,953,563	30,561,961	32,871,574	29,066,165	31,516,953	31,484,428	21,851,009	14.1	21.6
Hydroelectric.....	1,458,333	1,385,824	1,539,584	1,461,708	1,520,353	1,269,989	1,364,378	1,371,926	1.4	1.4
Other Renewables <sup>2</sup> .....	2,719,872	2,497,694	2,558,448	2,494,323	2,442,559	2,416,747	2,591,141	2,623,184	2.6	2.6
Pumped Storage.....	-932,474	-1,017,246	-1,112,984	-1,106,241	-1,039,210	-1,129,241	-915,502	-856,864	-0.9	-0.8
Other <sup>3</sup> .....	17	309,112	291,381	561,861	562,522	302,966	285,942	344,358	*	0.3

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Michigan</b>								
Coal (cents per million Btu) .....	131	134	139	158	168	172	197	207
Average heat value (Btu per pound).....	10,487	10,123	9,967	10,021	9,975	9,920	9,902	9,751
Average sulfur Content (percent).....	0.62	0.57	0.53	0.56	0.56	0.54	0.54	0.49
Petroleum (cents per million Btu) <sup>1</sup> .....	257	W	W	W	W	W	1,057	531
Average heat value (Btu per gallon).....	136,595	146,845	146,540	145,714	144,829	144,798	138,424	138,974
Average sulfur Content (percent).....	1.44	1.67	1.45	1.74	1.74	1.84	3.28	3.38
Natural Gas (cents per million Btu).....	252	386	436	556	601	656	861	453
Average heat value (Btu per cubic foot).....	608	1,015	1,018	1,013	1,009	1,014	1,013	1,015

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Michigan</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	369	335	322	329	315	325	329	267
Petroleum.....	25	24	24	26	6	23	13	15
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	-	-	-	*	-	-	-	*
Other Renewables <sup>1</sup> .....	5 <sup>R</sup>	4	4	4	4 <sup>R</sup>	4	4 <sup>R</sup>	4
Other <sup>2</sup> .....	2	1	1	1	1	1	1	2
Total.....	401	364	351	360	327	353	348	288
<b>Nitrogen Oxide .....</b>								
Coal.....	167	115	106	104	96	99	98	75
Petroleum.....	6	4	4	4	1	4	2	2
Natural Gas.....	17	6	5	5	5	5	4	4
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	8 <sup>R</sup>	7 <sup>R</sup>	8 <sup>R</sup>	8 <sup>R</sup>	8 <sup>R</sup>	8 <sup>R</sup>	9 <sup>R</sup>	9
Other <sup>2</sup> .....	3 <sup>R</sup>	3 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2
Total.....	200	134	124	123	113	117	115	91
<b>Carbon Dioxide .....</b>								
Coal.....	70,221 <sup>R</sup>	66,103 <sup>R</sup>	68,971 <sup>R</sup>	70,913 <sup>R</sup>	68,456 <sup>R</sup>	71,516 <sup>R</sup>	70,823 <sup>R</sup>	67,345
Petroleum.....	2,010	1,494	1,433	908	490	1,234	791	803
Natural Gas.....	8,713	6,004	7,613	7,488	7,212	6,919	5,275	4,789
Other Gases.....	*	-	-	-	-	-	-	-
Other <sup>2</sup> .....	527 <sup>R</sup>	592	555	548	559	559	578	651
Total.....	81,471 <sup>R</sup>	74,192 <sup>R</sup>	78,572 <sup>R</sup>	79,856 <sup>R</sup>	76,718 <sup>R</sup>	80,228 <sup>R</sup>	77,468 <sup>R</sup>	73,589

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Michigan</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	30,661	33,669	33,104	36,095	34,622	35,366	34,297	32,854	29.5	33.5
Commercial .....	35,096	35,391	38,632	39,600	39,299	40,047	38,974	37,870	33.8	38.6
Industrial .....	37,276	39,813	34,867	34,745	34,093	33,879	32,505	27,391	35.8	27.9
Other .....	948	NA	NA	NA	NA	NA	NA	NA	0.9	--
Transportation.....	NA	3	3	5	4	5	5	5	--	*
All Sectors .....	103,981	108,877	106,606	110,445	108,018	109,297	105,781	98,121	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	2,676	2,813	2,759	3,033	3,382	3,612	3,685	3,813	36.2	41.3
Commercial .....	2,755	2,672	2,925	3,105	3,345	3,514	3,584	3,499	37.2	37.9
Industrial.....	1,873	1,976	1,717	1,850	2,061	2,192	2,190	1,914	25.3	20.7
Other.....	96	NA	NA	NA	NA	NA	NA	NA	1.3	--
Transportation.....	NA	*	*	1	*	*	1	1	--	*
All Sectors .....	7,401	7,461	7,401	7,988	8,788	9,318	9,459	9,226	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.73	8.35	8.33	8.40	9.77	10.21	10.75	11.60	--	--
Commercial .....	7.85	7.55	7.57	7.84	8.51	8.77	9.20	9.24	--	--
Industrial.....	5.03	4.96	4.92	5.32	6.05	6.47	6.74	6.99	--	--
Other.....	10.17	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	8.21	7.89	13.07	10.06	9.76	11.83	10.79	--	--
All Sectors .....	7.12	6.85	6.94	7.23	8.14	8.53	8.94	9.40	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	9	41	NA	10	4	12	2	78
Number of Retail Customers .....	4,184,207	304,854	NA	294,809	7	3,526	NA	4,787,403
Retail Sales (thousand megawatthours).....	83,132	7,314	NA	3,208	420	4,047	NA	98,121
Percentage of Retail Sales .....	84.72	7.45	--	3.27	0.43	4.12	--	100.00
Revenue from Retail Sales (million dollars) .....	7,867	636	NA	361	23	271	68	9,226
Percentage of Revenue .....	85.27	6.89	--	3.92	0.25	2.94	0.74	100.00
Average Retail Price (cents/kWh).....	9.46	8.69	NA	11.26	5.39	6.70	1.68	9.40

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Michigan</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	87,875	96,634	99,609	104,831	97,374	96,786	94,504	82,787
Independent Power Producers .....	1,723	2,302	2,560	4,337	3,859	11,028	10,954	10,449
Combined Heat and Power, Electric .....	11,080	9,917	13,904	10,161	9,077	9,327	7,350	6,204
<b>Electric Power Sector Generation Subtotal</b> .....	<b>100,678</b>	<b>108,853</b>	<b>116,073</b>	<b>119,329</b>	<b>110,310</b>	<b>117,141</b>	<b>112,807</b>	<b>99,440</b>
Combined Heat and Power, Commercial .....	684	504	536	535	515	627	535	604
Combined Heat and Power, Industrial.....	1,878	1,990	1,878	1,756	1,731	1,542	1,647	1,159
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>2,562</b>	<b>2,494</b>	<b>2,414</b>	<b>2,291</b>	<b>2,246</b>	<b>2,169</b>	<b>2,182</b>	<b>1,762</b>
<b>Total Net Generation</b> .....	<b>103,240</b>	<b>111,347</b>	<b>118,487</b>	<b>121,620</b>	<b>112,557</b>	<b>119,310</b>	<b>114,990</b>	<b>101,203</b>
<b>Total International Imports</b> .....	<b>889</b>	<b>1,253</b>	<b>2,054</b>	<b>1,681</b>	<b>357</b>	<b>1,682</b>	<b>6,305</b>	<b>7,576</b>
<b>Total Supply</b> .....	<b>104,129</b>	<b>112,600</b>	<b>120,542</b>	<b>123,301</b>	<b>112,914</b>	<b>120,992</b>	<b>121,295</b>	<b>108,779</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	103,480	96,659	92,097	98,603	101,899	104,526	102,159	93,654
Energy-Only Providers.....	501	10,112	13,991	11,334	5,619	4,293	3,161	4,047
Facility Direct Retail Sales <sup>1</sup> .....	-	2,106	518	508	499	478	461	420
<b>Total Electric Industry Retail Sales</b> .....	<b>103,981</b>	<b>108,877</b>	<b>106,606</b>	<b>110,445</b>	<b>108,018</b>	<b>109,297</b>	<b>105,781</b>	<b>98,121</b>
<b>Direct Use</b> .....	<b>2,973</b>	<b>2,919</b>	<b>2,922</b>	<b>2,584</b>	<b>2,354</b>	<b>2,005<sup>R</sup></b>	<b>2,144<sup>R</sup></b>	<b>1,792</b>
<b>Total International Exports</b> .....	<b>1,108</b>	<b>4,818</b>	<b>5,258</b>	<b>4,411<sup>R</sup></b>	<b>2,474</b>	<b>2,888</b>	<b>4,001</b>	<b>1,939</b>
<b>Estimated Losses</b> .....	<b>7,537</b>	<b>6,208</b>	<b>7,868</b>	<b>7,941<sup>R</sup></b>	<b>8,259</b>	<b>9,411<sup>R</sup></b>	<b>9,031<sup>R</sup></b>	<b>8,284</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-11,471</b>	<b>-10,222</b>	<b>-2,113</b>	<b>-2,081<sup>R</sup></b>	<b>-8,190</b>	<b>-2,609<sup>R</sup></b>	<b>338<sup>R</sup></b>	<b>-1,357</b>
<b>Total Disposition</b> .....	<b>104,129<sup>R</sup></b>	<b>112,600<sup>R</sup></b>	<b>120,542<sup>R</sup></b>	<b>123,301<sup>R</sup></b>	<b>112,914<sup>R</sup></b>	<b>120,992<sup>R</sup></b>	<b>121,295<sup>R</sup></b>	<b>108,779</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.90</b>	<b>0.92</b>	<b>0.98</b>	<b>0.98</b>	<b>0.93</b>	<b>0.98</b>	<b>1.00</b>	<b>0.99</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Minnesota</b>		
NERC Region(s).....		<b>MRO</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>14,626</b>	<b>27</b>
Electric Utilities.....	11,639	23
Independent Power Producers & Combined Heat and Power.....	2,987	32
Net Generation (megawatthours).....	<b>52,491,849</b>	<b>27</b>
Electric Utilities.....	44,442,211	21
Independent Power Producers & Combined Heat and Power.....	8,049,638	32
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	65	26
Nitrogen Oxide .....	49	21
Carbon Dioxide.....	33,689	28
Sulfur Dioxide (lbs/MWh) .....	2.7	25
Nitrogen Oxide (lbs/MWh) .....	2.1	15
Carbon Dioxide (lbs/MWh).....	1,415	21
Total Retail Sales (megawatthours).....	<b>64,004,463</b>	<b>23</b>
Full Service Provider Sales (megawatthours) .....	64,004,463	22
Direct Use (megawatthours) .....	<b>1,085,600</b>	<b>23</b>
Average Retail Price (cents/kWh).....	<b>8.14</b>	<b>32</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Minnesota</b>			
1. Sherburne County.....	Coal	Northern States Power Co - Minnesota	2,278
2. Prairie Island.....	Nuclear	Northern States Power Co - Minnesota	1,096
3. Clay Boswell.....	Coal	Minnesota Power Inc	917
4. Black Dog.....	Coal	Northern States Power Co - Minnesota	580
5. Monticello.....	Nuclear	Northern States Power Co - Minnesota	572
6. High Bridge .....	Gas	Northern States Power Co - Minnesota	566
7. Allen S King .....	Coal	Northern States Power Co - Minnesota	510
8. Blue Lake.....	Gas	Northern States Power Co - Minnesota	490
9. Lakefield Junction .....	Gas	Great River Energy	489
10. Riverside.....	Gas	Northern States Power Co - Minnesota	478

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Northern States Power Co - Minnesota.....	Investor-Owned	30,576,623	8,454,910	13,570,942	8,528,881	21,890
2. Minnesota Power Inc.....	Investor-Owned	6,417,331	1,075,116	1,290,863	4,051,352	-
3. Otter Tail Power Co.....	Investor-Owned	2,127,211	575,748	1,026,829	524,634	-
4. Connexus Energy.....	Cooperative	1,925,448	1,137,238	708,932	79,278	-
5. Dakota Electric Association.....	Cooperative	1,823,217	908,580	54,345	860,292	-
Total Sales, Top Five Providers.....		42,869,830	12,151,592	16,651,911	14,044,437	21,890
Percent of Total State Sales.....		67	55	75	72	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Minnesota</b>										
<b>Electric Utilities.....</b>	<b>8,987</b>	<b>10,162</b>	<b>10,179</b>	<b>10,543</b>	<b>10,458</b>	<b>10,719</b>	<b>11,432</b>	<b>11,639</b>	<b>88.5</b>	<b>79.6</b>
Coal.....	5,605	5,342	5,260	5,087	5,083	5,048	5,077	4,667	55.2	31.9
Petroleum.....	1,013	669	699	711	718	728	746	759	10.0	5.2
Natural Gas.....	459	2,276	2,336	2,852	2,719	2,974	3,528	4,118	4.5	28.2
Nuclear.....	1,627	1,613	1,613	1,617	1,668	1,668	1,668	1,668	16.0	11.4
Hydroelectric.....	136	133	133	133	132	133	133	133	1.3	0.9
Other Renewables <sup>1</sup> .....	146	129	138	143	137	167	281	294	1.4	2.0
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,170</b>	<b>1,323</b>	<b>1,372</b>	<b>1,562</b>	<b>2,194</b>	<b>2,171</b>	<b>2,805</b>	<b>2,987</b>	<b>11.5</b>	<b>20.4</b>
Coal.....	345	358	361	358	361	159	159	159	3.4	1.1
Petroleum.....	37	26	27	28	28	36	36	42	0.4	0.3
Natural Gas.....	297	306	305	305	805	605	1,003	1,007	2.9	6.9
Hydroelectric.....	64	43	43	43	43	43	61	61	0.6	0.4
Other Renewables <sup>1</sup> .....	427	579	626	817	946	1,315	1,534	1,705	4.2	11.7
Other <sup>2</sup> .....	-	11	11	11	11	13	13	13	-	0.1
<b>Total Electric Industry.....</b>	<b>10,157</b>	<b>11,485</b>	<b>11,551</b>	<b>12,105</b>	<b>12,651</b>	<b>12,890</b>	<b>14,237</b>	<b>14,626</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,950	5,701	5,621	5,446	5,444	5,207	5,235	4,826	58.6	33.0
Petroleum.....	1,051	696	726	739	746	764	782	801	10.3	5.5
Natural Gas.....	756	2,581	2,641	3,157	3,524	3,579	4,531	5,126	7.4	35.0
Nuclear.....	1,627	1,613	1,613	1,617	1,668	1,668	1,668	1,668	16.0	11.4
Hydroelectric.....	200	176	176	176	175	176	194	194	2.0	1.3
Other Renewables <sup>1</sup> .....	574	708	763	960	1,083	1,483	1,815	1,999	5.6	13.7
Other <sup>2</sup> .....	-	11	11	11	11	13	13	13	-	0.1

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Minnesota</b>										
<b>Electric Utilities.....</b>	<b>44,153,826</b>	<b>49,576,276</b>	<b>47,232,462</b>	<b>46,791,349</b>	<b>46,710,674</b>	<b>47,793,039</b>	<b>46,758,314</b>	<b>44,442,211</b>	<b>91.0</b>	<b>84.7</b>
Coal.....	28,366,977	33,157,032	31,477,117	30,514,512	30,600,302	31,199,099	30,771,207	28,582,304	58.5	54.5
Petroleum.....	674,398	845,239	752,362	752,774	484,235	362,765	211,633	49,502	1.4	0.1
Natural Gas.....	522,633	1,072,867	923,557	1,706,322	1,629,343	2,143,250	1,723,799	2,046,949	1.1	3.9
Other Gases <sup>1</sup> .....	-	-	-	-	-	25,844	26,520	24,112	-	*
Nuclear.....	13,315,562	13,413,828	13,295,502	12,835,219	13,183,418	13,103,000	12,996,838	12,393,425	27.4	23.6
Hydroelectric.....	857,323	686,227	549,598	574,680	426,960	504,387	554,068	529,995	1.8	1.0
Other Renewables <sup>2</sup> .....	416,933	220,598	137,351	237,425	231,429	291,311	321,604	683,189	0.9	1.3
Other <sup>3</sup> .....	-	180,485	96,975	170,417	154,987	163,383	152,645	132,735	-	0.3
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>4,365,553</b>	<b>5,474,720</b>	<b>5,131,665</b>	<b>6,227,645</b>	<b>6,527,115</b>	<b>6,684,608</b>	<b>8,005,046</b>	<b>8,049,638</b>	<b>9.0</b>	<b>15.3</b>
Coal.....	1,821,148	2,498,497	2,523,091	2,435,333	2,470,149	991,273	984,046	744,922	3.8	1.4
Petroleum.....	25,749	27,826	31,088	23,535	9,953	41,834	19,984	15,757	0.1	*
Natural Gas.....	904,639	771,569	534,027	1,000,944	931,454	1,699,226	1,142,047	799,534	1.9	1.5
Hydroelectric.....	321,610	128,346	188,713	200,049	144,770	149,435	172,993	279,093	0.7	0.5
Other Renewables <sup>2</sup> .....	1,292,407	1,900,033	1,659,699	2,414,683	2,827,455	3,641,327	5,529,278	6,053,468	2.7	11.5
Other <sup>3</sup> .....	-	148,450	195,047	153,101	143,334	161,512	156,697	156,864	-	0.3
<b>Total Electric Industry.....</b>	<b>48,519,379</b>	<b>55,050,996</b>	<b>52,364,127</b>	<b>53,018,995</b>	<b>53,237,789</b>	<b>54,477,646</b>	<b>54,763,360</b>	<b>52,491,849</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	30,188,125	35,655,529	34,000,208	32,949,845	33,070,451	32,190,373	31,755,253	29,327,226	62.2	55.9
Petroleum.....	700,147	873,065	783,450	776,309	494,188	404,599	231,617	65,259	1.4	0.1
Natural Gas.....	1,427,272	1,844,436	1,457,584	2,707,267	2,560,797	3,842,477	2,865,846	2,846,483	2.9	5.4
Other Gases <sup>1</sup> .....	-	-	-	-	-	25,844	26,520	24,112	-	*
Nuclear.....	13,315,562	13,413,828	13,295,502	12,835,219	13,183,418	13,103,000	12,996,838	12,393,425	27.4	23.6
Hydroelectric.....	1,178,933	814,573	738,311	774,729	571,730	653,822	727,061	809,088	2.4	1.5
Other Renewables <sup>2</sup> .....	1,709,340	2,120,631	1,797,050	2,652,108	3,058,884	3,932,638	5,850,883	6,736,657	3.5	12.8
Other <sup>3</sup> .....	-	328,935	292,021	323,518	298,320	324,895	309,342	289,599	-	0.6

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Minnesota</b>								
Coal (cents per million Btu) .....	110	W	W	W	W	W	169	164
Average heat value (Btu per pound).....	8,883	8,895	8,914	8,909	8,911	8,853	8,902	8,878
Average sulfur Content (percent).....	0.44	0.46	0.44	0.44	0.44	0.45	0.46	0.46
Petroleum (cents per million Btu) <sup>1</sup> .....	76	W	W	W	W	444	W	1,210
Average heat value (Btu per gallon).....	71,055	133,093	134,967	133,848	134,976	132,929	136,357	139,955
Average sulfur Content (percent).....	5.51	5.72	5.38	5.45	5.99	4.84	3.54	0.30
Natural Gas (cents per million Btu).....	266	W	W	W	W	W	891	598
Average heat value (Btu per cubic foot).....	1,011	1,007	1,008	1,012	1,008	1,018	1,015	1,011

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Minnesota</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	98	83	86	82	80	78	76	60
Petroleum.....	*	27	17	15	10	7	6	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	3 <sup>R</sup>	3	4	4	4	4	4 <sup>R</sup>	4
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	102	113	108	101	94	89	86	65
<b>Nitrogen Oxide .....</b>								
Coal.....	82	87	83	76	76	74	61	41
Petroleum.....	1	3	3	2	2	2	1	*
Natural Gas.....	2	2	2	3	3	3	2	2
Other Gases.....	-	-	-	-	-	1	1	1
Other Renewables <sup>1</sup> .....	3 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	4
Other <sup>2</sup> .....	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2
Total.....	90	97	92	86	85	84	69	49
<b>Carbon Dioxide .....</b>								
Coal.....	32,688 <sup>R</sup>	37,704 <sup>R</sup>	36,629 <sup>R</sup>	36,409 <sup>R</sup>	35,516 <sup>R</sup>	35,180 <sup>R</sup>	34,403 <sup>R</sup>	31,567
Petroleum.....	844	890	834	806	550	420	268	71
Natural Gas.....	1,295	1,227	1,127	1,796	1,646	2,205	1,626	1,570
Other <sup>2</sup> .....	166 <sup>R</sup>	492	364	505	472	516	524	482
Total.....	34,992 <sup>R</sup>	40,314 <sup>R</sup>	38,954 <sup>R</sup>	39,516 <sup>R</sup>	38,183 <sup>R</sup>	38,321 <sup>R</sup>	36,821 <sup>R</sup>	33,689

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Minnesota</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	17,998	20,638	20,507	21,743	21,909	22,646	22,355	22,034	31.4	34.4
Commercial .....	10,909	20,533	20,407	21,985	22,175	22,523	22,604	22,311	19.0	34.9
Industrial .....	27,764	21,916	22,415	22,266	22,664	23,041	23,810	19,637	48.4	30.7
Other .....	729	NA	NA	NA	NA	NA	NA	NA	1.3	--
Transportation.....	NA	NA	11	25	21	21	22	22	--	*
All Sectors .....	57,399	63,087	63,340	66,019	66,770	68,231	68,792	64,004	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,334	1,579	1,624	1,799	1,905	2,078	2,176	2,212	39.9	42.5
Commercial .....	688	1,257	1,287	1,448	1,556	1,684	1,781	1,766	20.6	33.9
Industrial.....	1,267	955	1,038	1,118	1,198	1,311	1,399	1,229	37.9	23.6
Other.....	55	NA	NA	NA	NA	NA	NA	NA	1.6	--
Transportation.....	NA	NA	1	2	2	2	2	2	--	*
All Sectors .....	3,344	3,791	3,950	4,366	4,662	5,075	5,358	5,209	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.41	7.65	7.92	8.28	8.70	9.18	9.74	10.04	--	--
Commercial .....	6.31	6.12	6.31	6.59	7.02	7.48	7.88	7.92	--	--
Industrial.....	4.56	4.36	4.63	5.02	5.29	5.69	5.87	6.26	--	--
Other.....	7.49	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	6.75	6.21	7.95	8.27	8.04	7.73	--	--
All Sectors .....	5.83	6.01	6.24	6.61	6.98	7.44	7.79	8.14	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Minnesota</b>								
Number of Entities.....	5	124	1	46	4	NA	NA	180
Number of Retail Customers .....	1,461,216	360,750	4	751,758	8	NA	NA	2,573,736
Retail Sales (thousand megawatthours).....	39,956	9,302	58	14,081	606	NA	NA	64,004
Percentage of Retail Sales .....	62.43	14.53	0.09	22.00	0.95	--	--	100.00
Revenue from Retail Sales (million dollars) .....	3,076	786	2	1,315	31	NA	NA	5,209
Percentage of Revenue .....	59.04	15.08	0.03	25.24	0.60	--	--	100.00
Average Retail Price (cents/kWh).....	7.70	8.45	2.63	9.34	5.18	NA	NA	8.14

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Minnesota</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	44,154	49,576	47,232	46,791	46,711	47,793	46,758	44,442
Independent Power Producers .....	832	2,858	2,792	3,332	4,136	3,774	5,472	5,851
Combined Heat and Power, Electric .....	606	697	309	938	639	1,143	784	628
<b>Electric Power Sector Generation Subtotal</b> .....	<b>45,592</b>	<b>53,132</b>	<b>50,333</b>	<b>51,062</b>	<b>51,485</b>	<b>52,710</b>	<b>53,014</b>	<b>50,921</b>
Combined Heat and Power, Commercial .....	131	117	107	108	104	97	98	130
Combined Heat and Power, Industrial.....	2,797	1,802	1,924	1,849	1,649	1,670	1,651	1,441
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>2,928</b>	<b>1,919</b>	<b>2,031</b>	<b>1,957</b>	<b>1,753</b>	<b>1,767</b>	<b>1,749</b>	<b>1,571</b>
<b>Total Net Generation</b> .....	<b>48,519</b>	<b>55,051</b>	<b>52,364</b>	<b>53,019</b>	<b>53,238</b>	<b>54,478</b>	<b>54,763</b>	<b>52,492</b>
<b>Total International Imports</b> .....	<b>7,101</b>	<b>3,852</b>	<b>6,152</b>	<b>10,140<sup>R</sup></b>	<b>11,216</b>	<b>10,150</b>	<b>8,778</b>	<b>8,287</b>
<b>Total Supply</b> .....	<b>55,620</b>	<b>58,903</b>	<b>58,516</b>	<b>63,159<sup>R</sup></b>	<b>64,454</b>	<b>64,628</b>	<b>63,541</b>	<b>60,779</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	57,399	62,502	63,340	66,019	66,770	68,225	68,152	63,398
Facility Direct Retail Sales <sup>1</sup> .....	-	586	-	-	-	6	639	606
<b>Total Electric Industry Retail Sales</b> .....	<b>57,399</b>	<b>63,087</b>	<b>63,340</b>	<b>66,019</b>	<b>66,770</b>	<b>68,231</b>	<b>68,792</b>	<b>64,004</b>
<b>Direct Use</b> .....	<b>2,859</b>	<b>2,928</b>	<b>2,931</b>	<b>1,467</b>	<b>1,666</b>	<b>1,036<sup>R</sup></b>	<b>1,025<sup>R</sup></b>	<b>1,086</b>
<b>Total International Exports</b> .....	<b>1,103</b>	<b>6,363</b>	<b>3,542</b>	<b>2,328<sup>R</sup></b>	<b>3,291</b>	<b>3,289</b>	<b>1,010</b>	<b>495</b>
<b>Estimated Losses</b> .....	<b>4,161</b>	<b>4,662</b>	<b>5,376</b>	<b>5,049<sup>R</sup></b>	<b>4,966</b>	<b>4,567<sup>R</sup></b>	<b>4,553<sup>R</sup></b>	<b>5,805</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-9,902</b>	<b>-18,138</b>	<b>-16,673</b>	<b>-11,705<sup>R</sup></b>	<b>-12,239</b>	<b>-12,495<sup>R</sup></b>	<b>-11,838<sup>R</sup></b>	<b>-10,611</b>
<b>Total Disposition</b> .....	<b>55,620<sup>R</sup></b>	<b>58,903<sup>R</sup></b>	<b>58,516<sup>R</sup></b>	<b>63,159<sup>R</sup></b>	<b>64,454<sup>R</sup></b>	<b>64,628<sup>R</sup></b>	<b>63,541<sup>R</sup></b>	<b>60,779</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.85</b>	<b>0.76</b>	<b>0.78</b>	<b>0.84</b>	<b>0.84</b>	<b>0.84</b>	<b>0.84<sup>R</sup></b>	<b>0.85</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Mississippi</b>		
NERC Region(s).....		SERC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	15,820	25
Electric Utilities.....	10,081	27
Independent Power Producers & Combined Heat and Power.....	5,738	17
Net Generation (megawatthours).....	48,701,484	30
Electric Utilities.....	34,759,024	30
Independent Power Producers & Combined Heat and Power.....	13,942,460	23
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	45	29
Nitrogen Oxide .....	27	32
Carbon Dioxide.....	23,481	34
Sulfur Dioxide (lbs/MWh) .....	2.1	34
Nitrogen Oxide (lbs/MWh) .....	1.2	27
Carbon Dioxide (lbs/MWh).....	1,063	37
Total Retail Sales (megawatthours).....	46,049,154	29
Full Service Provider Sales (megawatthours) .....	46,049,154	26
Direct Use (megawatthours) .....	1,881,334	18
Average Retail Price (cents/kWh).....	8.85	25

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Mississippi</b>			
1. Victor J Daniel Jr.....	Gas	Mississippi Power Co	1,986
2. Grand Gulf.....	Nuclear	System Energy Resources, Inc	1,251
3. Baxter Wilson.....	Gas	Entergy Mississippi Inc	1,176
4. Jack Watson.....	Coal	Mississippi Power Co	998
5. Magnolia Power Plant .....	Gas	Magnolia Energy LP	863
6. Batesville Generation Facility.....	Gas	LSP Energy Ltd Partnership	858
7. Reliant Energy Choctaw County.....	Gas	RRI Energy Wholesale Generation LLC	848
8. TVA Southaven Combined Cycle.....	Gas	Tennessee Valley Authority	774
9. Caledonia .....	Gas	Tennessee Valley Authority	765
10. Gerald Andrus.....	Gas	Entergy Mississippi Inc	712

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Entergy Mississippi Inc .....	Investor-Owned	12,697,402	5,357,923	5,161,178	2,178,301	-
2. Mississippi Power Co .....	Investor-Owned	9,311,852	2,091,825	2,890,103	4,329,924	-
3. Tennessee Valley Authority .....	Federal	3,521,068	-	-	3,521,068	-
4. Southern Pine Elec Power Assn .....	Cooperative	1,917,830	936,898	296,146	684,786	-
5. Coast Electric Power Assn .....	Cooperative	1,626,472	1,075,640	336,841	213,991	-
Total Sales, Top Five Providers .....		29,074,624	9,462,286	8,684,268	10,928,070	-
Percent of Total State Sales .....		63	52	67	73	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>6,817</b>	<b>9,279</b>	<b>9,015</b>	<b>8,904</b>	<b>9,407</b>	<b>9,377</b>	<b>10,093</b>	<b>10,081</b>	<b>84.3</b>	<b>63.7</b>
Coal.....	2,121	2,231	2,220	2,123	2,108	2,102	2,115	2,115	26.2	13.4
Petroleum.....	35	36	32	34	36	36	36	35	0.4	0.2
Natural Gas.....	3,456	5,749	5,493	5,481	5,997	5,971	6,683	6,680	42.8	42.2
Nuclear.....	1,204	1,263	1,270	1,266	1,266	1,268	1,259	1,251	14.9	7.9
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,267</b>	<b>8,004</b>	<b>8,004</b>	<b>7,980</b>	<b>7,212</b>	<b>6,826</b>	<b>5,848</b>	<b>5,738</b>	<b>15.7</b>	<b>36.3</b>
Coal.....	-	440	440	440	440	440	440	440	-	2.8
Natural Gas.....	1,004	7,281	7,331	7,307	6,539	6,153	5,175	5,065	12.4	32.0
Other Gases <sup>1</sup> .....	-	4	4	4	4	4	4	4	-	*
Other Renewables <sup>2</sup> .....	263	279	229	229	229	229	229	229	3.3	1.4
<b>Total Electric Industry.....</b>	<b>8,083</b>	<b>17,282</b>	<b>17,019</b>	<b>16,885</b>	<b>16,620</b>	<b>16,204</b>	<b>15,942</b>	<b>15,820</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,121	2,671	2,660	2,563	2,548	2,542	2,555	2,555	26.2	16.2
Petroleum.....	35	36	32	34	36	36	36	35	0.4	0.2
Natural Gas.....	4,460	13,029	12,824	12,789	12,537	12,125	11,859	11,746	55.2	74.2
Other Gases <sup>1</sup> .....	-	4	4	4	4	4	4	4	-	*
Nuclear.....	1,204	1,263	1,270	1,266	1,266	1,268	1,259	1,251	14.9	7.9
Other Renewables <sup>2</sup> .....	263	279	229	229	229	229	229	229	3.3	1.4

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Mississippi</b>										
<b>Electric Utilities.....</b>	<b>32,212,133</b>	<b>31,358,938</b>	<b>32,838,145</b>	<b>30,619,168</b>	<b>34,158,706</b>	<b>34,426,533</b>	<b>33,796,221</b>	<b>34,759,024</b>	<b>92.4</b>	<b>71.4</b>
Coal.....	13,037,100	13,742,273	14,274,786	13,389,906	14,907,777	14,422,788	14,033,627	9,610,808	37.4	19.7
Petroleum.....	3,141,934	1,620,395	2,763,630	1,432,077	395,330	397,080	71,597	12,475	9.0	*
Natural Gas.....	7,604,883	5,093,814	5,566,963	5,719,339	8,437,013	10,247,881	10,294,163	14,137,226	21.8	29.0
Nuclear.....	8,428,216	10,902,456	10,232,766	10,077,846	10,418,586	9,358,784	9,396,790	10,998,515	24.2	22.6
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	44	-	-	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,632,839</b>	<b>8,789,340</b>	<b>10,824,468</b>	<b>14,448,285</b>	<b>12,070,141</b>	<b>15,617,153</b>	<b>14,409,490</b>	<b>13,942,460</b>	<b>7.6</b>	<b>28.6</b>
Coal.....	5,193	3,340,331	3,202,902	3,245,978	3,197,556	2,984,537	2,649,775	3,346,854	*	6.9
Petroleum.....	3,119	11,461	13,227	12,771	3,379	2,290	4,684	4,126	*	*
Natural Gas.....	1,187,560	4,383,419	6,051,604	9,640,727	7,268,836	11,087,292	10,313,264	9,130,073	3.4	18.7
Other Gases <sup>2</sup> .....	-	31,799	40,748	20,166	43,723	42,325	40,445	24,735	-	0.1
Other Renewables <sup>1</sup> .....	1,436,967	1,022,175	1,514,446	1,521,697	1,541,082	1,493,365	1,391,281	1,424,279	4.1	2.9
Other <sup>3</sup> .....	-	156	1,541	6,947	15,566	7,344	10,040	12,393	-	*
<b>Total Electric Industry.....</b>	<b>34,844,972</b>	<b>40,148,278</b>	<b>43,662,613</b>	<b>45,067,453</b>	<b>46,228,847</b>	<b>50,043,686</b>	<b>48,205,711</b>	<b>48,701,484</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	13,042,293	17,082,604	17,477,688	16,635,884	18,105,333	17,407,325	16,683,402	12,957,662	37.4	26.6
Petroleum.....	3,145,053	1,631,856	2,776,857	1,444,848	398,709	399,370	76,281	16,601	9.0	*
Natural Gas.....	8,792,443	9,477,233	11,618,567	15,360,066	15,705,849	21,335,173	20,607,427	23,267,299	25.2	47.8
Other Gases <sup>2</sup> .....	-	31,799	40,748	20,166	43,723	42,325	40,445	24,735	-	0.1
Nuclear.....	8,428,216	10,902,456	10,232,766	10,077,846	10,418,586	9,358,784	9,396,790	10,998,515	24.2	22.6
Other Renewables <sup>1</sup> .....	1,436,967	1,022,175	1,514,446	1,521,697	1,541,082	1,493,365	1,391,326	1,424,279	4.1	2.9
Other <sup>3</sup> .....	-	156	1,541	6,947	15,566	7,344	10,040	12,393	-	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Mississippi</b>								
Coal (cents per million Btu) .....	155	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	11,062	9,235	9,087	8,993	8,961	9,290	9,276	8,541
Average sulfur Content (percent).....	0.74	0.59	0.57	0.57	0.60	0.59	0.55	0.53
Petroleum (cents per million Btu) <sup>1</sup> .....	154	412	465	651	830	W	W	W
Average heat value (Btu per gallon).....	157,967	155,336	155,638	155,064	155,619	154,738	149,826	142,902
Average sulfur Content (percent).....	2.72	2.79	2.83	2.86	2.83	2.81	2.09	0.88
Natural Gas (cents per million Btu).....	243	557	594	911	695	720	942	428
Average heat value (Btu per cubic foot).....	1,027	1,036	1,033	1,034	1,036	1,032	1,020	1,018

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Mississippi</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	71	62	62	60	69	62	60	36
Petroleum.....	41	12	16	8	3	2	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	-	*	*	-	*	-	-	-
Other Renewables <sup>1</sup> .....	10	11	11	11	10	11	9	8
Other <sup>2</sup> .....	-	*	*	*	*	*	*	*
Total.....	122	86	90	79	82	75	69	45
<b>Nitrogen Oxide .....</b>								
Coal.....	30	32	30	28	34	34	29	16
Petroleum.....	22	6	10	5	3	4	*	*
Natural Gas.....	7	6	5	7	5	7	10	9
Other Gases.....	-	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	4	4	3	4	3	4	3	2
Other <sup>2</sup> .....	-	*	*	*	*	*	*	*
Total.....	63	48	50	44	45	49	42	27
<b>Carbon Dioxide .....</b>								
Coal.....	12,581 <sup>R</sup>	16,589 <sup>R</sup>	17,081 <sup>R</sup>	16,352 <sup>R</sup>	17,569 <sup>R</sup>	17,084 <sup>R</sup>	16,449 <sup>R</sup>	13,228
Petroleum.....	2,611	1,341	2,270 <sup>R</sup>	1,265 <sup>R</sup>	344 <sup>R</sup>	357 <sup>R</sup>	81 <sup>R</sup>	25
Natural Gas.....	7,232	5,706	6,232	7,732	8,096	10,523	9,362	10,180
Other Gases.....	-	-	2 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	10 <sup>R</sup>	9 <sup>R</sup>	6
Other <sup>2</sup> .....	-	1	7	21	23	31	19 <sup>R</sup>	41
Total.....	22,424 <sup>R</sup>	23,638 <sup>R</sup>	25,591 <sup>R</sup>	25,373 <sup>R</sup>	26,035 <sup>R</sup>	28,005 <sup>R</sup>	25,920 <sup>R</sup>	23,481

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Mississippi</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	16,321	17,670	17,580	17,953	18,276	18,566	18,294	18,095	37.1	39.3
Commercial .....	11,151	12,593	12,750	12,666	12,949	13,400	13,233	13,013	25.4	28.3
Industrial .....	15,735	15,281	15,702	15,282	15,712	16,187	16,195	14,940	35.8	32.4
Other .....	772	NA	NA	NA	NA	NA	NA	NA	1.8	--
All Sectors .....	43,980	45,544	46,033	45,901	46,936	48,153	47,721	46,049	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,102	1,343	1,444	1,564	1,765	1,737	1,902	1,850	44.3	45.4
Commercial .....	690	913	1,019	1,075	1,213	1,196	1,325	1,236	27.8	30.3
Industrial.....	632	684	759	821	934	931	1,062	988	25.4	24.3
Other.....	61	NA	NA	NA	NA	NA	NA	NA	2.5	--
All Sectors .....	2,486	2,940	3,221	3,460	3,912	3,864	4,289	4,074	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.75	7.60	8.21	8.71	9.66	9.36	10.39	10.22	--	--
Commercial .....	6.19	7.25	7.99	8.48	9.37	8.92	10.02	9.50	--	--
Industrial.....	4.02	4.48	4.83	5.37	5.94	5.75	6.56	6.61	--	--
Other.....	7.93	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.65	6.46	7.00	7.54	8.33	8.03	8.99	8.85	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Mississippi</b>								
Number of Entities.....	2	23	1	25	NA	NA	NA	51
Number of Retail Customers .....	620,269	134,454	8	718,541	NA	NA	NA	1,473,272
Retail Sales (thousand megawatthours).....	22,009	3,819	3,521	16,700	NA	NA	NA	46,049
Percentage of Retail Sales .....	47.80	8.29	7.65	36.27	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	1,837	343	167	1,727	NA	NA	NA	4,074
Percentage of Revenue .....	45.10	8.41	4.11	42.39	--	--	--	100.00
Average Retail Price (cents/kWh).....	8.35	8.97	4.75	10.34	NA	NA	NA	8.85

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Mississippi</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	32,212	31,359	32,838	30,619	34,159	34,427	33,796	34,759
Independent Power Producers .....	257	7,308	9,060	12,704	10,182	13,718	12,653	12,129
<b>Electric Power Sector Generation Subtotal</b> .....	<b>32,469</b>	<b>38,667</b>	<b>41,898</b>	<b>43,323</b>	<b>44,341</b>	<b>48,144</b>	<b>46,449</b>	<b>46,888</b>
Combined Heat and Power, Commercial .....	25	26	25	19	7	12	12	24
Combined Heat and Power, Industrial.....	2,351	1,455	1,740	1,725	1,881	1,888	1,745	1,789
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>2,376</b>	<b>1,482</b>	<b>1,764</b>	<b>1,745</b>	<b>1,888</b>	<b>1,899</b>	<b>1,757</b>	<b>1,813</b>
<b>Total Net Generation</b> .....	<b>34,845</b>	<b>40,148</b>	<b>43,663</b>	<b>45,067</b>	<b>46,229</b>	<b>50,044</b>	<b>48,206</b>	<b>48,701</b>
<b>Total Supply</b> .....	<b>34,845</b>	<b>40,148</b>	<b>43,663</b>	<b>45,067</b>	<b>46,229</b>	<b>50,044</b>	<b>48,206</b>	<b>48,701</b>
.....								
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	43,980	45,544	46,033	45,901	46,936	48,153	47,721	46,049
<b>Total Electric Industry Retail Sales</b> .....	<b>43,980</b>	<b>45,544</b>	<b>46,033</b>	<b>45,901</b>	<b>46,936</b>	<b>48,153</b>	<b>47,721</b>	<b>46,049</b>
<b>Direct Use</b> .....	<b>2,381</b>	<b>2,383</b>	<b>2,385</b>	<b>1,166</b>	<b>1,964</b>	<b>1,970</b>	<b>1,876<sup>R</sup></b>	<b>1,881</b>
<b>Estimated Losses</b> .....	<b>3,188</b>	<b>2,941</b>	<b>3,472</b>	<b>3,707<sup>R</sup></b>	<b>3,729</b>	<b>4,439<sup>R</sup></b>	<b>4,126<sup>R</sup></b>	<b>3,682</b>
<b>Net Interstate Trade<sup>1</sup></b> .....	<b>-14,704</b>	<b>-10,720</b>	<b>-8,227</b>	<b>-5,707<sup>R</sup></b>	<b>-6,401</b>	<b>-4,519<sup>R</sup></b>	<b>-5,518<sup>R</sup></b>	<b>-2,911</b>
<b>Total Disposition</b> .....	<b>34,845<sup>R</sup></b>	<b>40,148<sup>R</sup></b>	<b>43,663<sup>R</sup></b>	<b>45,067<sup>R</sup></b>	<b>46,229<sup>R</sup></b>	<b>50,044<sup>R</sup></b>	<b>48,206<sup>R</sup></b>	<b>48,701</b>
<b>Net Trade Index (ratio)<sup>2</sup></b> .....	<b>0.70</b>	<b>0.79</b>	<b>0.84</b>	<b>0.89</b>	<b>0.88</b>	<b>0.92</b>	<b>0.90<sup>R</sup></b>	<b>0.94</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Missouri</b>		
NERC Region(s).....		SERC/SPP
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	20,829	20
Electric Utilities.....	19,600	14
Independent Power Producers & Combined Heat and Power.....	1,228	39
Net Generation (megawatthours).....	88,354,272	18
Electric Utilities.....	86,704,766	12
Independent Power Producers & Combined Heat and Power.....	1,649,506	46
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	236	9
Nitrogen Oxide .....	52	20
Carbon Dioxide.....	74,716	9
Sulfur Dioxide (lbs/MWh) .....	5.9	8
Nitrogen Oxide (lbs/MWh) .....	1.3	25
Carbon Dioxide (lbs/MWh).....	1,864	8
Total Retail Sales (megawatthours).....	79,686,603	17
Full Service Provider Sales (megawatthours) .....	79,686,603	15
Direct Use (megawatthours) .....	245,721	39
Average Retail Price (cents/kWh).....	7.35	41

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Missouri</b>			
1. Labadie .....	Coal	Union Electric Co	2,405
2. Callaway .....	Nuclear	Union Electric Co	1,190
3. Rush Island .....	Coal	Union Electric Co	1,181
4. New Madrid .....	Coal	Associated Electric Coop, Inc	1,160
5. Thomas Hill .....	Coal	Associated Electric Coop, Inc	1,120
6. Sioux .....	Coal	Union Electric Co	986
7. Hawthorn .....	Coal	Kansas City Power & Light Co	980
8. Meramec .....	Coal	Union Electric Co	949
9. Iatan .....	Coal	Kansas City Power & Light Co	651
10. Aries Power Project.....	Gas	Dogwood Energy LLC	614

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Union Electric Co.....	Investor-Owned	35,098,274	13,413,330	14,626,303	7,037,400	21,241
2. Kansas City Power & Light Co.....	Investor-Owned	8,459,212	2,489,438	4,441,437	1,528,337	-
3. KCP&L Greater Missouri Operations.....	Investor-Owned	7,868,208	3,444,547	3,165,301	1,258,360	-
4. Empire District Electric Co.....	Investor-Owned	4,036,696	1,662,612	1,558,009	816,075	-
5. City Utilities of Springfield.....	Public	2,938,350	977,079	1,515,849	445,422	-
Total Sales, Top Five Providers.....		58,400,740	21,987,006	25,306,899	11,085,594	21,241
Percent of Total State Sales.....		73	64	83	74	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Missouri</b>										
<b>Electric Utilities.....</b>	<b>16,755</b>	<b>18,587</b>	<b>18,606</b>	<b>18,970</b>	<b>19,675</b>	<b>19,570</b>	<b>19,621</b>	<b>19,600</b>	<b>99.4</b>	<b>94.1</b>
Coal.....	10,889	11,172	11,159	11,172	11,199	11,165	11,146	11,137	64.6	53.5
Petroleum.....	1,181	1,259	1,243	1,241	1,265	1,274	1,267	1,257	7.0	6.0
Natural Gas.....	2,359	3,806	3,853	4,158	4,809	4,728	4,790	4,790	14.0	23.0
Nuclear.....	1,127	1,137	1,137	1,190	1,190	1,190	1,190	1,190	6.7	5.7
Hydroelectric.....	543	556	556	552	552	552	566	564	3.2	2.7
Other Renewables <sup>1</sup> .....	-	-	-	-	3	3	5	5	-	*
Pumped Storage.....	657	657	657	657	657	657	657	657	3.9	3.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>106</b>	<b>1,390</b>	<b>1,557</b>	<b>1,562</b>	<b>924</b>	<b>988</b>	<b>1,085</b>	<b>1,228</b>	<b>0.6</b>	<b>5.9</b>
Coal.....	93	96	98	100	100	94	94	94	0.6	0.5
Petroleum.....	9	11	11	13	13	12	15	15	0.1	0.1
Natural Gas.....	3	1,284	1,449	1,449	811	825	814	808	*	3.9
Other Renewables <sup>1</sup> .....	-	-	-	-	-	57	163	311	-	1.5
<b>Total Electric Industry.....</b>	<b>16,860</b>	<b>19,977</b>	<b>20,163</b>	<b>20,533</b>	<b>20,599</b>	<b>20,558</b>	<b>20,706</b>	<b>20,829</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	10,982	11,267	11,257	11,273	11,299	11,259	11,240	11,231	65.1	53.9
Petroleum.....	1,190	1,270	1,254	1,254	1,279	1,287	1,282	1,272	7.1	6.1
Natural Gas.....	2,362	5,089	5,302	5,607	5,619	5,553	5,604	5,598	14.0	26.9
Nuclear.....	1,127	1,137	1,137	1,190	1,190	1,190	1,190	1,190	6.7	5.7
Hydroelectric.....	543	556	556	552	552	552	566	564	3.2	2.7
Other Renewables <sup>1</sup> .....	-	-	-	-	3	60	168	316	-	1.5
Pumped Storage.....	657	657	657	657	657	657	657	657	3.9	3.2

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Missouri</b>										
<b>Electric Utilities.....</b>	<b>73,504,882</b>	<b>86,102,107</b>	<b>86,419,717</b>	<b>90,159,045</b>	<b>91,118,304</b>	<b>89,925,724</b>	<b>89,178,555</b>	<b>86,704,766</b>	<b>99.6</b>	<b>98.1</b>
Coal.....	61,249,846	73,904,272	74,711,159	77,123,580	77,113,165	74,745,712	73,246,599	71,401,581	83.0	80.8
Petroleum.....	280,945	155,968	195,098	168,258	59,958	59,611	56,620	87,081	0.4	0.1
Natural Gas.....	1,597,302	1,820,848	1,978,307	3,522,842	3,512,299	4,102,135	3,847,997	2,500,771	2.2	2.8
Other Gases <sup>1</sup> .....	-	1,652	2,400	2,383	5,091	3,400	2,587	6,532	-	*
Nuclear.....	8,586,646	9,699,589	7,830,693	8,030,577	10,116,660	9,371,955	9,378,629	10,247,116	11.6	11.6
Hydroelectric.....	1,853,065	652,477	1,479,914	1,159,326	199,214	1,204,326	2,046,773	1,816,693	2.5	2.1
Other Renewables <sup>2</sup> .....	49,824	179	192	-	15,291	22,064	33,603	54,371	0.1	0.1
Pumped Storage.....	-112,746	-253,991	115,325	85,932	47,552	383,473	545,355	566,713	-0.2	0.6
Other <sup>3</sup> .....	-	121,112	106,630	66,147	49,074	33,048	20,393	23,908	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>310,828</b>	<b>1,122,980</b>	<b>1,213,193</b>	<b>669,185</b>	<b>568,039</b>	<b>1,227,357</b>	<b>1,850,241</b>	<b>1,649,506</b>	<b>0.4</b>	<b>1.9</b>
Coal.....	257,452	307,512	312,396	312,979	336,439	338,441	285,062	209,658	0.3	0.2
Petroleum.....	12,227	946	1,063	915	1,066	790	802	439	*	*
Natural Gas.....	29,506	803,502	886,545	343,104	217,128	877,244	1,348,140	915,460	*	1.0
Other Renewables <sup>2</sup> .....	11,643	8,297	9,442	8,598	8,680	7,245	212,422	520,434	*	0.6
Other <sup>3</sup> .....	-	2,724	3,747	3,590	4,726	3,637	3,815	3,515	-	*
<b>Total Electric Industry.....</b>	<b>73,815,710</b>	<b>87,225,087</b>	<b>87,632,910</b>	<b>90,828,230</b>	<b>91,686,343</b>	<b>91,153,081</b>	<b>91,028,795</b>	<b>88,354,272</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	61,507,298	74,211,784	75,023,555	77,436,559	77,449,604	75,084,154	73,531,660	71,611,240	83.3	81.1
Petroleum.....	293,172	156,914	196,161	169,173	61,024	60,401	57,421	87,519	0.4	0.1
Natural Gas.....	1,626,808	2,624,350	2,864,851	3,865,946	3,729,427	4,979,379	5,196,137	3,416,231	2.2	3.9
Other Gases <sup>1</sup> .....	-	1,652	2,400	2,383	5,091	3,400	2,587	6,532	-	*
Nuclear.....	8,586,646	9,699,589	7,830,693	8,030,577	10,116,660	9,371,955	9,378,629	10,247,116	11.6	11.6
Hydroelectric.....	1,853,065	652,477	1,479,914	1,159,326	199,214	1,204,326	2,046,773	1,816,693	2.5	2.1
Other Renewables <sup>2</sup> .....	61,467	8,476	9,634	8,598	23,971	29,309	246,026	574,805	0.1	0.7
Pumped Storage.....	-112,746	-253,991	115,325	85,932	47,552	383,473	545,355	566,713	-0.2	0.6
Other <sup>3</sup> .....	-	123,836	110,377	69,737	53,800	36,685	24,208	27,423	-	*

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Missouri</b>								
Coal (cents per million Btu) .....	93	W	W	W	W	W	151	W
Average heat value (Btu per pound).....	8,948	8,865	8,838	8,854	8,808	8,825	8,837	8,802
Average sulfur Content (percent).....	0.34	0.37	0.38	0.37	0.36	0.38	0.38	0.38
Petroleum (cents per million Btu) <sup>1</sup> .....	88	W	279	1,236	1,457	1,713	W	W
Average heat value (Btu per gallon).....	76,829	137,769	139,288	137,693	137,188	137,476	137,340	137,948
Average sulfur Content (percent).....	4.95	2.39	3.02	0.24	0.24	0.23	0.80	1.20
Natural Gas (cents per million Btu).....	266	W	W	W	W	W	W	W
Average heat value (Btu per cubic foot).....	1,003	1,016	1,016	1,020	1,024	1,024	1,021	1,017

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Missouri</b>								
<b>Sulfur Dioxide</b> .....								
Coal.....	240	255	265	266	253	251	253	234
Petroleum.....	6	2	3	7	6	6	*	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	* <sup>R</sup>	-	-	-	-	-	-	*
Other <sup>2</sup> .....	*	2	1	1	1	1	*	*
Total.....	246	258	270	273	260	258	253	236
<b>Nitrogen Oxide</b> .....								
Coal.....	169	133	114	113	105	97	81	50
Petroleum.....	2	*	*	1	*	*	*	*
Natural Gas.....	3	1	2	1	2	2	1	1
Other Gases.....	-	-	-	-	-	-	*	*
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	1
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	174	135	117	115	108	100	83	52
<b>Carbon Dioxide</b> .....								
Coal.....	64,216 <sup>R</sup>	75,484 <sup>R</sup>	76,459 <sup>R</sup>	79,174 <sup>R</sup>	78,513 <sup>R</sup>	76,064 <sup>R</sup>	75,226 <sup>R</sup>	72,958
Petroleum.....	309	156	197 <sup>R</sup>	170 <sup>R</sup>	60 <sup>R</sup>	60 <sup>R</sup>	62 <sup>R</sup>	102
Natural Gas.....	1,086	1,198	1,351	1,747	1,790	2,244	2,329	1,618
Other Gases.....	-	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	2 <sup>R</sup>	4
Other <sup>2</sup> .....	3	114	103	71	55	40	31	33
Total.....	65,614 <sup>R</sup>	76,952 <sup>R</sup>	78,111 <sup>R</sup>	81,163 <sup>R</sup>	80,422 <sup>R</sup>	78,410 <sup>R</sup>	77,650 <sup>R</sup>	74,716

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Missouri</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	27,766	31,422	31,351	34,412	33,880	35,872	35,390	34,221	40.2	42.9
Commercial .....	24,111	27,987	28,391	29,640	29,800	31,126	31,118	30,394	34.9	38.1
Industrial .....	16,122	14,831	14,303	16,869	18,316	18,515	17,850	15,050	23.3	18.9
Other .....	1,046	NA	NA	NA	NA	NA	NA	NA	1.5	--
Transportation.....	NA	NA	10	19	19	20	24	21	--	*
All Sectors .....	69,045	74,240	74,054	80,940	82,015	85,533	84,382	79,687	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,976	2,186	2,185	2,437	2,520	2,758	2,832	2,924	47.2	49.9
Commercial .....	1,437	1,618	1,648	1,756	1,811	1,973	2,057	2,115	34.3	36.1
Industrial .....	707	667	661	766	838	882	879	816	16.9	13.9
Other .....	65	NA	NA	NA	NA	NA	NA	NA	1.6	--
Transportation.....	NA	NA	*	1	1	1	1	1	--	*
All Sectors .....	4,186	4,470	4,494	4,960	5,170	5,614	5,768	5,857	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.12	6.96	6.97	7.08	7.44	7.69	8.00	8.54	--	--
Commercial .....	5.96	5.78	5.80	5.92	6.08	6.34	6.61	6.96	--	--
Industrial .....	4.38	4.49	4.62	4.54	4.58	4.76	4.92	5.42	--	--
Other .....	6.26	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	4.91	4.77	5.75	6.16	5.40	5.83	--	--
All Sectors .....	6.06	6.02	6.07	6.13	6.30	6.56	6.84	7.35	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	

**Missouri**

Number of Entities.....	4	87	NA	42	1	NA	NA	134
Number of Retail Customers .....	1,919,444	422,547	NA	723,222	2	NA	NA	3,065,215
Retail Sales (thousand megawatthours).....	55,462	10,581	NA	13,624	19	NA	NA	79,687
Percentage of Retail Sales .....	69.60	13.28	--	17.10	0.02	--	--	100.00
Revenue from Retail Sales (million dollars) .....	3,788	846	NA	1,221	1	NA	NA	5,857
Percentage of Revenue .....	64.68	14.45	--	20.86	0.02	--	--	100.00
Average Retail Price (cents/kWh).....	6.83	8.00	NA	8.97	5.41	NA	NA	7.35

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Missouri</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	73,505	86,102	86,420	90,159	91,118	89,926	89,179	86,705
Independent Power Producers .....	-	783	828	319	165	820	1,423	1,383
Combined Heat and Power, Electric .....	-	-	46	5	30	45	127	41
<b>Electric Power Sector Generation Subtotal</b> .....	<b>73,505</b>	<b>86,886</b>	<b>87,294</b>	<b>90,483</b>	<b>91,313</b>	<b>90,791</b>	<b>90,728</b>	<b>88,129</b>
Combined Heat and Power, Commercial .....	141	134	155	163	201	194	151	104
Combined Heat and Power, Industrial.....	170	205	184	182	172	168	150	121
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>311</b>	<b>340</b>	<b>339</b>	<b>345</b>	<b>373</b>	<b>362</b>	<b>301</b>	<b>225</b>
<b>Total Net Generation</b> .....	<b>73,816</b>	<b>87,225</b>	<b>87,633</b>	<b>90,828</b>	<b>91,686</b>	<b>91,153</b>	<b>91,029</b>	<b>88,354</b>
<b>Total International Imports</b> .....	<b>4</b>	<b>-</b>	<b>-</b>	<b>12</b>	<b>3</b>	<b>1</b>	<b>209</b>	<b>669</b>
<b>Total Supply</b> .....	<b>73,819</b>	<b>87,225</b>	<b>87,633</b>	<b>90,841</b>	<b>91,689</b>	<b>91,154</b>	<b>91,238</b>	<b>89,024</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	68,976	74,220	74,035	80,921	81,996	85,513	84,275	79,667
Energy-Only Providers.....	69	-	-	-	-	-	-	-
Facility Direct Retail Sales <sup>1</sup> .....	-	20	20	20	20	20	107	19
<b>Total Electric Industry Retail Sales</b> .....	<b>69,045</b>	<b>74,240</b>	<b>74,054</b>	<b>80,940</b>	<b>82,015</b>	<b>85,533</b>	<b>84,382</b>	<b>79,687</b>
<b>Direct Use</b> .....	<b>310</b>	<b>305</b>	<b>305</b>	<b>293</b>	<b>160</b>	<b>139<sup>R</sup></b>	<b>311</b>	<b>246</b>
<b>Total International Exports</b> .....	<b>*</b>	<b>*</b>	<b>6</b>	<b>2</b>	<b>*</b>	<b>*</b>	<b>15</b>	<b>11</b>
<b>Estimated Losses</b> .....	<b>5,005</b>	<b>5,488</b>	<b>5,999</b>	<b>6,794<sup>R</sup></b>	<b>6,730</b>	<b>7,109<sup>R</sup></b>	<b>6,816<sup>R</sup></b>	<b>5,745</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-541</b>	<b>7,193</b>	<b>7,268</b>	<b>2,811<sup>R</sup></b>	<b>2,784</b>	<b>-1,627<sup>R</sup></b>	<b>-286<sup>R</sup></b>	<b>3,336</b>
<b>Total Disposition</b> .....	<b>73,819<sup>R</sup></b>	<b>87,225<sup>R</sup></b>	<b>87,633<sup>R</sup></b>	<b>90,841<sup>R</sup></b>	<b>91,689<sup>R</sup></b>	<b>91,154<sup>R</sup></b>	<b>91,238<sup>R</sup></b>	<b>89,024</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.99</b>	<b>1.09</b>	<b>1.09</b>	<b>1.03</b>	<b>1.03</b>	<b>0.98<sup>R</sup></b>	<b>1.00<sup>R</sup></b>	<b>1.04</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Montana</b>		
NERC Region(s).....		MRO/WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	5,779	41
Electric Utilities.....	2,232	38
Independent Power Producers & Combined Heat and Power.....	3,546	27
Net Generation (megawatthours).....	26,712,735	41
Electric Utilities.....	6,275,963	39
Independent Power Producers & Combined Heat and Power.....	20,436,772	15
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	23	36
Nitrogen Oxide.....	21	36
Carbon Dioxide.....	17,548	37
Sulfur Dioxide (lbs/MWh) .....	1.9	37
Nitrogen Oxide (lbs/MWh) .....	1.7	21
Carbon Dioxide (lbs/MWh).....	1,448	20
Total Retail Sales (megawatthours).....	14,326,159	41
Full Service Provider Sales (megawatthours) .....	11,276,658	42
Energy-Only Provider Sales (megawatthours).....	3,049,501	15
Direct Use (megawatthours) .....	192,482	41
Average Retail Price (cents/kWh).....	7.57	37

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Montana</b>			
1. Colstrip .....	Coal	PPL Montana LLC	2,094
2. Noxon Rapids.....	Hydroelectric	Avista Corp	554
3. Libby.....	Hydroelectric	USCE-North Pacific Division	525
4. Hungry Horse .....	Hydroelectric	U S Bureau of Reclamation	428
5. Yellowtail .....	Hydroelectric	U S Bureau of Reclamation	287
6. Kerr.....	Hydroelectric	PPL Montana LLC	206
7. Fort Peck.....	Hydroelectric	USCE-Missouri River District	200
8. J E Corette Plant .....	Coal	PPL Montana LLC	154
9. Judith Gap Wind Energy Center.....	Other Renewables	Invenergy Services LLC	135
10. Hardin Generator Project.....	Coal	Rocky Mountain Power Inc	107

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. NorthWestern Corporation .....	Investor-Owned	5,794,878	2,315,297	3,041,402	438,179	-
2. PPL EnergyPlus LLC .....	Other Provider	2,217,268	-	-	2,217,268	-
3. Flathead Electric Coop Inc .....	Cooperative	1,305,453	698,338	432,043	175,072	-
4. Montana-Dakota Utilities Co .....	Investor-Owned	696,950	165,916	228,636	302,398	-
5. ConocoPhillips Company .....	Other Provider	464,780	-	-	464,780	-
Total Sales, Top Five Providers .....		10,479,329	3,179,551	3,702,081	3,597,697	-
Percent of Total State Sales .....		73	67	77	75	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>2,997</b>	<b>2,274</b>	<b>2,189</b>	<b>2,186</b>	<b>2,163</b>	<b>2,179</b>	<b>2,190</b>	<b>2,232</b>	<b>51.0</b>	<b>38.6</b>
Coal.....	792	52	52	52	52	52	52	52	13.5	0.9
Petroleum.....	5	-	-	2	2	2	2	2	0.1	*
Natural Gas .....	53	97	98	100	100	100	100	102	0.9	1.8
Hydroelectric .....	2,147	2,124	2,040	2,032	2,009	2,025	2,030	2,056	36.6	35.6
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	6	20	-	0.3
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>2,875</b>	<b>2,937</b>	<b>2,943</b>	<b>3,082</b>	<b>3,274</b>	<b>3,301</b>	<b>3,424</b>	<b>3,546</b>	<b>49.0</b>	<b>61.4</b>
Coal.....	2,221	2,248	2,283	2,287	2,408	2,406	2,390	2,390	37.8	41.4
Petroleum.....	61	90	55	55	55	57	55	55	1.0	1.0
Natural Gas .....	-	-	-	-	54	54	82 <sup>R</sup>	98	-	1.7
Other Gases <sup>2</sup> .....	-	-	-	-	-	-	2	2	-	*
Hydroelectric .....	583	588	588	588	595	595	630	635	9.9	11.0
Other Renewables <sup>1</sup> .....	10	11	17	152	162	189	267 <sup>R</sup>	367	0.2	6.3
<b>Total Electric Industry.....</b>	<b>5,872</b>	<b>5,210</b>	<b>5,132</b>	<b>5,268</b>	<b>5,437</b>	<b>5,479</b>	<b>5,614</b>	<b>5,779</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,013	2,300	2,335	2,339	2,460	2,458	2,442	2,442	51.3	42.3
Petroleum.....	66	90	55	57	57	59	57	57	1.1	1.0
Natural Gas .....	53	97	98	100	154	154	181 <sup>R</sup>	200	0.9	3.5
Other Gases <sup>2</sup> .....	-	-	-	-	-	-	2	2	-	*
Hydroelectric .....	2,730	2,712	2,627	2,619	2,604	2,620	2,660	2,692	46.5	46.6
Other Renewables <sup>1</sup> .....	10	11	17	152	162	189	272 <sup>R</sup>	386	0.2	6.7

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Montana</b>										
<b>Electric Utilities.....</b>	<b>27,596,974</b>	<b>6,020,681</b>	<b>6,066,404</b>	<b>6,587,015</b>	<b>6,956,390</b>	<b>6,342,288</b>	<b>6,902,037</b>	<b>6,275,963</b>	<b>87.8</b>	<b>23.5</b>
Coal.....	15,981,559	322,205	347,287	283,468	336,324	313,689	330,634	315,884	50.9	1.2
Petroleum.....	14,532	1,482	1,004	458	426	1,289	1,027	302	*	*
Natural Gas.....	20,167	17,997	12,532	10,602	8,347	15,007	3,430	2,268	0.1	*
Hydroelectric.....	11,580,716	5,678,997	5,705,581	6,292,487	6,611,293	6,012,303	6,566,946	5,889,817	36.9	22.0
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	-	67,691	-	0.3
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,822,360</b>	<b>20,248,046</b>	<b>20,722,364</b>	<b>21,351,763</b>	<b>21,287,146</b>	<b>22,589,205</b>	<b>22,735,100</b>	<b>20,436,772</b>	<b>12.2</b>	<b>76.5</b>
Coal.....	1,011,596	16,726,430	17,032,941	17,539,871	16,748,756	18,043,086	18,000,899	15,295,395	3.2	57.3
Petroleum.....	472,427	400,682	438,133	414,418	418,698	477,388	418,124	490,131	1.5	1.8
Natural Gas.....	16,439	7,471	15,421	16,336	59,233	90,966	62,228	75,494	0.1	0.3
Other Gases <sup>2</sup> .....	30,606	19,520	22,972	14,665	11,207	19,011	5,772	1,447	0.1	*
Hydroelectric.....	2,241,346	3,022,775	3,150,450	3,294,862	3,518,868	3,352,033	3,432,611	3,616,123	7.1	13.5
Other Renewables <sup>1</sup> .....	49,946	71,168	62,446	71,612	530,385	606,721	704,096 <sup>R</sup>	847,875	0.2	3.2
Other <sup>3</sup> .....	-	-	-	-	-	-	111,371 <sup>R</sup>	110,308	-	0.4
<b>Total Electric Industry.....</b>	<b>31,419,334</b>	<b>26,268,727</b>	<b>26,788,768</b>	<b>27,938,778</b>	<b>28,243,536</b>	<b>28,931,493</b>	<b>29,637,137</b>	<b>26,712,735</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	16,993,155	17,048,635	17,380,228	17,823,339	17,085,080	18,356,775	18,331,532	15,611,279	54.1	58.4
Petroleum.....	486,959	402,164	439,137	414,876	419,124	478,677	419,150	490,433	1.5	1.8
Natural Gas.....	36,606	25,468	27,953	26,938	67,580	105,974	65,659	77,762	0.1	0.3
Other Gases <sup>2</sup> .....	30,606	19,520	22,972	14,665	11,207	19,011	5,772	1,447	0.1	*
Hydroelectric.....	13,822,062	8,701,772	8,856,031	9,587,349	10,130,161	9,364,336	9,999,557	9,505,940	44.0	35.6
Other Renewables <sup>1</sup> .....	49,946	71,168	62,446	71,612	530,385	606,721	704,096 <sup>R</sup>	915,566	0.2	3.4
Other <sup>3</sup> .....	-	-	-	-	-	-	111,371 <sup>R</sup>	110,308	-	0.4

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Montana</b>								
Coal (cents per million Btu) .....	73	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	8,435	8,515	8,504	8,447	8,428	8,426	8,347	8,409
Average sulfur Content (percent).....	0.73	0.62	0.63	0.66	0.66	0.61	0.69	0.67
Petroleum (cents per million Btu) <sup>1</sup> .....	491	W	W	W	W	W	W	W
Average heat value (Btu per gallon).....	140,100	136,574	137,064	126,095	130,833	137,343	136,819	139,021
Average sulfur Content (percent).....	0.24	0.45	0.46	0.35	5.57	6.04	5.93	5.73
Natural Gas (cents per million Btu).....	185	W	W	W	W	W	W	W
Average heat value (Btu per cubic foot).....	1,092	1,123	1,095	1,106	1,093	1,013	1,025	1,021

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Montana</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	23	16	19	18	18	20	18	19
Petroleum.....	2	2	2	2	2	2	3	3
Natural Gas.....	*	-	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	2	5	2	2	1	2	1	1
Total.....	28	23	23	22	22	24	22	23
<b>Nitrogen Oxide .....</b>								
Coal.....	38	32	33	36	36	37	26	19
Petroleum.....	3	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	1	1	1	1
Other Gases.....	*	*	1	1	1	1	*	*
Other Renewables <sup>1</sup> .....	1	3	1	1	1	1	1	1
Total.....	41	35	35	38	38	40	28	21
<b>Carbon Dioxide .....</b>								
Coal.....	17,833 <sup>R</sup>	18,211 <sup>R</sup>	18,669 <sup>R</sup>	18,986 <sup>R</sup>	18,493 <sup>R</sup>	19,497 <sup>R</sup>	19,574 <sup>R</sup>	16,668
Petroleum.....	790 <sup>R</sup>	707 <sup>R</sup>	827 <sup>R</sup>	786	793	749	706	818
Natural Gas.....	198	58	125	102	118	101	75	62
Other Gases.....	1 <sup>R</sup>	4 <sup>R</sup>	5 <sup>R</sup>	-	-	-	-	-
Total.....	18,822 <sup>R</sup>	18,980 <sup>R</sup>	19,625 <sup>R</sup>	19,875 <sup>R</sup>	19,404 <sup>R</sup>	20,347 <sup>R</sup>	20,355 <sup>R</sup>	17,548

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Montana</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	3,664	4,120	4,053	4,221	4,394	4,542	4,669	4,774	27.6	33.3
Commercial .....	3,025	4,438	4,330	4,473	4,686	4,828	4,826	4,779	22.8	33.4
Industrial .....	6,258	4,267	4,574	4,784	4,735	6,163	5,831	4,773	47.1	33.3
Other .....	334	NA	NA	NA	NA	NA	NA	NA	2.5	--
All Sectors .....	13,282	12,825	12,957	13,479	13,815	15,532	15,326	14,326	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	249	311	319	342	364	398	426	426	39.3	39.3
Commercial .....	192	304	321	332	349	391	412	398	30.4	36.7
Industrial.....	171	172	190	231	242	318	344	260	27.0	24.0
Other.....	21	NA	NA	NA	NA	NA	NA	NA	3.4	--
All Sectors .....	633	787	830	906	955	1,108	1,183	1,084	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.78	7.56	7.86	8.10	8.28	8.77	9.13	8.93	--	--
Commercial .....	6.35	6.85	7.42	7.43	7.44	8.10	8.54	8.32	--	--
Industrial.....	2.74	4.03	4.15	4.83	5.12	5.16	5.90	5.45	--	--
Other.....	6.34	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	4.77	6.14	6.40	6.72	6.91	7.13	7.72	7.57	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Montana</b>								
Number of Entities.....	5	1	2	29	NA	2	2	41
Number of Retail Customers .....	357,511	979	20,802	190,139	NA	518	NA	569,949
Retail Sales (thousand megawatthours).....	6,875	17	463	3,922	NA	3,050	NA	14,326
Percentage of Retail Sales .....	47.99	0.12	3.23	27.38	--	21.29	--	100.00
Revenue from Retail Sales (million dollars).....	597	1	23	306	NA	140	18	1,084
Percentage of Revenue .....	55.05	0.09	2.09	28.21	--	12.93	1.63	100.00
Average Retail Price (cents/kWh).....	8.68	5.80	4.90	7.80	NA	4.60	0.58	7.57

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Montana</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	27,597	6,021	6,066	6,587	6,956	6,342	6,902	6,276
Independent Power Producers .....	3,266	19,792	20,210	20,851	20,764	21,986	22,202	19,853
Combined Heat and Power, Electric .....	490	378	434	412	408	482	405	479
<b>Electric Power Sector Generation Subtotal</b> .....	<b>31,353</b>	<b>26,191</b>	<b>26,710</b>	<b>27,851</b>	<b>28,128</b>	<b>28,810</b>	<b>29,509</b>	<b>26,608</b>
Combined Heat and Power, Industrial.....	67	78	78	88	116	121	128	105
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>67</b>	<b>78</b>	<b>78</b>	<b>88</b>	<b>116</b>	<b>121</b>	<b>128</b>	<b>105</b>
<b>Total Net Generation</b> .....	<b>31,419</b>	<b>26,269</b>	<b>26,789</b>	<b>27,939</b>	<b>28,244</b>	<b>28,931</b>	<b>29,637</b>	<b>26,713</b>
<b>Total International Imports</b> .....	<b>19</b>	<b>11</b>	<b>40</b>	<b>109</b>	<b>86</b>	<b>95</b>	<b>241</b>	<b>216</b>
<b>Total Supply</b> .....	<b>31,438</b>	<b>26,280</b>	<b>26,829</b>	<b>28,048</b>	<b>28,329</b>	<b>29,026</b>	<b>29,879</b>	<b>26,928</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	12,132	10,282	10,084	10,642	10,821	12,832	12,492	11,277
Energy-Only Providers .....	1,150	2,542	2,873	2,836	2,994	2,700	2,834	3,050
<b>Total Electric Industry Retail Sales</b> .....	<b>13,282</b>	<b>12,825</b>	<b>12,957</b>	<b>13,479</b>	<b>13,815</b>	<b>15,532</b>	<b>15,326</b>	<b>14,326</b>
<b>Direct Use</b> .....	<b>132</b>	<b>155</b>	<b>155</b>	<b>93</b>	<b>120</b>	<b>121<sup>R</sup></b>	<b>238<sup>R</sup></b>	<b>192</b>
<b>Total International Exports</b> .....	<b>35</b>	<b>1</b>	<b>76</b>	<b>100</b>	<b>299</b>	<b>149</b>	<b>489</b>	<b>504</b>
<b>Estimated Losses</b> .....	<b>963</b>	<b>1,448</b>	<b>3,067</b>	<b>3,722</b>	<b>3,575</b>	<b>3,550<sup>R</sup></b>	<b>4,608<sup>R</sup></b>	<b>6,076</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>17,027</b>	<b>11,851</b>	<b>10,574</b>	<b>10,654<sup>R</sup></b>	<b>10,519</b>	<b>9,675<sup>R</sup></b>	<b>9,218<sup>R</sup></b>	<b>5,830</b>
<b>Total Disposition</b> .....	<b>31,438<sup>R</sup></b>	<b>26,280<sup>R</sup></b>	<b>26,829<sup>R</sup></b>	<b>28,048<sup>R</sup></b>	<b>28,329<sup>R</sup></b>	<b>29,026<sup>R</sup></b>	<b>29,879<sup>R</sup></b>	<b>26,928</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>2.18</b>	<b>1.82</b>	<b>1.65</b>	<b>1.61</b>	<b>1.59</b>	<b>1.50</b>	<b>1.45</b>	<b>1.28</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Nebraska</b>		
NERC Region(s).....		MRO
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	7,768	37
Electric Utilities.....	7,675	30
Independent Power Producers & Combined Heat and Power.....	93	51
Net Generation (megawatthours).....	34,001,892	39
Electric Utilities.....	33,776,062	32
Independent Power Producers & Combined Heat and Power.....	225,830	50
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	70	25
Nitrogen Oxide.....	44	26
Carbon Dioxide.....	23,899	33
Sulfur Dioxide (lbs/MWh) .....	4.5	14
Nitrogen Oxide (lbs/MWh) .....	2.9	9
Carbon Dioxide (lbs/MWh).....	1,550	18
Total Retail Sales (megawatthours).....	28,452,194	36
Full Service Provider Sales (megawatthours) .....	28,452,194	35
Direct Use (megawatthours) .....	61,168	44
Average Retail Price (cents/kWh).....	7.21	42

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Nebraska</b>			
1. Gerald Gentleman.....	Coal	Nebraska Public Power District	1,365
2. Nebraska City .....	Coal	Omaha Public Power District	1,330
3. Cooper .....	Nuclear	Nebraska Public Power District	774
4. North Omaha .....	Coal	Omaha Public Power District	646
5. Fort Calhoun .....	Nuclear	Omaha Public Power District	478
6. Cass County.....	Gas	Omaha Public Power District	322
7. Sarpy County.....	Gas	Omaha Public Power District	312
8. Rokeby.....	Gas	Lincoln Electric System	242
9. Beatrice .....	Gas	Nebraska Public Power District	237
10. Sheldon .....	Coal	Nebraska Public Power District	225

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Nebraska</b>						
1. Omaha Public Power District .....	Public	10,148,466	3,351,940	3,663,335	3,133,191	-
2. Lincoln Electric System.....	Public	3,054,073	1,121,829	1,448,046	484,198	-
3. Nebraska Public Power District.....	Public	2,962,245	828,185	1,092,833	1,041,227	-
4. Loup River Public Power Dist.....	Public	1,166,373	242,501	215,719	708,153	-
5. Southern Public Power District.....	Public	991,516	252,101	31,370	708,045	-
Total Sales, Top Five Providers .....		18,322,673	5,796,556	6,451,303	6,074,814	-
Percent of Total State Sales .....		64	60	69	64	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Nebraska</b>										
<b>Electric Utilities.....</b>	<b>5,829</b>	<b>6,667</b>	<b>6,722</b>	<b>7,007</b>	<b>7,056</b>	<b>6,959</b>	<b>7,011</b>	<b>7,675</b>	<b>99.7</b>	<b>98.8</b>
Coal.....	3,181	3,196	3,196	3,196	3,196	3,196	3,196	3,863	54.4	49.7
Petroleum.....	528	637	638	639	641	330	382	387	9.0	5.0
Natural Gas.....	723	1,317	1,374	1,589	1,630	1,889	1,874	1,864	12.4	24.0
Nuclear.....	1,234	1,233	1,232	1,238	1,238	1,240	1,252	1,252	21.1	16.1
Hydroelectric.....	162	268	266	269	272	273	278	278	2.8	3.6
Other Renewables <sup>1</sup> .....	2	16	16	76	78	30	30	30	*	0.4
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>12</b>	<b>12</b>	<b>93</b>	<b>0.3</b>	<b>1.2</b>
Coal.....	7	8	8	8	8	8	8	8	0.1	0.1
Petroleum.....	5	1	1	1	1	-	-	-	0.1	-
Natural Gas.....	1	4	2	2	2	-	-	-	*	-
Other Renewables <sup>1</sup> .....	4	5	4	4	4	5	5	86	0.1	1.1
<b>Total Electric Industry.....</b>	<b>5,846</b>	<b>6,684</b>	<b>6,738</b>	<b>7,023</b>	<b>7,071</b>	<b>6,971</b>	<b>7,024</b>	<b>7,768</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,189	3,204	3,204	3,204	3,204	3,204	3,204	3,871	54.5	49.8
Petroleum.....	533	638	639	640	642	330	382	387	9.1	5.0
Natural Gas.....	724	1,320	1,376	1,591	1,632	1,889	1,874	1,864	12.4	24.0
Nuclear.....	1,234	1,233	1,232	1,238	1,238	1,240	1,252	1,252	21.1	16.1
Hydroelectric.....	162	268	266	269	272	273	278	278	2.8	3.6
Other Renewables <sup>1</sup> .....	5	21	21	80	83	35	35	115	0.1	1.5

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Nebraska</b>										
<b>Electric Utilities.....</b>	<b>29,980,967</b>	<b>30,367,879</b>	<b>31,944,127</b>	<b>31,391,643</b>	<b>31,599,046</b>	<b>32,403,289</b>	<b>32,355,676</b>	<b>33,776,062</b>	<b>99.8</b>	<b>99.3</b>
Coal.....	17,794,136	20,907,970	20,414,960	20,772,590	20,632,855	19,611,849	21,479,723	23,307,746	59.2	68.5
Petroleum.....	28,807	47,971	21,004	30,026	18,914	35,552	34,655	22,869	0.1	0.1
Natural Gas.....	347,902	369,409	288,576	794,533	752,584	1,103,962	757,060	311,194	1.2	0.9
Other Gases <sup>1</sup> .....	-	206	142	6	-	-	-	-	-	-
Nuclear.....	10,091,092	7,996,902	10,241,254	8,801,841	9,002,656	11,041,532	9,479,039	9,435,142	33.6	27.7
Hydroelectric.....	1,719,030	980,110	913,021	871,473	893,386	347,444	346,456	433,690	5.7	1.3
Other Renewables <sup>2</sup> .....	-	65,311	65,170	121,174	298,651	262,949	258,743	265,421	-	0.8
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>74,784</b>	<b>88,105</b>	<b>64,582</b>	<b>73,091</b>	<b>70,923</b>	<b>39,410</b>	<b>17,846</b>	<b>225,830</b>	<b>0.2</b>	<b>0.7</b>
Coal.....	43,040	46,203	42,125	45,581	49,693	18,062	49	42,034	0.1	0.1
Petroleum.....	816	881	864	980	403	215	-	-	*	-
Natural Gas.....	14,726	11,669	8,814	8,450	6,217	6,058	1,427	388	*	*
Other Renewables <sup>2</sup> .....	16,202	29,352	12,779	18,080	14,610	15,075	16,370	183,408	0.1	0.5
<b>Total Electric Industry.....</b>	<b>30,055,751</b>	<b>30,455,984</b>	<b>32,008,709</b>	<b>31,464,734</b>	<b>31,669,969</b>	<b>32,442,699</b>	<b>32,373,522</b>	<b>34,001,892</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	17,837,176	20,954,173	20,457,085	20,818,171	20,682,548	19,629,911	21,479,773	23,349,780	59.3	68.7
Petroleum.....	29,623	48,852	21,868	31,005	19,317	35,767	34,655	22,869	0.1	0.1
Natural Gas.....	362,628	381,078	297,390	802,983	758,801	1,110,020	758,487	311,581	1.2	0.9
Other Gases <sup>1</sup> .....	-	206	142	6	-	-	-	-	-	-
Nuclear.....	10,091,092	7,996,902	10,241,254	8,801,841	9,002,656	11,041,532	9,479,039	9,435,142	33.6	27.7
Hydroelectric.....	1,719,030	980,110	913,021	871,473	893,386	347,444	346,456	433,690	5.7	1.3
Other Renewables <sup>2</sup> .....	16,202	94,663	77,949	139,254	313,261	278,024	275,113	448,829	0.1	1.3

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Nebraska</b>								
Coal (cents per million Btu) .....	55	60	66	71	80	88	90	W
Average heat value (Btu per pound).....	8,498	8,673	8,574	8,570	8,514	8,511	8,496	8,544
Average sulfur Content (percent).....	0.30	0.29	0.32	0.31	0.30	0.31	0.31	0.31
Petroleum (cents per million Btu) <sup>1</sup> .....	432	457	712	1,343	1,534	1,669	1,772	1,056
Average heat value (Btu per gallon).....	137,671	138,040	136,976	138,119	138,124	138,007	139,452	140,500
Average sulfur Content (percent).....	0.16	0.12	0.17	0.04	0.02	0.02	0.47	0.54
Natural Gas (cents per million Btu).....	281	564	654	824	743	899	W	W
Average heat value (Btu per cubic foot).....	995	998	995	990	984	997	1,007	999

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Nebraska</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	56	63	68	67	65	63	69	70
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	-	-	-	*	*	*	*	-
Total.....	56	63	68	67	65	63	70	70
<b>Nitrogen Oxide .....</b>								
Coal.....	40	46	44	46	41	37	40	43
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	1	1	*	11	19	1	*	*
Other Renewables <sup>1</sup> .....	*	1	1	1	1	1	1	1
Total.....	42	48	46	58	61	39	41	44
<b>Carbon Dioxide .....</b>								
Coal.....	18,677 <sup>R</sup>	21,460 <sup>R</sup>	21,134 <sup>R</sup>	21,600 <sup>R</sup>	21,451 <sup>R</sup>	20,365 <sup>R</sup>	22,042 <sup>R</sup>	23,704
Petroleum.....	31	44	21	29	19	35	31	19
Natural Gas.....	278	249	182	435	422	595	386	177
Other Gases.....	-	*	*	* <sup>R</sup>	-	-	-	-
Total.....	18,986 <sup>R</sup>	21,754 <sup>R</sup>	21,337 <sup>R</sup>	22,064 <sup>R</sup>	21,892 <sup>R</sup>	20,995 <sup>R</sup>	22,460 <sup>R</sup>	23,899

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Nebraska</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	7,929	8,852	8,757	9,309	9,294	9,748	9,749	9,627	34.8	33.8
Commercial .....	6,661	8,583	8,501	8,848	9,006	9,396	9,438	9,314	29.2	32.7
Industrial .....	6,883	8,421	8,618	8,819	8,977	9,104	9,624	9,511	30.2	33.4
Other .....	1,336	NA	NA	NA	NA	NA	NA	NA	5.9	--
All Sectors .....	22,810	25,857	25,876	26,976	27,276	28,248	28,811	28,452	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	517	608	610	665	689	740	767	820	42.7	40.0
Commercial .....	362	499	497	529	558	601	631	683	29.9	33.3
Industrial .....	246	352	369	391	409	435	496	547	20.3	26.7
Other .....	86	NA	NA	NA	NA	NA	NA	NA	7.1	--
All Sectors .....	1,212	1,458	1,475	1,584	1,656	1,775	1,894	2,050	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.52	6.87	6.96	7.14	7.41	7.59	7.87	8.52	--	--
Commercial .....	5.44	5.81	5.84	5.98	6.19	6.39	6.68	7.33	--	--
Industrial .....	3.57	4.18	4.28	4.43	4.56	4.78	5.16	5.75	--	--
Other .....	6.47	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.31	5.64	5.70	5.87	6.07	6.28	6.58	7.21	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Nebraska</b>								
Number of Entities.....	NA	149	1	10	NA	NA	NA	160
Number of Retail Customers .....	NA	971,908	16	23,151	NA	NA	NA	995,075
Retail Sales (thousand megawatthours).....	NA	27,692	164	596	NA	NA	NA	28,452
Percentage of Retail Sales .....	--	97.33	0.58	2.10	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	NA	1,981	4	65	NA	NA	NA	2,050
Percentage of Revenue .....	--	96.63	0.21	3.17	--	--	--	100.00
Average Retail Price (cents/kWh).....	NA	7.15	2.61	10.89	NA	NA	NA	7.21

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Nebraska</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	29,981	30,368	31,944	31,392	31,599	32,403	32,356	33,776
Independent Power Producers .....	-	-	-	-	-	-	-	165
Combined Heat and Power, Electric .....	9	21	*	8	4	5	5	5
<b>Electric Power Sector Generation Subtotal</b> .....	<b>29,990</b>	<b>30,389</b>	<b>31,944</b>	<b>31,400</b>	<b>31,604</b>	<b>32,408</b>	<b>32,361</b>	<b>33,945</b>
Combined Heat and Power, Commercial .....	18	20	22	19	17	17	13	14
Combined Heat and Power, Industrial.....	48	46	42	46	50	18	*	42
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>66</b>	<b>67</b>	<b>65</b>	<b>65</b>	<b>66</b>	<b>35</b>	<b>13</b>	<b>56</b>
<b>Total Net Generation</b> .....	<b>30,056</b>	<b>30,456</b>	<b>32,009</b>	<b>31,465</b>	<b>31,670</b>	<b>32,443</b>	<b>32,374</b>	<b>34,002</b>
<b>Total International Imports</b> .....	<b>27</b>	<b>2</b>	<b>-</b>	<b>*</b>	<b>*</b>	<b>10</b>	<b>*</b>	<b>-</b>
<b>Total Supply</b> .....	<b>30,082</b>	<b>30,458</b>	<b>32,009</b>	<b>31,465</b>	<b>31,670</b>	<b>32,452</b>	<b>32,374</b>	<b>34,002</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	22,810	25,857	25,876	26,976	27,276	28,248	28,811	28,452
<b>Total Electric Industry Retail Sales</b> .....	<b>22,810</b>	<b>25,857</b>	<b>25,876</b>	<b>26,976</b>	<b>27,276</b>	<b>28,248</b>	<b>28,811</b>	<b>28,452</b>
<b>Direct Use</b> .....	<b>75</b>	<b>72</b>	<b>72</b>	<b>75</b>	<b>73</b>	<b>46</b>	<b>18</b>	<b>61</b>
<b>Total International Exports</b> .....	<b>68</b>	<b>-</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>*</b>	<b>*</b>
<b>Estimated Losses</b> .....	<b>1,653</b>	<b>1,845</b>	<b>2,119</b>	<b>2,322<sup>R</sup></b>	<b>2,437</b>	<b>2,781<sup>R</sup></b>	<b>2,806<sup>R</sup></b>	<b>2,686</b>
<b>Net Interstate Trade<sup>1</sup></b> .....	<b>5,476</b>	<b>2,684<sup>R</sup></b>	<b>3,939</b>	<b>2,088</b>	<b>1,882</b>	<b>1,377<sup>R</sup></b>	<b>739<sup>R</sup></b>	<b>2,803</b>
<b>Total Disposition</b> .....	<b>30,082<sup>R</sup></b>	<b>30,458<sup>R</sup></b>	<b>32,009<sup>R</sup></b>	<b>31,465<sup>R</sup></b>	<b>31,670<sup>R</sup></b>	<b>32,452<sup>R</sup></b>	<b>32,374<sup>R</sup></b>	<b>34,002</b>
<b>Net Trade Index (ratio)<sup>2</sup></b> .....	<b>1.22</b>	<b>1.10</b>	<b>1.14</b>	<b>1.07</b>	<b>1.06</b>	<b>1.04<sup>R</sup></b>	<b>1.02<sup>R</sup></b>	<b>1.09</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Nevada</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Gas
<b>Net Summer Capacity (megawatts) .....</b>	<b>11,396</b>	<b>34</b>
Electric Utilities.....	8,741	28
Independent Power Producers & Combined Heat and Power.....	2,656	33
<b>Net Generation (megawatthours).....</b>	<b>37,705,133</b>	<b>37</b>
Electric Utilities.....	26,095,005	34
Independent Power Producers & Combined Heat and Power.....	11,610,128	29
<b>Emissions (thousand metric tons) .....</b>		
Sulfur Dioxide .....	7	44
Nitrogen Oxide .....	17	39
Carbon Dioxide.....	18,295	36
Sulfur Dioxide (lbs/MWh) .....	0.4	46
Nitrogen Oxide (lbs/MWh) .....	1.0	35
Carbon Dioxide (lbs/MWh).....	1,070	35
<b>Total Retail Sales (megawatthours).....</b>	<b>34,283,654</b>	<b>33</b>
Full Service Provider Sales (megawatthours) .....	32,804,555	32
Energy-Only Provider Sales (megawatthours).....	1,479,099	19
<b>Direct Use (megawatthours) .....</b>	<b>12,870</b>	<b>47</b>
<b>Average Retail Price (cents/kWh).....</b>	<b>10.36</b>	<b>16</b>

MWh = Megawatthours.  
kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Nevada</b>			
1. Mohave .....	Gas	Southern California Edison Co	1,580
2. Clark .....	Gas	Nevada Power Co	1,138
3. Chuck Lenzie Generating Station.....	Gas	Nevada Power Co	1,128
4. Tracy.....	Gas	Sierra Pacific Power Co	1,054
5. Hoover Dam .....	Hydroelectric	U S Bureau of Reclamation	1,039
6. Reid Gardner.....	Coal	Nevada Power Co	587
7. Higgins Generating Station .....	Gas	Nevada Power Co	570
8. Silverhawk .....	Gas	Nevada Power Co	560
9. North Valmy .....	Coal	Sierra Pacific Power Co	522
10. Apex Generating Station .....	Gas	Las Vegas Power Company LLC	494

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Nevada Power Co.....	Investor-Owned	21,197,433	8,893,542	4,646,142	7,649,410	8,339
2. Sierra Pacific Power Co.....	Investor-Owned	7,637,373	2,235,306	2,958,382	2,443,685	-
3. Colorado River Comm of Nevada.....	Public	1,643,004	-	964,217	678,787	-
4. Coral Power LLC.....	Other Provider	1,069,005	-	-	1,069,005	-
5. Wells Rural Electric Co.....	Cooperative	791,039	50,394	52,715	687,930	-
Total Sales, Top Five Providers .....		32,337,854	11,179,242	8,621,456	12,528,817	8,339
Percent of Total State Sales .....		94	94	96	93	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>5,434</b>	<b>5,323</b>	<b>5,389</b>	<b>5,611</b>	<b>6,771</b>	<b>6,998</b>	<b>8,741</b>	<b>8,741</b>	<b>80.5</b>	<b>76.7</b>
Coal.....	2,806	2,657	2,657	2,657	2,657	2,689	2,689	2,689	41.6	23.6
Petroleum.....	46	45	45	45	45	45	45	45	0.7	0.4
Natural Gas.....	1,533	1,576	1,642	1,862	3,023	3,217	4,964	4,964	22.7	43.6
Hydroelectric.....	1,049	1,045	1,045	1,047	1,047	1,048	1,043	1,043	15.5	9.2
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,313</b>	<b>2,185</b>	<b>3,281</b>	<b>3,103</b>	<b>2,876</b>	<b>2,956</b>	<b>2,557</b>	<b>2,656</b>	<b>19.5</b>	<b>23.3</b>
Coal.....	-	-	-	-	-	-	227	227	-	2.0
Natural Gas.....	1,106	2,007	3,137	2,917	2,688	2,688	2,018	2,026	16.4	17.8
Hydroelectric.....	4	6	2	-	-	-	8	8	0.1	0.1
Other Renewables <sup>1</sup> .....	203	172	142	185	188	268	304	395	3.0	3.5
<b>Total Electric Industry.....</b>	<b>6,747</b>	<b>7,508</b>	<b>8,670</b>	<b>8,714</b>	<b>9,648</b>	<b>9,954</b>	<b>11,297</b>	<b>11,396</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,806	2,657	2,657	2,657	2,657	2,689	2,916	2,916	41.6	25.6
Petroleum.....	46	45	45	45	45	45	45	45	0.7	0.4
Natural Gas.....	2,639	3,583	4,779	4,779	5,711	5,905	6,982	6,990	39.1	61.3
Hydroelectric.....	1,053	1,051	1,047	1,047	1,047	1,048	1,051	1,051	15.6	9.2
Other Renewables <sup>1</sup> .....	203	172	142	185	188	268	304	395	3.0	3.5

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Nevada</b>										
<b>Electric Utilities.....</b>	<b>26,485,602</b>	<b>24,634,871</b>	<b>24,246,391</b>	<b>24,112,225</b>	<b>19,686,302</b>	<b>22,376,989</b>	<b>22,979,409</b>	<b>26,095,005</b>	<b>86.7</b>	<b>69.2</b>
Coal.....	16,907,530	17,085,959	18,257,265	18,384,261	7,253,521	7,090,911	6,884,521	6,376,887	55.4	16.9
Petroleum.....	35,418	16,793	95,766	20,500	17,347	11,447	9,865	8,472	0.1	*
Natural Gas.....	6,735,492	5,784,181	4,288,157	4,005,084	10,357,808	13,271,440	14,342,535	17,283,168	22.1	45.8
Hydroelectric.....	2,807,162	1,747,938	1,605,203	1,702,380	2,057,626	2,003,191	1,742,489	2,425,588	9.2	6.4
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	-	890	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>4,046,529</b>	<b>8,560,017</b>	<b>13,421,044</b>	<b>16,101,527</b>	<b>12,173,720</b>	<b>10,292,747</b>	<b>12,110,565</b>	<b>11,610,128</b>	<b>13.3</b>	<b>30.8</b>
Coal.....	-	-	-	-	-	-	927,832	1,163,050	-	3.1
Petroleum.....	59	-	-	-	-	3	4,405	7,712	*	*
Natural Gas.....	2,611,049	7,468,598	12,092,586	14,830,539	10,826,327	8,991,830	9,629,377	8,594,453	8.6	22.8
Other Gases <sup>2</sup> .....	-	16,941	21,033	8,281	3,682	4,256	1,987	2,385	-	*
Hydroelectric.....	20,509	8,767	9,920	-	-	-	8,131	35,007	0.1	0.1
Other Renewables <sup>1</sup> .....	1,414,912	1,065,711	1,297,504	1,262,707	1,343,711	1,296,658	1,538,833	1,807,522	4.6	4.8
<b>Total Electric Industry.....</b>	<b>30,532,131</b>	<b>33,194,888</b>	<b>37,667,435</b>	<b>40,213,752</b>	<b>31,860,022</b>	<b>32,669,736</b>	<b>35,089,974</b>	<b>37,705,133</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	16,907,530	17,085,959	18,257,265	18,384,261	7,253,521	7,090,911	7,812,352	7,539,936	55.4	20.0
Petroleum.....	35,477	16,793	95,766	20,500	17,347	11,450	14,270	16,184	0.1	*
Natural Gas.....	9,346,541	13,252,779	16,380,743	18,835,623	21,184,135	22,263,270	23,971,911	25,877,621	30.6	68.6
Other Gases <sup>2</sup> .....	-	16,941	21,033	8,281	3,682	4,256	1,987	2,385	-	*
Hydroelectric.....	2,827,671	1,756,705	1,615,123	1,702,380	2,057,626	2,003,191	1,750,620	2,460,595	9.3	6.5
Other Renewables <sup>1</sup> .....	1,414,912	1,065,711	1,297,504	1,262,707	1,343,711	1,296,658	1,538,833	1,808,412	4.6	4.8

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Nevada</b>								
Coal (cents per million Btu) .....	129	142	136	154	173	188	W	W
Average heat value (Btu per pound).....	11,257	11,120	11,118	11,176	11,495	11,151	10,664	10,505
Average sulfur Content (percent).....	0.46	0.50	0.54	0.53	0.54	0.46	0.44	0.42
Petroleum (cents per million Btu) <sup>1</sup> .....	453	601	473	990	1,270	-	W	W
Average heat value (Btu per gallon).....	139,110	138,548	149,914	141,760	140,610	-	138,938	138,386
Average sulfur Content (percent).....	0.25	0.26	0.86	0.34	0.31	-	0.12	0.06
Natural Gas (cents per million Btu).....	242	511	556	723	653	605	797	533
Average heat value (Btu per cubic foot).....	1,037	1,040	1,036	1,033	1,040	1,044	1,039	1,033

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Nevada</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	44	47	49	48	8	8	8	7
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other <sup>1</sup> .....	-	-	-	-	*	*	-	-
Total.....	44	47	50	48	8	8	9	7
<b>Nitrogen Oxide .....</b>								
Coal.....	33	34	35	36	15	13	11	10
Petroleum.....	2	*	*	*	*	*	*	*
Natural Gas.....	8	8	8	8	15	15	10	7
Other Gases.....	-	-	*	*	-	-	*	*
Other <sup>1</sup> .....	-	*	*	*	1	1	-	-
Total.....	43	42	43	44	31	29	22	17
<b>Carbon Dioxide .....</b>								
Coal.....	16,280 <sup>R</sup>	16,917 <sup>R</sup>	17,599 <sup>R</sup>	18,014 <sup>R</sup>	7,415 <sup>R</sup>	7,292 <sup>R</sup>	7,943 <sup>R</sup>	7,621
Petroleum.....	34	15	80	19	17	11	12	14
Natural Gas.....	4,989	6,303	7,496	8,133	9,284	9,574	10,153	10,618
Geothermal.....	36	27	33	32	35	32	36	42
Total.....	21,339 <sup>R</sup>	23,262 <sup>R</sup>	25,209 <sup>R</sup>	26,199 <sup>R</sup>	16,750 <sup>R</sup>	16,909 <sup>R</sup>	18,144 <sup>R</sup>	18,295

<sup>1</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Nevada</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	8,386	10,340	10,673	11,080	11,978	12,390	12,061	11,880	31.9	34.7
Commercial .....	6,049	8,168	8,275	8,516	8,975	9,352	9,304	8,950	23.0	26.1
Industrial .....	10,861	11,624	12,364	12,897	13,625	13,893	13,820	13,445	41.4	39.2
Other .....	958	NA	NA	NA	NA	NA	NA	NA	3.6	--
Transportation.....	NA	NA	NA	8	8	8	8	8	--	*
All Sectors .....	26,253	30,132	31,312	32,501	34,586	35,643	35,192	34,284	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	598	932	1,034	1,130	1,327	1,464	1,439	1,527	38.4	43.0
Commercial .....	403	718	752	808	908	944	937	953	25.9	26.8
Industrial .....	518	849	895	994	1,094	1,151	1,103	1,072	33.3	30.2
Other .....	38	NA	NA	NA	NA	NA	NA	NA	2.4	--
Transportation.....	NA	NA	NA	1	1	1	1	1	--	*
All Sectors .....	1,556	2,499	2,681	2,932	3,330	3,559	3,479	3,553	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.13	9.02	9.69	10.20	11.08	11.82	11.93	12.86	--	--
Commercial .....	6.66	8.79	9.08	9.48	10.12	10.09	10.07	10.64	--	--
Industrial .....	4.77	7.30	7.24	7.71	8.03	8.28	7.98	7.97	--	--
Other .....	3.94	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	NA	9.34	9.89	9.98	9.47	9.95	--	--
All Sectors .....	5.93	8.29	8.56	9.02	9.63	9.99	9.89	10.36	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	2	8	1	8	1	2	2	24
Number of Retail Customers .....	1,146,800	28,769	6	36,598	1	39	NA	1,212,213
Retail Sales (thousand megawatthours).....	28,835	2,051	29	1,858	32	1,479	NA	34,284
Percentage of Retail Sales .....	84.11	5.98	0.08	5.42	0.09	4.31	--	100.00
Revenue from Retail Sales (million dollars) .....	3,224	113	*	118	7	86	4	3,553
Percentage of Revenue .....	90.75	3.18	0.01	3.33	0.21	2.41	0.11	100.00
Average Retail Price (cents/kWh).....	11.18	5.51	0.88	6.37	23.12	5.78	0.27	10.36

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Nevada</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	26,486	24,635	24,246	24,112	19,686	22,377	22,979	26,095
Independent Power Producers .....	1,712	5,324	11,022	13,955	9,546	7,624	9,872	9,393
Combined Heat and Power, Electric .....	2,335	3,236	2,399	2,146	2,282	2,257	1,900	2,013
<b>Electric Power Sector Generation Subtotal</b> .....	<b>30,532</b>	<b>33,195</b>	<b>37,667</b>	<b>40,214</b>	<b>31,515</b>	<b>32,257</b>	<b>34,751</b>	<b>37,500</b>
Combined Heat and Power, Industrial.....	-	-	-	-	345	412	339	205
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>345</b>	<b>412</b>	<b>339</b>	<b>205</b>
<b>Total Net Generation</b> .....	<b>30,532</b>	<b>33,195</b>	<b>37,667</b>	<b>40,214</b>	<b>31,860</b>	<b>32,670</b>	<b>35,090</b>	<b>37,705</b>
<b>Total International Imports</b> .....	<b>-</b>	<b>221</b>	<b>203</b>	<b>288</b>	<b>157</b>	<b>344</b>	<b>102</b>	<b>37</b>
<b>Total Supply</b> .....	<b>30,532</b>	<b>33,416</b>	<b>37,870</b>	<b>40,502</b>	<b>32,017</b>	<b>33,013</b>	<b>35,192</b>	<b>37,742</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	26,253	30,132	31,311	32,326	33,330	34,344	33,824	32,773
Energy-Only Providers.....	-	-	2	175	1,256	1,299	1,336	1,479
Facility Direct Retail Sales <sup>1</sup> .....	-	-	-	-	-	-	33	32
<b>Total Electric Industry Retail Sales</b> .....	<b>26,253</b>	<b>30,132</b>	<b>31,312</b>	<b>32,501</b>	<b>34,586</b>	<b>35,643</b>	<b>35,192</b>	<b>34,284</b>
<b>Direct Use</b> .....	<b>244</b>	<b>232</b>	<b>233</b>	<b>587</b>	<b>893</b>	<b>15<sup>R</sup></b>	<b>47<sup>R</sup></b>	<b>13</b>
<b>Total International Exports</b> .....	<b>-</b>	<b>-</b>	<b>15</b>	<b>43</b>	<b>67</b>	<b>43</b>	<b>67</b>	<b>72</b>
<b>Estimated Losses</b> .....	<b>1,903</b>	<b>1,287</b>	<b>1,659</b>	<b>1,670</b>	<b>2,096</b>	<b>2,340<sup>R</sup></b>	<b>1,152<sup>R</sup></b>	<b>1,703</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>2,132</b>	<b>1,765</b>	<b>4,652</b>	<b>5,701<sup>R</sup></b>	<b>-5,625</b>	<b>-5,028<sup>R</sup></b>	<b>-1,266<sup>R</sup></b>	<b>1,671</b>
<b>Total Disposition</b> .....	<b>30,532<sup>R</sup></b>	<b>33,416<sup>R</sup></b>	<b>37,870<sup>R</sup></b>	<b>40,502<sup>R</sup></b>	<b>32,017<sup>R</sup></b>	<b>33,013<sup>R</sup></b>	<b>35,192<sup>R</sup></b>	<b>37,742</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.08</b>	<b>1.06</b>	<b>1.14</b>	<b>1.16</b>	<b>0.85</b>	<b>0.87<sup>R</sup></b>	<b>0.97</b>	<b>1.05</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>New Hampshire</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	4,165	43
Electric Utilities.....	1,118	41
Independent Power Producers & Combined Heat and Power.....	3,047	31
Net Generation (megawatthours).....	20,164,122	42
Electric Utilities.....	3,788,395	41
Independent Power Producers & Combined Heat and Power.....	16,375,727	20
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	31	34
Nitrogen Oxide.....	5	47
Carbon Dioxide.....	5,507	43
Sulfur Dioxide (lbs/MWh) .....	3.4	22
Nitrogen Oxide (lbs/MWh) .....	0.6	44
Carbon Dioxide (lbs/MWh).....	602	45
Total Retail Sales (megawatthours).....	10,698,493	47
Full Service Provider Sales (megawatthours) .....	8,776,576	45
Energy-Only Provider Sales (megawatthours).....	1,921,917	18
Direct Use (megawatthours) .....	82,821	43
Average Retail Price (cents/kWh).....	15.13	5

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>New Hampshire</b>			
1. Seabrook .....	Nuclear	NextEra Energy Seabrook LLC	1,247
2. Granite Ridge.....	Gas	Granite Ridge Energy LLC	661
3. NAEA Newington Power .....	Gas	NAEA Newington Energy LLC	525
4. Merrimack .....	Coal	Public Service Co of NH	466
5. Newington .....	Petroleum	Public Service Co of NH	400
6. S C Moore.....	Hydroelectric	TransCanada Hydro Northeast Inc.,	194
7. Schiller.....	Coal	Public Service Co of NH	156
8. Comerford.....	Hydroelectric	TransCanada Hydro Northeast Inc.,	145
9. Berlin Gorham .....	Hydroelectric	Great Lakes Hydro America LLC	30
10. Lempster Wind LLC.....	Other Renewables	Iberdrola Renewable Energies USA	24

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Public Service Co of NH .....	Investor-Owned	6,465,435	3,095,826	2,759,950	609,659	-
2. Unitil Energy Systems .....	Investor-Owned	883,890	480,229	308,430	95,231	-
3. New Hampshire Elec Coop Inc .....	Cooperative	679,138	441,196	205,122	32,820	-
4. Constellation NewEnergy, Inc.....	Other Provider	657,347	-	499,584	157,763	-
5. Granite State Electric Co .....	Investor-Owned	599,938	284,095	283,461	32,382	-
Total Sales, Top Five Providers .....		9,285,748	4,301,346	4,056,547	927,855	-
Percent of Total State Sales .....		87	97	91	51	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Hampshire</b>										
<b>Electric Utilities.....</b>	<b>2,294</b>	<b>1,121</b>	<b>1,121</b>	<b>1,121</b>	<b>1,116</b>	<b>1,121</b>	<b>1,125</b>	<b>1,118</b>	<b>80.5</b>	<b>26.8</b>
Coal.....	578	575	575	575	528	528	528	528	20.3	12.7
Petroleum.....	492	481	482	482	482	482	482	482	17.2	11.6
Nuclear.....	1,161	-	-	-	-	-	-	-	40.7	-
Hydroelectric .....	64	65	64	64	68	65	69	64	2.2	1.5
Other Renewables <sup>1</sup> .....	-	-	-	-	37	46	46	43	-	1.0
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>556</b>	<b>3,123</b>	<b>3,149</b>	<b>3,200</b>	<b>3,224</b>	<b>3,159</b>	<b>3,049</b>	<b>3,047</b>	<b>19.5</b>	<b>73.2</b>
Petroleum.....	48	32	46	47	47	20	20	18	1.7	0.4
Natural Gas .....	-	1,354	1,354	1,354	1,354	1,341	1,205	1,198	-	28.8
Nuclear.....	-	1,159	1,159	1,220	1,244	1,245	1,245	1,247	-	30.0
Hydroelectric .....	379	447	454	443	443	429	431	434	13.3	10.4
Other Renewables <sup>1</sup> .....	129	131	136	136	136	124	148	150	4.5	3.6
<b>Total Electric Industry.....</b>	<b>2,851</b>	<b>4,244</b>	<b>4,270</b>	<b>4,321</b>	<b>4,340</b>	<b>4,280</b>	<b>4,174</b>	<b>4,165</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	578	575	575	575	528	528	528	528	20.3	12.7
Petroleum.....	539	513	528	529	529	503	503	501	18.9	12.0
Natural Gas .....	-	1,354	1,354	1,354	1,354	1,341	1,205	1,198	-	28.8
Nuclear.....	1,161	1,159	1,159	1,220	1,244	1,245	1,245	1,247	40.7	30.0
Hydroelectric .....	443	511	518	507	512	494	500	498	15.6	12.0
Other Renewables <sup>1</sup> .....	129	131	136	136	173	169	193	193	4.5	4.6

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Hampshire</b>										
<b>Electric Utilities.....</b>	<b>13,875,659</b>	<b>6,231,573</b>	<b>6,169,110</b>	<b>5,638,000</b>	<b>4,574,520</b>	<b>4,887,753</b>	<b>4,348,148</b>	<b>3,788,395</b>	<b>85.7</b>	<b>18.8</b>
Coal.....	3,328,263	3,923,303	4,076,075	4,072,987	3,885,433	3,927,415	3,450,770	2,885,668	20.6	14.3
Petroleum.....	1,486,482	1,976,692	1,770,459	1,187,323	230,474	302,952	111,375	148,562	9.2	0.7
Natural Gas.....	45,461	87	78	1,114	61,054	14,104	5,992	34,798	0.3	0.2
Nuclear.....	8,676,237	-	-	-	-	-	-	-	53.6	-
Hydroelectric.....	339,216	331,491	322,498	376,576	342,231	325,226	396,042	401,855	2.1	2.0
Other Renewables <sup>1</sup> .....	-	-	-	-	55,328	318,056	383,970	317,511	-	1.6
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,313,588</b>	<b>15,365,534</b>	<b>17,706,677</b>	<b>18,832,013</b>	<b>17,489,175</b>	<b>18,389,418</b>	<b>18,528,843</b>	<b>16,375,727</b>	<b>14.3</b>	<b>81.2</b>
Petroleum.....	85,531	67,834	189,993	169,821	208,719	81,844	24,907	34,519	0.5	0.2
Natural Gas.....	28,994	4,165,378	5,399,687	6,783,621	5,945,552	5,739,910	7,067,359	5,307,559	0.2	26.3
Nuclear.....	-	9,276,288	10,177,573	9,455,885	9,397,856	10,763,884	9,350,314	8,816,673	-	43.7
Hydroelectric.....	1,072,066	999,778	993,258	1,422,327	1,186,679	940,003	1,237,182	1,278,637	6.6	6.3
Other Renewables <sup>1</sup> .....	1,126,997	795,896	883,251	941,897	691,052	805,216	791,014	880,425	7.0	4.4
Other <sup>2</sup> .....	-	60,360	62,915	58,462	59,317	58,561	58,068	57,915	-	0.3
<b>Total Electric Industry.....</b>	<b>16,189,247</b>	<b>21,597,107</b>	<b>23,875,787</b>	<b>24,470,013</b>	<b>22,063,695</b>	<b>23,277,171</b>	<b>22,876,992</b>	<b>20,164,122</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,328,263	3,923,303	4,076,075	4,072,987	3,885,433	3,927,415	3,450,770	2,885,668	20.6	14.3
Petroleum.....	1,572,013	2,044,526	1,960,452	1,357,144	439,193	384,795	136,281	183,081	9.7	0.9
Natural Gas.....	74,455	4,165,465	5,399,765	6,784,735	6,006,606	5,754,015	7,073,351	5,342,357	0.5	26.5
Nuclear.....	8,676,237	9,276,288	10,177,573	9,455,885	9,397,856	10,763,884	9,350,314	8,816,673	53.6	43.7
Hydroelectric.....	1,411,282	1,331,269	1,315,756	1,798,903	1,528,910	1,265,229	1,633,224	1,680,492	8.7	8.3
Other Renewables <sup>1</sup> .....	1,126,997	795,896	883,251	941,897	746,380	1,123,272	1,174,984	1,197,936	7.0	5.9
Other <sup>2</sup> .....	-	60,360	62,915	58,462	59,317	58,561	58,068	57,915	-	0.3

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Hampshire</b>								
Coal (cents per million Btu) .....	152	170	202	244	256	290	353	366
Average heat value (Btu per pound).....	13,133	13,262	13,199	13,087	13,196	13,109	12,886	12,849
Average sulfur Content (percent).....	1.35	1.09	1.16	1.32	1.29	1.51	1.20	1.44
Petroleum (cents per million Btu) <sup>1</sup> .....	214	W	W	W	782	W	1,069	W
Average heat value (Btu per gallon).....	153,221	152,724	152,883	154,024	155,071	152,450	152,379	151,240
Average sulfur Content (percent).....	1.54	1.52	1.39	1.15	1.01	0.86	0.87	0.88
Natural Gas (cents per million Btu).....	261	W	W	W	W	W	W	W
Average heat value (Btu per cubic foot).....	1,024	1,047	1,045	1,044	1,043	1,056	1,049	1,035

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Hampshire</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	36	30	34	37	35	36	33	29
Petroleum.....	16	21	17	9	2	3	1	1
Natural Gas.....	-	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	1	1	*	*	*	*	*
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	52	52	52	47	37	39	34	31
<b>Nitrogen Oxide .....</b>								
Coal.....	9	5	5	6	6	4	4	3
Petroleum.....	3	4	3	2	1	1	*	*
Natural Gas.....	*	2	1	1	1	*	*	*
Other Renewables <sup>1</sup> .....	3 <sup>R</sup>	2	2	2	1 <sup>R</sup>	1 <sup>R</sup>	2	1
Other <sup>2</sup> .....	1 <sup>R</sup>	*	*	* <sup>R</sup>	*	*	*	*
Total.....	16	13	12	11	9	7	6	5
<b>Carbon Dioxide .....</b>								
Coal.....	3,294 <sup>R</sup>	3,878 <sup>R</sup>	4,047 <sup>R</sup>	4,109 <sup>R</sup>	4,169 <sup>R</sup>	4,179 <sup>R</sup>	3,752 <sup>R</sup>	3,063
Petroleum.....	1,590	1,835	1,844	1,340	437	379	181	217
Natural Gas.....	96	1,849	2,241	2,679	2,410	2,244	2,734	2,111
Other <sup>2</sup> .....	99 <sup>R</sup>	110	113	113	114	110	115	116
Total.....	5,079 <sup>R</sup>	7,672 <sup>R</sup>	8,246 <sup>R</sup>	8,240 <sup>R</sup>	7,130 <sup>R</sup>	6,912 <sup>R</sup>	6,782 <sup>R</sup>	5,507

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Hampshire</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	3,640	4,252	4,282	4,495	4,401	4,493	4,394	4,422	36.8	41.3
Commercial .....	3,604	4,318	4,363	4,576	4,563	4,570	4,518	4,441	36.4	41.5
Industrial .....	2,516	2,403	2,328	2,174	2,131	2,173	2,065	1,836	25.4	17.2
Other .....	128	NA	NA	NA	NA	NA	NA	NA	1.3	--
All Sectors .....	9,888	10,973	10,973	11,245	11,094	11,236	10,977	10,698	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	496	509	535	607	646	668	689	719	43.3	44.4
Commercial .....	403	445	480	552	642	636	647	646	35.1	39.9
Industrial.....	231	234	233	249	248	267	272	254	20.2	15.7
Other.....	16	NA	NA	NA	NA	NA	NA	NA	1.4	--
All Sectors .....	1,147	1,188	1,248	1,408	1,536	1,571	1,608	1,619	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	13.64	11.98	12.49	13.51	14.68	14.88	15.68	16.26	--	--
Commercial .....	11.18	10.30	10.99	12.06	14.07	13.91	14.32	14.55	--	--
Industrial.....	9.19	9.75	10.01	11.48	11.62	12.27	13.17	13.83	--	--
Other.....	12.78	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	11.60	10.83	11.37	12.53	13.84	13.98	14.65	15.13	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>New Hampshire</b>								
Number of Entities.....	3	5	NA	1	2	8	4	23
Number of Retail Customers .....	595,676	12,087	NA	78,075	3	1,146	NA	686,987
Retail Sales (thousand megawatthours).....	7,908	178	NA	679	11	1,922	NA	10,698
Percentage of Retail Sales .....	73.92	1.66	--	6.35	0.11	17.96	--	100.00
Revenue from Retail Sales (million dollars).....	1,173	26	NA	130	8	187	95	1,619
Percentage of Revenue .....	72.47	1.59	--	8.01	0.49	11.57	5.87	100.00
Average Retail Price (cents/kWh).....	14.77	14.43	NA	19.09	70.04	9.75	4.95	15.13

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Hampshire</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	13,876	6,232	6,169	5,638	4,575	4,888	4,348	3,788
Independent Power Producers .....	1,818	15,014	17,315	18,438	17,297	18,237	18,471	16,314
Combined Heat and Power, Electric .....	94	-	-	-	-	-	-	-
<b>Electric Power Sector Generation Subtotal</b> .....	<b>15,788</b>	<b>21,245</b>	<b>23,484</b>	<b>24,076</b>	<b>21,872</b>	<b>23,125</b>	<b>22,819</b>	<b>20,103</b>
Combined Heat and Power, Commercial .....	28	34	33	30	25	28	18	27
Combined Heat and Power, Industrial.....	373	318	358	364	167	124	40	35
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>401</b>	<b>352</b>	<b>392</b>	<b>394</b>	<b>192</b>	<b>152</b>	<b>58</b>	<b>62</b>
<b>Total Net Generation</b> .....	<b>16,189</b>	<b>21,597</b>	<b>23,876</b>	<b>24,470</b>	<b>22,064</b>	<b>23,277</b>	<b>22,877</b>	<b>20,164</b>
<b>Total International Imports</b> .....	<b>1,934</b>	<b>200</b>	<b>452</b>	<b>576<sup>R</sup></b>	<b>583</b>	<b>794</b>	<b>939</b>	<b>1,102</b>
<b>Total Supply</b> .....	<b>18,124</b>	<b>21,797</b>	<b>24,328</b>	<b>25,046<sup>R</sup></b>	<b>22,647</b>	<b>24,071</b>	<b>23,816</b>	<b>21,266</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	9,723	10,668	10,848	11,111	10,045	9,820	10,101	8,765
Energy-Only Providers.....	165	148	110	123	1,046	1,404	871	1,922
Facility Direct Retail Sales <sup>1</sup> .....	-	156	15	11	4	12	6	11
<b>Total Electric Industry Retail Sales</b> .....	<b>9,888</b>	<b>10,973</b>	<b>10,973</b>	<b>11,245</b>	<b>11,094</b>	<b>11,236</b>	<b>10,977</b>	<b>10,698</b>
<b>Direct Use</b> .....	<b>461</b>	<b>456</b>	<b>456</b>	<b>216</b>	<b>125</b>	<b>117<sup>R</sup></b>	<b>51<sup>R</sup></b>	<b>83</b>
<b>Total International Exports</b> .....	<b>*</b>	<b>53</b>	<b>28</b>	<b>75<sup>R</sup></b>	<b>106</b>	<b>174</b>	<b>74<sup>R</sup></b>	<b>71</b>
<b>Estimated Losses</b> .....	<b>717</b>	<b>391</b>	<b>618</b>	<b>668</b>	<b>695</b>	<b>798<sup>R</sup></b>	<b>757<sup>R</sup></b>	<b>475</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>7,058</b>	<b>9,925</b>	<b>12,252</b>	<b>12,843<sup>R</sup></b>	<b>10,627</b>	<b>11,745<sup>R</sup></b>	<b>11,956<sup>R</sup></b>	<b>9,939</b>
<b>Total Disposition</b> .....	<b>18,124<sup>R</sup></b>	<b>21,797<sup>R</sup></b>	<b>24,328<sup>R</sup></b>	<b>25,046<sup>R</sup></b>	<b>22,647<sup>R</sup></b>	<b>24,071<sup>R</sup></b>	<b>23,816<sup>R</sup></b>	<b>21,266</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.64</b>	<b>1.84</b>	<b>2.01</b>	<b>2.05</b>	<b>1.88</b>	<b>1.95<sup>R</sup></b>	<b>2.01<sup>R</sup></b>	<b>1.88</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>New Jersey</b>		
NERC Region(s).....		RFC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	18,499	22
Electric Utilities.....	466	43
Independent Power Producers & Combined Heat and Power.....	18,033	6
Net Generation (megawatthours).....	61,811,239	23
Electric Utilities.....	-186,672	50
Independent Power Producers & Combined Heat and Power.....	61,997,911	6
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	12	42
Nitrogen Oxide.....	14	41
Carbon Dioxide.....	16,086	38
Sulfur Dioxide (lbs/MWh) .....	0.4	45
Nitrogen Oxide (lbs/MWh) .....	0.5	46
Carbon Dioxide (lbs/MWh).....	574	46
Total Retail Sales (megawatthours).....	75,779,853	20
Full Service Provider Sales (megawatthours) .....	54,343,721	24
Energy-Only Provider Sales (megawatthours).....	21,436,132	5
Direct Use (megawatthours) .....	1,265,628	21
Average Retail Price (cents/kWh).....	14.52	7

MWh = Megawatthours.  
kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>New Jersey</b>			
1. PSEG Salem Generating Station .....	Nuclear	PSEG Nuclear LLC	2,370
2. PSEG Linden Generating Station.....	Gas	PSEG Fossil LLC	1,587
3. Bergen Generating Station .....	Gas	PSEG Fossil LLC	1,199
4. PSEG Hope Creek Generating Station .....	Nuclear	PSEG Nuclear LLC	1,161
5. PSEG Hudson Generating Station.....	Coal	PSEG Fossil LLC	930
6. Linden Cogen Plant .....	Gas	Cogen Technologies Linden Vent	900
7. AES Red Oak LLC.....	Gas	AES Red Oak LLC	766
8. PSEG Mercer Generating Station.....	Coal	PSEG Fossil LLC	753
9. PSEG Essex Generating Station.....	Gas	PSEG Fossil LLC	617
10. Oyster Creek.....	Nuclear	Exelon Nuclear	615

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>New Jersey</b>						
1. Public Service Elec & Gas Co.....	Investor-Owned	29,099,214	12,991,432	14,715,320	1,376,047	16,415
2. Jersey Central Power & Lt Co.....	Investor-Owned	15,348,356	9,213,189	5,596,402	538,765	-
3. Atlantic City Electric Co.....	Investor-Owned	7,058,241	4,280,205	2,549,078	228,958	-
4. Hess Retail Natural Gas and Elec. Acctg.....	Other Provider	4,844,267	-	1,771,175	3,073,092	-
5. Constellation NewEnergy, Inc.....	Other Provider	3,431,615	-	3,149,475	-	282,140
Total Sales, Top Five Providers.....		59,781,693	26,484,826	27,781,450	5,216,862	298,555
Percent of Total State Sales.....		79	95	71	63	93

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Jersey</b>										
<b>Electric Utilities.....</b>	<b>12,085</b>	<b>1,244</b>	<b>1,005</b>	<b>1,005</b>	<b>1,005</b>	<b>558</b>	<b>477</b>	<b>466</b>	<b>73.1</b>	<b>2.5</b>
Coal.....	1,643	387	307	307	307	23	23	23	9.9	0.1
Petroleum.....	2,373	286	232	232	232	69	54	43	14.3	0.2
Natural Gas.....	3,807	171	66	66	66	66	-	-	23.0	-
Nuclear.....	3,862	-	-	-	-	-	-	-	23.3	-
Pumped Storage.....	400	400	400	400	400	400	400	400	2.4	2.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>4,456</b>	<b>17,403</b>	<b>17,159</b>	<b>16,531</b>	<b>17,966</b>	<b>17,794</b>	<b>18,031</b>	<b>18,033</b>	<b>26.9</b>	<b>97.5</b>
Coal.....	483	1,737	1,817	1,770	1,817	2,031	2,031	2,042	2.9	11.0
Petroleum.....	12	2,921	2,582	1,550	1,578	1,276	1,460	1,319	0.1	7.1
Natural Gas.....	3,735	8,602	8,545	8,992	10,319	10,232	10,159	10,288	22.6	55.6
Other Gases <sup>1</sup> .....	22	21	21	21	44	44	44	44	0.1	0.2
Nuclear.....	-	3,908	3,972	3,984	3,984	3,984	4,108	4,108	-	22.2
Hydroelectric.....	13	14	12	3	5	4	4	6	0.1	*
Other Renewables <sup>2</sup> .....	188	200	200	200	208	211	215	215	1.1	1.2
Other <sup>3</sup> .....	4	-	11	11	11	11	11	11	*	0.1
<b>Total Electric Industry.....</b>	<b>16,541</b>	<b>18,647</b>	<b>18,164</b>	<b>17,536</b>	<b>18,971</b>	<b>18,352</b>	<b>18,508</b>	<b>18,499</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,126	2,124	2,124	2,077	2,124	2,054	2,054	2,065	12.9	11.2
Petroleum.....	2,385	3,207	2,814	1,782	1,810	1,345	1,514	1,362	14.4	7.4
Natural Gas.....	7,542	8,773	8,611	9,058	10,385	10,298	10,159	10,288	45.6	55.6
Other Gases <sup>1</sup> .....	22	21	21	21	44	44	44	44	0.1	0.2
Nuclear.....	3,862	3,908	3,972	3,984	3,984	3,984	4,108	4,108	23.3	22.2
Hydroelectric.....	13	14	12	3	5	4	4	6	0.1	*
Other Renewables <sup>2</sup> .....	188	200	200	200	208	211	215	215	1.1	1.2
Pumped Storage.....	400	400	400	400	400	400	400	400	2.4	2.2
Other <sup>3</sup> .....	4	-	11	11	11	11	11	11	*	0.1

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Jersey</b>										
<b>Electric Utilities.....</b>	<b>38,867,608</b>	<b>1,910,115</b>	<b>1,648,908</b>	<b>1,248,594</b>	<b>1,042,511</b>	<b>-191,300</b>	<b>-206,308</b>	<b>-186,672</b>	<b>68.4</b>	<b>-0.3</b>
Coal.....	6,387,952	1,792,734	1,800,845	1,376,852	1,213,235	51,331	39,614	12,392	11.2	*
Petroleum.....	531,959	209,017	98,826	122,098	98,605	8,841	13,938	2,650	0.9	*
Natural Gas.....	3,122,217	28,246	36,476	32,351	29,272	17,462	14,984	-	5.5	-
Nuclear.....	28,970,893	-	-	-	-	-	-	-	51.0	-
Pumped Storage.....	-145,413	-119,882	-287,239	-282,707	-298,601	-268,934	-274,845	-201,714	-0.3	-0.3
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>17,935,813</b>	<b>55,489,236</b>	<b>54,233,434</b>	<b>59,300,989</b>	<b>59,657,628</b>	<b>62,862,545</b>	<b>63,881,097</b>	<b>61,997,911</b>	<b>31.6</b>	<b>100.3</b>
Coal.....	1,676,440	7,996,829	8,521,639	10,248,567	9,648,690	10,159,339	8,988,877	5,087,476	3.0	8.2
Petroleum.....	260,511	1,332,535	1,326,027	818,365	170,914	443,931	311,374	275,541	0.5	0.4
Natural Gas.....	13,977,019	14,747,331	15,925,719	15,333,814	15,639,102	18,734,869	20,736,770	20,624,990	24.6	33.4
Other Gases <sup>1</sup> .....	611,649	255,374	38,779	64,932	110,265	160,549	158,826	169,730	1.1	0.3
Nuclear.....	-	29,709,201	27,081,566	31,391,685	32,567,885	32,010,376	32,194,798	34,327,954	-	55.5
Hydroelectric.....	17,303	38,891	37,503	31,113	35,436	20,909	25,773	32,081	*	0.1
Other Renewables <sup>2</sup> .....	1,365,251	906,771	805,832	874,905	916,783	843,578	905,290	959,831	2.4	1.6
Other <sup>3</sup> .....	27,640	502,304	496,369	537,609	568,551	488,994	559,390	520,308	*	0.8
<b>Total Electric Industry.....</b>	<b>56,803,421</b>	<b>57,399,351</b>	<b>55,882,342</b>	<b>60,549,583</b>	<b>60,700,139</b>	<b>62,671,245</b>	<b>63,674,789</b>	<b>61,811,239</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	8,064,392	9,789,563	10,322,484	11,625,419	10,861,925	10,210,670	9,028,491	5,099,868	14.2	8.3
Petroleum.....	792,470	1,541,552	1,424,853	940,463	269,519	452,771	325,312	278,191	1.4	0.5
Natural Gas.....	17,099,236	14,775,577	15,962,195	15,366,165	15,668,374	18,752,332	20,751,755	20,624,990	30.1	33.4
Other Gases <sup>1</sup> .....	611,649	255,374	38,779	64,932	110,265	160,549	158,826	169,730	1.1	0.3
Nuclear.....	28,970,893	29,709,201	27,081,566	31,391,685	32,567,885	32,010,376	32,194,798	34,327,954	51.0	55.5
Hydroelectric.....	17,303	38,891	37,503	31,113	35,436	20,909	25,773	32,081	*	0.1
Other Renewables <sup>2</sup> .....	1,365,251	906,771	805,832	874,905	916,783	843,578	905,290	959,831	2.4	1.6
Pumped Storage.....	-145,413	-119,882	-287,239	-282,707	-298,601	-268,934	-274,845	-201,714	-0.3	-0.3
Other <sup>3</sup> .....	27,640	502,304	496,369	537,609	568,551	488,994	559,390	520,308	*	0.8

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Jersey</b>								
Coal (cents per million Btu) .....	145	180	205	218	273	289	333	401
Average heat value (Btu per pound).....	13,150	13,056	12,868	12,644	12,770	11,890	12,073	11,491
Average sulfur Content (percent).....	1.14	1.11	1.58	1.14	1.17	0.88	1.03	0.90
Petroleum (cents per million Btu) <sup>1</sup> .....	288	604	602	985	970	1,147	1,547	1,011
Average heat value (Btu per gallon).....	149,295	139,250	135,095	134,802	141,505	136,271	138,217	136,595
Average sulfur Content (percent).....	0.40	0.16	0.14	0.08	0.19	0.18	0.21	0.19
Natural Gas (cents per million Btu).....	299	620	696	963	789	789	1,041	515
Average heat value (Btu per cubic foot).....	1,031	1,036	1,031	1,024	1,024	1,034	1,032	1,029

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Jersey</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	58	46	47	63	55	45	35	11
Petroleum.....	4	3	2	2	1	1	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	_R	*R	*R	*R	*	*	*
Other <sup>2</sup> .....	2 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	64	49	49	65	56	46	35	12
<b>Nitrogen Oxide .....</b>								
Coal.....	24	21	20	22	16	12	9	5
Petroleum.....	2	2	2	2	1	1	*	*
Natural Gas.....	7	6	7	6	6	5	5	4
Other Gases.....	1	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	2 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	2
Other <sup>2</sup> .....	5 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3
Total.....	40	35	34	35	28	21	20	14
<b>Carbon Dioxide .....</b>								
Coal.....	8,268 <sup>R</sup>	9,938 <sup>R</sup>	10,483 <sup>R</sup>	11,669 <sup>R</sup>	10,814 <sup>R</sup>	10,493 <sup>R</sup>	9,197 <sup>R</sup>	5,613
Petroleum.....	860	1,504	1,296 <sup>R</sup>	1,007	414	413	295	251
Natural Gas.....	9,729	8,219	8,934	7,920	8,080	9,141	9,856	9,484
Other Gases.....	-	*	71 <sup>R</sup>	*	-	-	-	*
Other <sup>2</sup> .....	883 <sup>R</sup>	720	704	696	729	725	749	738
Total.....	19,741 <sup>R</sup>	20,381 <sup>R</sup>	21,488 <sup>R</sup>	21,292 <sup>R</sup>	20,036 <sup>R</sup>	20,771 <sup>R</sup>	20,097 <sup>R</sup>	16,086

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Jersey</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	24,551	27,367	28,020	29,973	28,622	29,752	29,111	27,833	34.7	36.7
Commercial .....	32,506	36,616	38,074	39,762	39,437	40,876	40,570	39,377	46.0	52.0
Industrial .....	13,121	12,215	11,210	11,862	11,331	11,013	10,537	8,250	18.6	10.9
Other .....	525	NA	NA	NA	NA	NA	NA	NA	0.7	--
Transportation.....	NA	184	290	299	291	293	302	320	--	0.4
All Sectors .....	70,703	76,383	77,593	81,897	79,681	81,934	80,520	75,780	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	2,798	2,921	3,148	3,518	3,676	4,207	4,560	4,541	39.6	41.3
Commercial .....	3,163	3,335	3,793	4,218	4,583	5,310	5,876	5,447	44.8	49.5
Industrial.....	1,007	976	1,012	1,158	1,180	1,110	1,145	975	14.3	8.9
Other.....	91	NA	NA	NA	NA	NA	NA	NA	1.3	--
Transportation.....	NA	13	32	23	28	33	48	40	--	0.4
All Sectors .....	7,059	7,245	7,984	8,917	9,467	10,660	11,629	11,001	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	11.40	10.67	11.23	11.74	12.84	14.14	15.66	16.31	--	--
Commercial .....	9.73	9.11	9.96	10.61	11.62	12.99	14.48	13.83	--	--
Industrial.....	7.67	7.99	9.03	9.76	10.42	10.08	10.86	11.81	--	--
Other.....	17.43	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.15	10.94	7.65	9.70	11.14	15.98	12.37	--	--
All Sectors .....	9.98	9.48	10.29	10.89	11.88	13.01	14.44	14.52	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	4	9	NA	1	4	18	4	40
Number of Retail Customers .....	3,827,162	64,051	NA	11,668	4	17,568	NA	3,920,453
Retail Sales (thousand megawatthours).....	52,853	1,177	NA	150	163	21,436	NA	75,780
Percentage of Retail Sales .....	69.75	1.55	--	0.20	0.22	28.29	--	100.00
Revenue from Retail Sales (million dollars) .....	8,115	188	NA	17	16	1,883	782	11,001
Percentage of Revenue .....	73.76	1.71	--	0.16	0.14	17.12	7.11	100.00
Average Retail Price (cents/kWh).....	15.35	15.96	NA	11.58	9.57	8.79	3.65	14.52

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Jersey</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	38,868	1,910	1,649	1,249	1,043	-191	-206	-187
Independent Power Producers .....	1,229	41,228	42,169	46,809	48,723	51,439	52,292	52,182
Combined Heat and Power, Electric .....	13,525	12,777	10,705	11,365	9,999	10,653	10,740	8,717
<b>Electric Power Sector Generation Subtotal</b> .....	<b>53,622</b>	<b>55,916</b>	<b>54,523</b>	<b>59,422</b>	<b>59,765</b>	<b>61,901</b>	<b>62,825</b>	<b>60,712</b>
Combined Heat and Power, Commercial .....	160	133	106	70	115	81	88	385
Combined Heat and Power, Industrial.....	3,022	1,351	1,254	1,057	820	690	762	715
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>3,182</b>	<b>1,484</b>	<b>1,359</b>	<b>1,128</b>	<b>935</b>	<b>771</b>	<b>849</b>	<b>1,100</b>
<b>Total Net Generation</b> .....	<b>56,803</b>	<b>57,399</b>	<b>55,882</b>	<b>60,550</b>	<b>60,700</b>	<b>62,671</b>	<b>63,675</b>	<b>61,811</b>
<b>Total Supply</b> .....	<b>56,803</b>	<b>57,399</b>	<b>55,882</b>	<b>60,550</b>	<b>60,700</b>	<b>62,671</b>	<b>63,675</b>	<b>61,811</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	70,582	68,558	58,768	64,160	62,988	64,479	62,009	54,180
Energy-Only Providers.....	121	6,714	18,574	16,553	15,568	16,176	17,080	21,436
Facility Direct Retail Sales <sup>1</sup> .....	-	1,110	252	1,184	1,125	1,279	1,430	163
<b>Total Electric Industry Retail Sales</b> .....	<b>70,703</b>	<b>76,383</b>	<b>77,593</b>	<b>81,897</b>	<b>79,681</b>	<b>81,934</b>	<b>80,520</b>	<b>75,780</b>
<b>Direct Use</b> .....	<b>2,434</b>	<b>2,404</b>	<b>2,407</b>	<b>2,643</b>	<b>2,210</b>	<b>941<sup>R</sup></b>	<b>1,312<sup>R</sup></b>	<b>1,266</b>
<b>Total International Exports</b> .....	-	-	*	-	-	-	-	-
<b>Estimated Losses</b> .....	<b>5,125</b>	<b>5,886</b>	<b>5,722</b>	<b>6,507<sup>R</sup></b>	<b>6,080</b>	<b>6,637<sup>R</sup></b>	<b>5,368<sup>R</sup></b>	<b>4,364</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-21,459</b>	<b>-27,273</b>	<b>-29,841</b>	<b>-30,497<sup>R</sup></b>	<b>-27,271</b>	<b>-26,841<sup>R</sup></b>	<b>-23,525<sup>R</sup></b>	<b>-19,598</b>
<b>Total Disposition</b> .....	<b>56,803<sup>R</sup></b>	<b>57,399<sup>R</sup></b>	<b>55,882<sup>R</sup></b>	<b>60,550<sup>R</sup></b>	<b>60,700<sup>R</sup></b>	<b>62,671<sup>R</sup></b>	<b>63,675<sup>R</sup></b>	<b>61,811</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.73</b>	<b>0.68</b>	<b>0.65</b>	<b>0.67</b>	<b>0.69</b>	<b>0.70<sup>R</sup></b>	<b>0.73<sup>R</sup></b>	<b>0.76</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>New Mexico</b>		
NERC Region(s).....		SPP/WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	7,993	36
Electric Utilities.....	6,344	33
Independent Power Producers & Combined Heat and Power.....	1,649	37
Net Generation (megawatthours).....	39,674,339	35
Electric Utilities.....	34,245,148	31
Independent Power Producers & Combined Heat and Power.....	5,429,191	36
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	18	38
Nitrogen Oxide .....	61	16
Carbon Dioxide.....	33,502	29
Sulfur Dioxide (lbs/MWh) .....	1.0	41
Nitrogen Oxide (lbs/MWh) .....	3.4	6
Carbon Dioxide (lbs/MWh).....	1,862	10
Total Retail Sales (megawatthours).....	21,647,136	39
Full Service Provider Sales (megawatthours) .....	21,647,136	38
Direct Use (megawatthours) .....	123,693	42
Average Retail Price (cents/kWh).....	8.09	33

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>New Mexico</b>			
1. Four Corners .....	Coal	Arizona Public Service Co	2,080
2. San Juan.....	Coal	Public Service Co of NM	1,643
3. Luna Energy Facility .....	Gas	Public Service Co of NM	559
4. Hobbs Generating Station.....	Gas	CAMS NM LLC	526
5. Cunningham.....	Gas	Southwestern Public Service Co	485
6. Escalante.....	Coal	Tri-State G & T Assn, Inc	247
7. Rio Grande.....	Gas	El Paso Electric Co	236
8. Afton Generating Station.....	Gas	Public Service Co of NM	236
9. New Mexico Wind Energy Center .....	Other Renewables	FPL Energy New Mexico Wind LLC	204
10. Maddox.....	Gas	Southwestern Public Service Co	179

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>New Mexico</b>						
1. Public Service Co of NM .....	Investor-Owned	8,867,533	3,243,059	4,169,994	1,454,480	-
2. Southwestern Public Service Co .....	Investor-Owned	4,090,157	1,024,715	1,418,605	1,646,837	-
3. El Paso Electric Co .....	Investor-Owned	1,601,942	622,754	908,116	71,072	-
4. City of Farmington .....	Public	1,159,530	268,907	437,567	453,056	-
5. Lea County Electric Coop, Inc .....	Cooperative	749,347	67,739	383,313	298,295	-
Total Sales, Top Five Providers .....		16,468,509	5,227,174	7,317,595	3,923,740	-
Percent of Total State Sales .....		76	80	84	61	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Mexico</b>										
<b>Electric Utilities.....</b>	<b>5,299</b>	<b>5,398</b>	<b>5,393</b>	<b>5,692</b>	<b>6,223</b>	<b>6,324</b>	<b>6,324</b>	<b>6,344</b>	<b>95.7</b>	<b>79.4</b>
Coal.....	3,942	3,942	3,937	3,957	3,957	3,957	3,957	3,977	71.2	49.8
Petroleum.....	-	35	35	35	26	26	26	26	-	0.3
Natural Gas.....	1,275	1,339	1,339	1,619	2,158	2,259	2,259	2,259	23.0	28.3
Hydroelectric .....	82	82	82	82	82	82	82	82	1.5	1.0
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>240</b>	<b>891</b>	<b>937</b>	<b>788</b>	<b>880</b>	<b>878</b>	<b>1,626</b>	<b>1,649</b>	<b>4.3</b>	<b>20.6</b>
Petroleum.....	69	10	10	2	2	2	2	2	1.2	*
Natural Gas.....	169	670	656	375	377	375	1,121	1,043	3.0	13.0
Other Renewables <sup>1</sup> .....	2	210	270	410	500	500	502	604	*	7.6
<b>Total Electric Industry.....</b>	<b>5,539</b>	<b>6,288</b>	<b>6,329</b>	<b>6,480</b>	<b>7,102</b>	<b>7,202</b>	<b>7,950</b>	<b>7,993</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,942	3,942	3,937	3,957	3,957	3,957	3,957	3,977	71.2	49.8
Petroleum.....	69	45	45	37	28	28	28	28	1.2	0.4
Natural Gas.....	1,444	2,009	1,995	1,994	2,535	2,634	3,381	3,302	26.1	41.3
Hydroelectric .....	82	82	82	82	82	82	82	82	1.5	1.0
Other Renewables <sup>1</sup> .....	2	210	270	410	500	500	502	604	*	7.6

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Mexico</b>										
<b>Electric Utilities.....</b>	<b>31,654,480</b>	<b>31,770,151</b>	<b>32,242,728</b>	<b>33,561,875</b>	<b>35,411,074</b>	<b>34,033,374</b>	<b>33,844,547</b>	<b>34,245,148</b>	<b>97.3</b>	<b>86.3</b>
Coal.....	28,067,704	28,812,844	29,263,899	29,947,248	29,859,008	27,603,647	27,014,233	29,117,308	86.3	73.4
Petroleum.....	40,133	47,860	30,321	32,528	40,634	42,969	52,012	44,599	0.1	0.1
Natural Gas.....	3,303,933	2,738,748	2,809,561	3,417,106	5,313,221	6,118,780	6,466,013	4,812,278	10.2	12.1
Hydroelectric.....	242,710	170,699	138,947	164,993	198,211	267,978	312,288	270,963	0.7	0.7
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>867,376</b>	<b>965,502</b>	<b>697,633</b>	<b>1,573,767</b>	<b>1,854,551</b>	<b>1,951,959</b>	<b>3,165,290</b>	<b>5,429,191</b>	<b>2.7</b>	<b>13.7</b>
Petroleum.....	3,748	2,809	1,055	4,381	852	1,502	576	14	*	*
Natural Gas.....	852,615	779,958	183,113	770,109	576,378	541,224	1,499,993	3,848,795	2.6	9.7
Other Renewables <sup>1</sup> .....	11,013	182,735	513,465	799,277	1,277,321	1,409,233	1,661,672	1,580,382	*	4.0
Other <sup>2</sup> .....	-	-	-	-	-	-	3,049	-	-	-
<b>Total Electric Industry.....</b>	<b>32,521,856</b>	<b>32,735,653</b>	<b>32,940,361</b>	<b>35,135,642</b>	<b>37,265,625</b>	<b>35,985,333</b>	<b>37,009,837</b>	<b>39,674,339</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	28,067,704	28,812,844	29,263,899	29,947,248	29,859,008	27,603,647	27,014,233	29,117,308	86.3	73.4
Petroleum.....	43,881	50,669	31,376	36,909	41,486	44,471	52,589	44,613	0.1	0.1
Natural Gas.....	4,156,548	3,518,706	2,992,674	4,187,215	5,889,599	6,660,004	7,966,007	8,661,073	12.8	21.8
Hydroelectric.....	242,710	170,699	138,947	164,993	198,211	267,978	312,288	270,963	0.7	0.7
Other Renewables <sup>1</sup> .....	11,013	182,735	513,465	799,277	1,277,321	1,409,233	1,661,672	1,580,382	*	4.0
Other <sup>2</sup> .....	-	-	-	-	-	-	3,049	-	-	-

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Mexico</b>								
Coal (cents per million Btu) .....	133	143	148	151	156	179	199	190
Average heat value (Btu per pound).....	9,132	9,164	9,225	9,173	9,282	9,198	9,173	9,226
Average sulfur Content (percent).....	0.80	0.73	0.72	0.79	0.76	0.77	0.75	0.77
Petroleum (cents per million Btu) <sup>1</sup> .....	502	W	W	W	W	W	W	W
Average heat value (Btu per gallon).....	136,000	136,048	136,007	136,252	136,024	136,026	134,186	134,086
Average sulfur Content (percent).....	0.67	-	-	0.01	-	0.01	0.04	0.04
Natural Gas (cents per million Btu).....	228	W	W	W	W	W	802	W
Average heat value (Btu per cubic foot).....	1,013	996	1,000	1,002	997	1,005	1,022	1,028

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Mexico</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	67	46	35	28	28	24	20	17
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Total.....	67	46	35	28	28	24	20	18
<b>Nitrogen Oxide .....</b>								
Coal.....	73	67	65	66	68	62	60	58
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	5	4	3	4	4	3	4	2
Other Renewables <sup>1</sup> .....	*	-	-	-	*	*	1	*
Total.....	78	71	68	69	72	66	64	61
<b>Carbon Dioxide .....</b>								
Coal.....	28,800 <sup>R</sup>	29,493 <sup>R</sup>	29,863 <sup>R</sup>	30,694 <sup>R</sup>	30,530 <sup>R</sup>	28,578 <sup>R</sup>	27,023 <sup>R</sup>	29,606
Petroleum.....	34	38	23	27	30	34	42	35
Natural Gas.....	2,654	2,158	1,900	2,553	3,024	3,343	3,834	3,861
Total.....	31,488 <sup>R</sup>	31,689 <sup>R</sup>	31,786 <sup>R</sup>	33,274 <sup>R</sup>	33,585 <sup>R</sup>	31,955 <sup>R</sup>	30,899 <sup>R</sup>	33,502

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New Mexico</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	4,649	5,418	5,635	5,865	6,009	6,387	6,379	6,504	25.8	30.0
Commercial .....	5,892	8,063	8,239	8,411	8,604	8,932	8,828	8,734	32.7	40.3
Industrial .....	5,957	5,849	5,972	6,363	6,822	6,948	6,831	6,409	33.0	29.6
Other .....	1,543	NA	NA	NA	NA	NA	NA	NA	8.6	--
All Sectors .....	18,041	19,330	19,846	20,639	21,435	22,267	22,038	21,647	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	401	471	488	536	544	582	638	652	33.8	37.2
Commercial .....	443	593	609	657	655	685	765	734	37.4	41.9
Industrial.....	253	290	312	357	380	389	436	367	21.3	20.9
Other.....	89	NA	NA	NA	NA	NA	NA	NA	7.5	--
All Sectors .....	1,186	1,354	1,409	1,549	1,579	1,656	1,840	1,752	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.62	8.69	8.67	9.13	9.06	9.12	10.01	10.02	--	--
Commercial .....	7.52	7.36	7.39	7.81	7.61	7.66	8.67	8.40	--	--
Industrial.....	4.24	4.95	5.22	5.61	5.57	5.60	6.38	5.72	--	--
Other.....	5.76	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	6.57	7.00	7.10	7.51	7.37	7.44	8.35	8.09	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>New Mexico</b>								
Number of Entities.....	3	8	1	20	NA	NA	NA	32
Number of Retail Customers .....	698,308	83,960	29	205,107	NA	NA	NA	987,404
Retail Sales (thousand megawatthours).....	14,560	2,202	202	4,683	NA	NA	NA	21,647
Percentage of Retail Sales .....	67.26	10.17	0.93	21.63	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	1,173	171	5	403	NA	NA	NA	1,752
Percentage of Revenue .....	66.94	9.77	0.30	22.99	--	--	--	100.00
Average Retail Price (cents/kWh).....	8.05	7.77	2.61	8.60	NA	NA	NA	8.09

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>New Mexico</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	31,654	31,770	32,243	33,562	35,411	34,033	33,845	34,245
Independent Power Producers .....	-	273	589	805	1,291	1,404	2,420	4,881
Combined Heat and Power, Electric .....	524	504	-	479	479	472	464	477
<b>Electric Power Sector Generation Subtotal</b> .....	<b>32,179</b>	<b>32,548</b>	<b>32,831</b>	<b>34,846</b>	<b>37,181</b>	<b>35,909</b>	<b>36,729</b>	<b>39,603</b>
Combined Heat and Power, Commercial .....	57	55	42	51	49	58	51	71
Combined Heat and Power, Industrial.....	286	133	67	239	35	18	230	*
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>343</b>	<b>188</b>	<b>109</b>	<b>290</b>	<b>85</b>	<b>76</b>	<b>281</b>	<b>71</b>
<b>Total Net Generation</b> .....	<b>32,522</b>	<b>32,736</b>	<b>32,940</b>	<b>35,136</b>	<b>37,266</b>	<b>35,985</b>	<b>37,010</b>	<b>39,674</b>
<b>Total International Imports</b> .....	-	23	79	82	30	37	39	27
<b>Total Supply</b> .....	<b>32,522</b>	<b>32,759</b>	<b>33,019</b>	<b>35,218</b>	<b>37,296</b>	<b>36,022</b>	<b>37,049</b>	<b>39,702</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	17,998	19,330	19,846	20,639	21,435	22,267	22,038	21,647
Energy-Only Providers.....	44	-	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>18,041</b>	<b>19,330</b>	<b>19,846</b>	<b>20,639</b>	<b>21,435</b>	<b>22,267</b>	<b>22,038</b>	<b>21,647</b>
<b>Direct Use</b> .....	<b>387</b>	<b>445</b>	<b>446</b>	<b>78</b>	<b>93</b>	<b>83</b>	<b>272</b>	<b>124</b>
<b>Total International Exports</b> .....	-	-	22	98	65	62	118	115
<b>Estimated Losses</b> .....	<b>1,308</b>	<b>845</b>	<b>1,302</b>	<b>1,768</b>	<b>1,853</b>	<b>1,736<sup>R</sup></b>	<b>1,834<sup>R</sup></b>	<b>1,966</b>
<b>Net Interstate Trade<sup>1</sup></b> .....	<b>12,786</b>	<b>12,137</b>	<b>11,403</b>	<b>12,635</b>	<b>13,850</b>	<b>11,875<sup>R</sup></b>	<b>12,787<sup>R</sup></b>	<b>15,849</b>
<b>Total Disposition</b> .....	<b>32,522<sup>R</sup></b>	<b>32,759<sup>R</sup></b>	<b>33,019<sup>R</sup></b>	<b>35,218<sup>R</sup></b>	<b>37,296<sup>R</sup></b>	<b>36,022<sup>R</sup></b>	<b>37,049<sup>R</sup></b>	<b>39,702</b>
<b>Net Trade Index (ratio)<sup>2</sup></b> .....	<b>1.65</b>	<b>1.59</b>	<b>1.53</b>	<b>1.56</b>	<b>1.59</b>	<b>1.49<sup>R</sup></b>	<b>1.53<sup>R</sup></b>	<b>1.66</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>New York</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	39,671	6
Electric Utilities.....	11,871	20
Independent Power Producers & Combined Heat and Power.....	27,800	5
Net Generation (megawatthours).....	133,150,550	8
Electric Utilities.....	35,771,414	29
Independent Power Producers & Combined Heat and Power.....	97,379,136	5
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	59	27
Nitrogen Oxide.....	44	27
Carbon Dioxide.....	38,130	23
Sulfur Dioxide (lbs/MWh) .....	1.0	40
Nitrogen Oxide (lbs/MWh) .....	0.7	43
Carbon Dioxide (lbs/MWh).....	631	44
Total Retail Sales (megawatthours).....	140,034,397	6
Full Service Provider Sales (megawatthours) .....	77,601,917	17
Energy-Only Provider Sales (megawatthours).....	62,432,480	2
Direct Use (megawatthours) .....	1,567,327	20
Average Retail Price (cents/kWh).....	15.52	3

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>New York</b>			
1. Robert Moses Niagara .....	Hydroelectric	New York Power Authority	2,353
2. Ravenswood.....	Gas	TC Ravenswood LLC	2,296
3. Nine Mile Point Nuclear Station .....	Nuclear	Nine Mile Point Nuclear Sta LLC	1,764
4. Oswego Harbor Power.....	Petroleum	NRG Oswego Harbor Power Operations Inc	1,676
5. Northport .....	Gas	National Grid Generation LLC	1,583
6. Astoria Generating Station .....	Gas	U S Power Generating Company LLC	1,293
7. Roseton Generating Station.....	Petroleum	Dynegy Northeast Gen Inc	1,220
8. Bowline Point .....	Gas	Mirant New York Inc	1,139
9. Athens Generating Plant.....	Gas	New Athens Generating Company LLC	1,138
10. Blenheim Gilboa.....	Pumped Storage	New York Power Authority	1,134

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Consolidated Edison Co-NY Inc.....	Investor-Owned	23,482,603	10,952,005	12,324,277	200,427	5,894
2. Long Island Power Authority.....	Public	17,797,255	9,211,446	8,305,275	-	280,534
3. Niagara Mohawk Power Corp.....	Investor-Owned	14,533,172	9,360,771	4,016,265	1,155,161	975
4. New York Power Authority.....	Public	14,258,689	-	7,650,155	3,731,829	2,876,705
5. Hess Retail Natural Gas and Elec. Acctg.....	Other Provider	9,108,586	-	4,331,540	4,777,046	-
Total Sales, Top Five Providers.....		79,180,305	29,524,222	36,627,512	9,864,463	3,164,108
Percent of Total State Sales.....		57	61	49	74	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>17,679</b>	<b>11,902</b>	<b>11,386</b>	<b>11,927</b>	<b>12,046</b>	<b>12,056</b>	<b>11,784</b>	<b>11,871</b>	<b>52.4</b>	<b>29.9</b>
Coal.....	668	302	297	297	297	297	45	45	2.0	0.1
Petroleum.....	4,991	3,688	2,642	2,450	2,468	2,465	2,467	2,465	14.8	6.2
Natural Gas.....	2,600	2,908	3,894	4,628	4,628	4,644	4,623	4,629	7.7	11.7
Nuclear.....	4,981	498	-	-	-	-	-	-	14.8	-
Hydroelectric.....	3,159	3,210	3,256	3,256	3,356	3,354	3,353	3,357	9.4	8.5
Pumped Storage.....	1,280	1,297	1,297	1,297	1,297	1,297	1,297	1,374	3.8	3.5
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>16,049</b>	<b>24,795</b>	<b>26,457</b>	<b>27,195</b>	<b>27,505</b>	<b>27,065</b>	<b>26,936</b>	<b>27,800</b>	<b>47.6</b>	<b>70.1</b>
Coal.....	2,939	3,924	3,904	3,921	3,717	3,273	2,854	2,759	8.7	7.0
Petroleum.....	1,830	4,768	4,766	4,782	4,773	4,821	4,806	4,870	5.4	12.3
Natural Gas.....	9,822	10,249	11,380	11,867	12,189	12,083	11,931	12,253	29.1	30.9
Other Gases <sup>1</sup> .....	23	-	-	-	-	-	-	-	0.1	-
Nuclear.....	-	4,531	5,067	5,150	5,156	5,156	5,264	5,262	-	13.3
Hydroelectric.....	1,018	950	954	951	951	947	947	952	3.0	2.4
Other Renewables <sup>2</sup> .....	418	373	386	525	720	786	1,134	1,704	1.2	4.3
<b>Total Electric Industry.....</b>	<b>33,729</b>	<b>36,696</b>	<b>37,842</b>	<b>39,122</b>	<b>39,550</b>	<b>39,121</b>	<b>38,720</b>	<b>39,671</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,607	4,226	4,201	4,218	4,014	3,570	2,899	2,804	10.7	7.1
Petroleum.....	6,821	8,456	7,407	7,231	7,241	7,286	7,273	7,335	20.2	18.5
Natural Gas.....	12,422	13,156	15,274	16,494	16,816	16,727	16,554	16,882	36.8	42.6
Other Gases <sup>1</sup> .....	23	-	-	-	-	-	-	-	0.1	-
Nuclear.....	4,981	5,028	5,067	5,150	5,156	5,156	5,264	5,262	14.8	13.3
Hydroelectric.....	4,176	4,160	4,210	4,207	4,307	4,301	4,299	4,310	12.4	10.9
Other Renewables <sup>2</sup> .....	418	373	386	525	720	786	1,134	1,704	1.2	4.3
Pumped Storage.....	1,280	1,297	1,297	1,297	1,297	1,297	1,297	1,374	3.8	3.5

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New York</b>										
<b>Electric Utilities.....</b>	<b>97,009,440</b>	<b>41,578,894</b>	<b>40,955,819</b>	<b>39,962,653</b>	<b>41,598,844</b>	<b>40,247,883</b>	<b>38,170,043</b>	<b>35,771,414</b>	<b>66.3</b>	<b>26.9</b>
Coal.....	10,949,307	1,693,854	1,707,414	1,108,151	1,211,432	1,359,061	388,760	66,064	7.5	*
Petroleum.....	11,734,647	9,681,490	9,159,172	9,769,302	3,927,419	4,449,368	2,200,304	1,336,621	8.0	1.0
Natural Gas.....	17,183,250	7,737,717	7,210,772	8,113,145	15,424,911	14,300,643	14,549,728	12,259,072	11.7	9.2
Nuclear.....	37,018,540	3,864,019	1,917,259	-	-	-	-	-	25.3	-
Hydroelectric.....	21,232,642	19,513,620	21,774,373	21,752,786	21,791,238	20,907,191	21,703,390	22,590,043	14.5	17.0
Other Renewables <sup>1</sup> .....	129	-	-	-	-	-	-	-	*	-
Pumped Storage.....	-1,109,075	-911,806	-813,171	-780,731	-756,156	-768,380	-672,139	-480,387	-0.8	-0.4
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>49,271,426</b>	<b>96,064,422</b>	<b>97,008,974</b>	<b>106,924,766</b>	<b>100,666,588</b>	<b>105,630,804</b>	<b>102,152,057</b>	<b>97,379,136</b>	<b>33.7</b>	<b>73.1</b>
Coal.....	12,416,635	21,887,213	21,145,290	19,489,489	19,756,408	20,046,481	18,765,365	12,692,808	8.5	9.5
Petroleum.....	1,569,545	9,610,109	12,046,026	14,243,481	2,850,620	3,745,741	1,545,023	1,311,684	1.1	1.0
Natural Gas.....	28,815,938	20,418,631	20,083,273	23,759,556	26,708,967	31,332,988	29,306,733	29,520,525	19.7	22.2
Other Gases <sup>2</sup> .....	111,954	-	-	-	-	-	-	-	0.1	-
Nuclear.....	-	36,815,186	38,723,046	42,443,152	42,223,899	42,452,854	43,209,171	43,484,614	-	32.7
Hydroelectric.....	3,519,676	4,755,040	2,215,288	4,029,732	5,553,417	4,345,364	5,019,741	5,025,063	2.4	3.8
Other Renewables <sup>1</sup> .....	2,837,678	1,735,500	1,911,676	1,988,449	2,596,641	2,775,084	3,318,657	4,467,008	1.9	3.4
Other <sup>3</sup> .....	-	842,742	884,375	970,907	976,636	932,292	987,366	877,433	-	0.7
<b>Total Electric Industry.....</b>	<b>146,280,866</b>	<b>137,643,316</b>	<b>137,964,794</b>	<b>146,887,419</b>	<b>142,265,432</b>	<b>145,878,687</b>	<b>140,322,100</b>	<b>133,150,550</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	23,365,942	23,581,067	22,852,704	20,597,640	20,967,840	21,405,542	19,154,125	12,758,873	16.0	9.6
Petroleum.....	13,304,192	19,291,599	21,205,198	24,012,783	6,778,039	8,195,109	3,745,328	2,648,306	9.1	2.0
Natural Gas.....	45,999,188	28,156,348	27,294,045	31,872,701	42,133,878	45,633,631	43,856,460	41,779,597	31.4	31.4
Other Gases <sup>2</sup> .....	111,954	-	-	-	-	-	-	-	0.1	-
Nuclear.....	37,018,540	40,679,205	40,640,305	42,443,152	42,223,899	42,452,854	43,209,171	43,484,614	25.3	32.7
Hydroelectric.....	24,752,318	24,268,660	23,989,661	25,782,518	27,344,655	25,252,555	26,723,131	27,615,106	16.9	20.7
Other Renewables <sup>1</sup> .....	2,837,807	1,735,500	1,911,676	1,988,449	2,596,641	2,775,084	3,318,657	4,467,008	1.9	3.4
Pumped Storage.....	-1,109,075	-911,806	-813,171	-780,731	-756,156	-768,380	-672,139	-480,387	-0.8	-0.4
Other <sup>3</sup> .....	-	842,742	884,375	970,907	976,636	932,292	987,366	877,433	-	0.7

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>New York</b>								
Coal (cents per million Btu) .....	145	159	176	213	240	241	257	273
Average heat value (Btu per pound).....	13,034	12,545	12,063	11,832	11,584	11,382	11,248	11,187
Average sulfur Content (percent).....	1.67	1.80	1.66	1.40	1.36	1.37	1.43	1.29
Petroleum (cents per million Btu) <sup>1</sup> .....	237	493	486	731	800	799	1,390	811
Average heat value (Btu per gallon).....	150,569	149,998	149,024	148,914	150,136	151,036	148,410	146,824
Average sulfur Content (percent).....	0.85	0.67	0.89	0.72	0.63	0.57	0.77	0.99
Natural Gas (cents per million Btu).....	279	605	653	905	761	795	1,062	518
Average heat value (Btu per cubic foot).....	1,024	1,025	1,021	1,019	1,018	1,018	1,019	1,019

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>New York</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	221	187	158	121	100	93	69	47
Petroleum.....	77	70	76	65	21	24	10	8
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	-	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	2 <sup>R</sup>	1	1	1	1	6	4	4
Other <sup>2</sup> .....	3 <sup>R</sup>	1	*	*	*	*	*	*
Total.....	303	259	236	187	122	123	83	59
<b>Nitrogen Oxide .....</b>								
Coal.....	50	39	33	30	29	27	22	15
Petroleum.....	28	24	28	28	13	13	5	4
Natural Gas.....	16	14	13	15	11	10	12	10
Other Gases.....	*	-	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	7 <sup>R</sup>	8
Other <sup>2</sup> .....	8 <sup>R</sup>	5 <sup>R</sup>	6 <sup>R</sup>	5 <sup>R</sup>	6 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	6
Total.....	107	86	85	82	64	60	51	44
<b>Carbon Dioxide .....</b>								
Coal.....	24,546 <sup>R</sup>	24,352 <sup>R</sup>	23,695 <sup>R</sup>	21,809 <sup>R</sup>	21,820 <sup>R</sup>	22,084 <sup>R</sup>	19,748 <sup>R</sup>	13,528
Petroleum.....	11,838 <sup>R</sup>	16,502	18,226	20,441	6,205	7,307	3,381	2,358
Natural Gas.....	24,870	15,082	14,560	17,039	21,634	22,684	22,226	20,529
Other Gases.....	*	-	-	-	-	-	-	-
Other <sup>2</sup> .....	1,531 <sup>R</sup>	1,547	1,620	1,737	1,768	1,675	1,801	1,715
Total.....	62,786 <sup>R</sup>	57,482 <sup>R</sup>	58,101 <sup>R</sup>	61,025 <sup>R</sup>	51,428 <sup>R</sup>	53,749 <sup>R</sup>	47,157 <sup>R</sup>	38,130

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>New York</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	42,919	47,116	47,379	50,533	48,427	50,241	49,034	48,246	30.8	34.5
Commercial .....	57,894	72,495	74,378	76,822	76,029	74,326	77,416	75,347	41.5	53.8
Industrial .....	25,835	21,745	20,675	19,947	14,976	20,213	14,685	13,417	18.5	9.6
Other .....	12,729	NA	NA	NA	NA	NA	NA	NA	9.1	--
Transportation.....	NA	2,689	2,650	2,846	2,806	3,397	2,918	3,025	--	2.2
All Sectors .....	139,378	144,045	145,082	150,148	142,238	148,178	144,053	140,034	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	5,680	6,743	6,890	7,945	8,181	8,591	8,972	8,442	41.0	38.9
Commercial .....	5,852	9,372	9,654	11,031	11,793	11,829	13,035	11,683	42.2	53.8
Industrial.....	1,224	1,552	1,455	1,641	1,407	1,761	1,489	1,205	8.8	5.5
Other.....	1,113	NA	NA	NA	NA	NA	NA	NA	8.0	--
Transportation.....	NA	252	210	324	335	373	369	397	--	1.8
All Sectors .....	13,868	17,920	18,209	20,941	21,716	22,553	23,865	21,728	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	13.23	14.31	14.54	15.72	16.89	17.10	18.30	17.50	--	--
Commercial .....	10.11	12.93	12.98	14.36	15.51	15.92	16.84	15.51	--	--
Industrial.....	4.74	7.14	7.04	8.23	9.39	8.71	10.14	8.98	--	--
Other.....	8.74	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	9.38	7.92	11.39	11.94	10.96	12.64	13.13	--	--
All Sectors .....	9.95	12.44	12.55	13.95	15.27	15.22	16.57	15.52	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	8	48	NA	4	3	37	8	108
Number of Retail Customers .....	5,466,160	1,276,861	NA	18,177	1,875	1,196,765	NA	7,959,838
Retail Sales (thousand megawatthours).....	54,779	22,344	NA	203	276	62,432	NA	140,034
Percentage of Retail Sales .....	39.12	15.96	--	0.14	0.20	44.58	--	100.00
Revenue from Retail Sales (million dollars) .....	9,107	3,453	NA	23	28	5,537	3,580	21,728
Percentage of Revenue .....	41.92	15.89	--	0.10	0.13	25.48	16.48	100.00
Average Retail Price (cents/kWh).....	16.63	15.45	NA	11.11	10.09	8.87	5.73	15.52

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>New York</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	97,009	41,579	40,956	39,963	41,599	40,248	38,170	35,771
Independent Power Producers .....	24,869	77,979	81,182	90,252	86,965	91,333	89,612	86,856
Combined Heat and Power, Electric .....	21,097	15,615	13,744	14,475	11,624	12,388	10,722	8,866
<b>Electric Power Sector Generation Subtotal</b> .....	<b>142,975</b>	<b>135,173</b>	<b>135,882</b>	<b>144,690</b>	<b>140,187</b>	<b>143,969</b>	<b>138,504</b>	<b>131,494</b>
Combined Heat and Power, Commercial .....	834	551	614	672	727	663	664	546
Combined Heat and Power, Industrial.....	2,471	1,920	1,468	1,525	1,351	1,246	1,154	1,111
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>3,305</b>	<b>2,471</b>	<b>2,083</b>	<b>2,197</b>	<b>2,078</b>	<b>1,909</b>	<b>1,818</b>	<b>1,657</b>
<b>Total Net Generation</b> .....	<b>146,281</b>	<b>137,643</b>	<b>137,965</b>	<b>146,887</b>	<b>142,265</b>	<b>145,879</b>	<b>140,322</b>	<b>133,151</b>
<b>Total International Imports</b> .....	<b>3,170</b>	<b>10,000</b>	<b>9,458</b>	<b>10,717</b>	<b>12,495</b>	<b>14,366</b>	<b>16,678</b>	<b>11,254</b>
<b>Total Supply</b> .....	<b>149,451</b>	<b>147,643</b>	<b>147,423</b>	<b>157,605</b>	<b>154,761</b>	<b>160,245</b>	<b>157,000</b>	<b>144,405</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	129,834	100,096	95,980	93,237	86,258	86,299	81,636	77,326
Energy-Only Providers.....	9,543	43,657	48,731	56,673	55,136	61,622	62,120	62,432
Facility Direct Retail Sales <sup>1</sup> .....	-	291	370	238	844	256	296	276
<b>Total Electric Industry Retail Sales</b> .....	<b>139,378</b>	<b>144,045</b>	<b>145,082</b>	<b>150,148</b>	<b>142,238</b>	<b>148,178</b>	<b>144,053</b>	<b>140,034</b>
<b>Direct Use</b> .....	<b>4,344</b>	<b>4,217</b>	<b>4,221</b>	<b>3,803</b>	<b>1,718</b>	<b>1,595<sup>R</sup></b>	<b>1,787<sup>R</sup></b>	<b>1,567</b>
<b>Total International Exports</b> .....	<b>2,193</b>	<b>4,511</b>	<b>4,264</b>	<b>3,437<sup>R</sup></b>	<b>2,510</b>	<b>3,078</b>	<b>3,361</b>	<b>1,459</b>
<b>Estimated Losses</b> .....	<b>10,103</b>	<b>7,403</b>	<b>15,136</b>	<b>12,009<sup>R</sup></b>	<b>6,700</b>	<b>8,994<sup>R</sup></b>	<b>8,649<sup>R</sup></b>	<b>8,951</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-6,567</b>	<b>-12,533<sup>R</sup></b>	<b>-21,281</b>	<b>-11,792<sup>R</sup></b>	<b>1,595</b>	<b>-1,600<sup>R</sup></b>	<b>-851<sup>R</sup></b>	<b>-7,606</b>
<b>Total Disposition</b> .....	<b>149,451<sup>R</sup></b>	<b>147,643<sup>R</sup></b>	<b>147,423<sup>R</sup></b>	<b>157,605<sup>R</sup></b>	<b>154,761<sup>R</sup></b>	<b>160,245<sup>R</sup></b>	<b>157,000<sup>R</sup></b>	<b>144,405</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.96</b>	<b>0.92</b>	<b>0.87</b>	<b>0.93</b>	<b>1.01</b>	<b>0.99<sup>R</sup></b>	<b>0.99<sup>R</sup></b>	<b>0.95</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>North Carolina</b>		
NERC Region(s).....		SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	27,618	13
Electric Utilities.....	25,529	5
Independent Power Producers & Combined Heat and Power.....	2,089	34
Net Generation (megawatthours).....	118,407,403	10
Electric Utilities.....	112,961,309	4
Independent Power Producers & Combined Heat and Power.....	5,446,094	35
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	126	15
Nitrogen Oxide .....	44	25
Carbon Dioxide.....	64,845	13
Sulfur Dioxide (lbs/MWh) .....	2.3	29
Nitrogen Oxide (lbs/MWh) .....	0.8	40
Carbon Dioxide (lbs/MWh).....	1,207	27
Total Retail Sales (megawatthours).....	127,657,979	9
Full Service Provider Sales (megawatthours) .....	127,657,979	7
Direct Use (megawatthours) .....	2,213,347	13
Average Retail Price (cents/kWh).....	8.48	29

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>North Carolina</b>			
1. Roxboro .....	Coal	Progress Energy Carolinas Inc	2,422
2. Belews Creek.....	Coal	Duke Energy Carolinas, LLC	2,220
3. McGuire.....	Nuclear	Duke Energy Carolinas, LLC	2,200
4. Marshall.....	Coal	Duke Energy Carolinas, LLC	2,078
5. Brunswick .....	Nuclear	Progress Energy Carolinas Inc	1,858
6. Richmond.....	Gas	Progress Energy Carolinas Inc	1,290
7. Lincoln Combustion .....	Gas	Duke Energy Carolinas, LLC	1,267
8. G G Allen.....	Coal	Duke Energy Carolinas, LLC	1,124
9. Rowan.....	Gas	Southern Power Co	925
10. Harris .....	Nuclear	Progress Energy Carolinas Inc	900

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Duke Energy Carolinas, LLC .....	Investor-Owned	54,364,778	21,057,980	21,723,269	11,576,834	6,695
2. Progress Energy Carolinas Inc .....	Investor-Owned	36,693,687	15,051,019	13,444,480	8,198,188	-
3. Virginia Electric & Power Co .....	Investor-Owned	4,028,777	1,578,817	953,346	1,496,614	-
4. EnergyUnited Elec Member Corp.....	Cooperative	2,230,848	1,513,243	530,268	187,337	-
5. Public Works Comm-City of Fayetteville.....	Public	2,101,183	931,231	848,554	321,398	-
Total Sales, Top Five Providers .....		99,419,273	40,132,290	37,499,917	21,780,371	6,695
Percent of Total State Sales .....		78	71	81	87	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>21,182</b>	<b>23,726</b>	<b>23,671</b>	<b>23,822</b>	<b>24,553</b>	<b>25,500</b>	<b>25,558</b>	<b>25,529</b>	<b>92.2</b>	<b>92.4</b>
Coal.....	12,440	12,440	12,495	12,487	12,439	12,394	12,411	12,294	54.2	44.5
Petroleum.....	791	836	541	540	509	510	507	509	3.4	1.8
Natural Gas.....	1,676	4,010	4,035	4,200	4,975	5,597	5,660	5,749	7.3	20.8
Nuclear.....	4,691	4,783	4,938	4,938	4,975	4,975	4,958	4,958	20.4	18.0
Hydroelectric.....	1,490	1,562	1,567	1,562	1,571	1,940	1,932	1,932	6.5	7.0
Pumped Storage.....	94	94	95	95	84	84	90	86	0.4	0.3
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,791</b>	<b>3,537</b>	<b>3,438</b>	<b>3,284</b>	<b>2,508</b>	<b>2,144</b>	<b>2,136</b>	<b>2,089</b>	<b>7.8</b>	<b>7.6</b>
Coal.....	823	828	731	709	674	674	658	658	3.6	2.4
Petroleum.....	94	54	53	53	53	53	50	51	0.4	0.2
Natural Gas.....	159	1,977	1,962	1,797	1,022	1,019	1,019	970	0.7	3.5
Hydroelectric.....	369	376	385	383	383	19	19	19	1.6	0.1
Other Renewables <sup>1</sup> .....	308	264	270	305	338	342	342	342	1.3	1.2
Other <sup>2</sup> .....	37	37	37	37	37	37	47	50	0.2	0.2
<b>Total Electric Industry.....</b>	<b>22,973</b>	<b>27,263</b>	<b>27,110</b>	<b>27,107</b>	<b>27,061</b>	<b>27,644</b>	<b>27,694</b>	<b>27,618</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	13,263	13,268	13,226	13,196	13,113	13,068	13,069	12,952	57.7	46.9
Petroleum.....	885	891	595	594	563	564	558	560	3.9	2.0
Natural Gas.....	1,835	5,987	5,997	5,997	5,997	6,616	6,679	6,718	8.0	24.3
Nuclear.....	4,691	4,783	4,938	4,938	4,975	4,975	4,958	4,958	20.4	18.0
Hydroelectric.....	1,859	1,939	1,951	1,945	1,954	1,960	1,952	1,952	8.1	7.1
Other Renewables <sup>1</sup> .....	308	264	270	305	338	342	342	342	1.3	1.2
Pumped Storage.....	94	94	95	95	84	84	90	86	0.4	0.3
Other <sup>2</sup> .....	37	37	37	37	37	37	47	50	0.2	0.2

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>North Carolina</b>										
<b>Electric Utilities.....</b>	<b>109,882,388</b>	<b>118,433,112</b>	<b>118,328,694</b>	<b>121,674,733</b>	<b>117,797,331</b>	<b>123,215,621</b>	<b>118,778,090</b>	<b>112,961,309</b>	<b>93.6</b>	<b>95.4</b>
Coal.....	68,569,499	70,630,278	71,956,852	74,915,235	72,311,023	76,611,703	72,625,233	62,765,545	58.4	53.0
Petroleum.....	284,400	459,947	250,402	231,141	219,114	236,042	232,446	232,119	0.2	0.2
Natural Gas.....	851,103	1,257,328	2,019,290	2,573,322	2,476,836	3,503,270	3,257,556	3,945,064	0.7	3.3
Nuclear.....	37,523,504	40,906,900	40,090,623	39,981,739	39,963,184	40,044,705	39,776,280	40,847,711	32.0	34.5
Hydroelectric.....	2,478,485	5,059,386	3,933,276	3,826,791	2,695,832	2,682,904	3,007,639	5,125,576	2.1	4.3
Other Renewables <sup>1</sup> .....	-	-	-	-	-	-	-	2,216	-	*
Pumped Storage.....	175,397	119,273	78,251	146,505	131,342	136,996	-121,064	43,077	0.1	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>7,475,227</b>	<b>9,149,208</b>	<b>8,001,263</b>	<b>8,073,845</b>	<b>7,417,453</b>	<b>6,899,680</b>	<b>6,460,973</b>	<b>5,446,094</b>	<b>6.4</b>	<b>4.6</b>
Coal.....	3,686,007	4,145,953	3,589,263	3,520,465	3,175,982	3,371,335	3,189,553	2,317,237	3.1	2.0
Petroleum.....	377,670	323,748	360,507	287,728	232,024	259,647	87,776	64,739	0.3	0.1
Natural Gas.....	315,560	323,038	539,364	586,055	718,727	953,373	919,785	906,821	0.3	0.8
Other Gases <sup>2</sup> .....	-	17	-	-	-	-	-	-	-	-
Hydroelectric.....	1,205,701	2,141,558	1,501,923	1,569,711	1,143,180	301,255	26,003	45,681	1.0	*
Other Renewables <sup>1</sup> .....	1,637,505	1,975,716	1,732,802	1,807,148	1,828,305	1,672,219	1,922,213	1,891,188	1.4	1.6
Other <sup>3</sup> .....	252,784	239,178	277,403	302,737	319,235	341,852	315,642	220,428	0.2	0.2
<b>Total Electric Industry.....</b>	<b>117,357,615</b>	<b>127,582,320</b>	<b>126,329,957</b>	<b>129,748,578</b>	<b>125,214,784</b>	<b>130,115,301</b>	<b>125,239,063</b>	<b>118,407,403</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	72,255,506	74,776,231	75,546,115	78,435,700	75,487,005	79,983,038	75,814,787	65,082,782	61.6	55.0
Petroleum.....	662,070	783,695	610,909	518,869	451,138	495,689	320,221	296,859	0.6	0.3
Natural Gas.....	1,166,663	1,580,366	2,558,654	3,159,377	3,195,563	4,456,643	4,177,342	4,851,885	1.0	4.1
Other Gases <sup>2</sup> .....	-	17	-	-	-	-	-	-	-	-
Nuclear.....	37,523,504	40,906,900	40,090,623	39,981,739	39,963,184	40,044,705	39,776,280	40,847,711	32.0	34.5
Hydroelectric.....	3,684,186	7,200,944	5,435,199	5,396,502	3,839,012	2,984,159	3,033,642	5,171,257	3.1	4.4
Other Renewables <sup>1</sup> .....	1,637,505	1,975,716	1,732,802	1,807,148	1,828,305	1,672,219	1,922,213	1,893,404	1.4	1.6
Pumped Storage.....	175,397	119,273	78,251	146,505	131,342	136,996	-121,064	43,077	0.1	*
Other <sup>3</sup> .....	252,784	239,178	277,403	302,737	319,235	341,852	315,642	220,428	0.2	0.2

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>North Carolina</b>								
Coal (cents per million Btu) .....	144	178	200	240	269	274	326	359
Average heat value (Btu per pound).....	12,450	12,423	12,345	12,309	12,268	12,374	12,243	12,333
Average sulfur Content (percent).....	0.85	0.87	0.86	0.88	0.91	1.01	1.01	1.04
Petroleum (cents per million Btu) <sup>1</sup> .....	398	623	715	W	W	W	NM	1,014
Average heat value (Btu per gallon).....	138,169	140,848	141,338	142,869	139,114	146,617	NM	146,243
Average sulfur Content (percent).....	0.22	0.48	0.73	0.76	0.36	1.34	NM	1.06
Natural Gas (cents per million Btu).....	283	560	658	W	W	W	W	W
Average heat value (Btu per cubic foot).....	1,031	1,032	1,036	1,037	1,035	1,034	1,031	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

NM = Not meaningful due to large relative standard error. Please see Technical Notes and Appendix tables published in the Cost and Quality of Fuels.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>North Carolina</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	451	437	443	469	438	356	223	112
Petroleum.....	10	4	2	2	2	2	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	15	9	10	10	7	6	10	12
Other <sup>2</sup> .....	*	1	1	1	1	1	1	1
Total.....	476	450	456	482	447	365	236	126
<b>Nitrogen Oxide .....</b>								
Coal.....	195	129	113	103	97	57	55	39
Petroleum.....	4	3	1	1	1	1	1	1
Natural Gas.....	2	1	1	1	1	1	1	1
Other Renewables <sup>1</sup> .....	5	4	1 <sup>R</sup>	2	1	1	3	4
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	206	136	116	107	100	61	60	44
<b>Carbon Dioxide .....</b>								
Coal.....	67,710 <sup>R</sup>	70,565 <sup>R</sup>	71,053 <sup>R</sup>	74,265 <sup>R</sup>	71,435 <sup>R</sup>	76,240 <sup>R</sup>	72,736 <sup>R</sup>	62,209
Petroleum.....	1,638	1,272	967	872	821	815	539	418
Natural Gas.....	920	793	1,178	1,485	1,568	2,226	1,968	2,159
Other Gases.....	-	*	-	-	-	-	-	-
Other <sup>2</sup> .....	48 <sup>R</sup>	83	106	125	140	135	101	59
Total.....	70,315 <sup>R</sup>	72,713 <sup>R</sup>	73,304 <sup>R</sup>	76,748 <sup>R</sup>	73,964 <sup>R</sup>	79,417 <sup>R</sup>	75,344 <sup>R</sup>	64,845

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>North Carolina</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	43,648	49,349	51,717	54,073	52,851	56,095	55,740	56,311	38.0	44.1
Commercial .....	35,069	41,672	42,864	44,161	44,585	46,807	46,537	46,240	30.5	36.2
Industrial .....	34,165	30,314	31,075	30,101	29,263	28,978	27,773	25,100	29.7	19.7
Other .....	2,133	NA	NA	NA	NA	NA	NA	NA	1.9	--
Transportation.....	NA	NA	NA	*	*	*	5	7	--	*
All Sectors .....	115,015	121,335	125,657	128,335	126,699	131,881	130,054	127,658	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	3,486	4,106	4,369	4,680	4,818	5,271	5,304	5,627	47.0	52.0
Commercial .....	2,221	2,770	2,871	3,028	3,195	3,477	3,514	3,690	30.0	34.1
Industrial.....	1,560	1,453	1,516	1,516	1,531	1,584	1,537	1,504	21.1	13.9
Other.....	144	NA	NA	NA	NA	NA	NA	NA	1.9	--
Transportation.....	NA	NA	NA	*	*	*	*	*	--	*
All Sectors .....	7,412	8,329	8,756	9,224	9,544	10,332	10,356	10,821	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.99	8.32	8.45	8.65	9.12	9.40	9.52	9.99	--	--
Commercial .....	6.33	6.65	6.70	6.86	7.17	7.43	7.55	7.98	--	--
Industrial.....	4.57	4.79	4.88	5.04	5.23	5.47	5.54	5.99	--	--
Other.....	6.74	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	NA	8.33	3.23	9.09	6.57	6.83	--	--
All Sectors .....	6.44	6.86	6.97	7.19	7.53	7.83	7.96	8.48	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	3	72	1	31	NA	NA	NA	107
Number of Retail Customers .....	3,245,338	584,092	6	1,008,421	NA	NA	NA	4,837,857
Retail Sales (thousand megawatthours).....	95,087	15,454	6	17,110	NA	NA	NA	127,658
Percentage of Retail Sales .....	74.49	12.11	*	13.40	--	--	--	100.00
Revenue from Retail Sales (million dollars) .....	7,439	1,537	*	1,844	NA	NA	NA	10,821
Percentage of Revenue .....	68.75	14.21	*	17.04	--	--	--	100.00
Average Retail Price (cents/kWh).....	7.82	9.95	8.37	10.78	NA	NA	NA	8.48

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>North Carolina</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	109,882	118,433	118,329	121,675	117,797	123,216	118,778	112,961
Independent Power Producers .....	474	1,943	1,699	1,863	1,815	1,686	1,398	1,341
Combined Heat and Power, Electric .....	2,835	3,575	3,207	3,064	2,854	3,034	2,929	2,188
<b>Electric Power Sector Generation Subtotal</b> .....	<b>113,191</b>	<b>123,951</b>	<b>123,234</b>	<b>126,602</b>	<b>122,467</b>	<b>127,936</b>	<b>123,105</b>	<b>116,490</b>
Combined Heat and Power, Commercial .....	107	102	119	131	101	76	90	65
Combined Heat and Power, Industrial.....	4,059	3,529	2,977	3,015	2,648	2,103	2,044	1,853
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>4,166</b>	<b>3,631</b>	<b>3,096</b>	<b>3,147</b>	<b>2,748</b>	<b>2,180</b>	<b>2,134</b>	<b>1,918</b>
<b>Total Net Generation</b> .....	<b>117,358</b>	<b>127,582</b>	<b>126,330</b>	<b>129,749</b>	<b>125,215</b>	<b>130,115</b>	<b>125,239</b>	<b>118,407</b>
<b>Total Supply</b> .....	<b>117,358</b>	<b>127,582</b>	<b>126,330</b>	<b>129,749</b>	<b>125,215</b>	<b>130,115</b>	<b>125,239</b>	<b>118,407</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	115,015	121,304	125,657	128,335	126,699	131,881	130,054	127,658
Facility Direct Retail Sales <sup>1</sup> .....	-	31	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>115,015</b>	<b>121,335</b>	<b>125,657</b>	<b>128,335</b>	<b>126,699</b>	<b>131,881</b>	<b>130,054</b>	<b>127,658</b>
<b>Direct Use</b> .....	<b>3,990</b>	<b>4,091</b>	<b>4,096</b>	<b>2,932</b>	<b>2,350</b>	<b>2,415<sup>R</sup></b>	<b>2,880<sup>R</sup></b>	<b>2,213</b>
<b>Estimated Losses</b> .....	<b>8,337</b>	<b>7,336<sup>R</sup></b>	<b>8,910</b>	<b>13,002<sup>R</sup></b>	<b>13,398</b>	<b>10,844<sup>R</sup></b>	<b>10,239<sup>R</sup></b>	<b>9,459</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-9,985</b>	<b>-5,180</b>	<b>-12,333</b>	<b>-14,521<sup>R</sup></b>	<b>-17,233</b>	<b>-15,025<sup>R</sup></b>	<b>-17,934<sup>R</sup></b>	<b>-20,922</b>
<b>Total Disposition</b> .....	<b>117,358<sup>R</sup></b>	<b>127,582<sup>R</sup></b>	<b>126,330<sup>R</sup></b>	<b>129,749<sup>R</sup></b>	<b>125,215<sup>R</sup></b>	<b>130,115<sup>R</sup></b>	<b>125,239<sup>R</sup></b>	<b>118,407</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.92</b>	<b>0.96</b>	<b>0.91</b>	<b>0.90</b>	<b>0.88</b>	<b>0.90</b>	<b>0.87<sup>R</sup></b>	<b>0.85</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>North Dakota</b>		
NERC Region(s).....		MRO
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	5,963	40
Electric Utilities.....	4,852	34
Independent Power Producers & Combined Heat and Power.....	1,111	40
Net Generation (megawatthours).....	34,196,467	38
Electric Utilities.....	31,375,152	33
Independent Power Producers & Combined Heat and Power.....	2,821,315	41
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	121	17
Nitrogen Oxide.....	59	17
Carbon Dioxide.....	32,608	30
Sulfur Dioxide (lbs/MWh) .....	7.8	4
Nitrogen Oxide (lbs/MWh) .....	3.8	4
Carbon Dioxide (lbs/MWh).....	2,102	3
Total Retail Sales (megawatthours).....	12,648,580	42
Full Service Provider Sales (megawatthours) .....	12,648,580	41
Direct Use (megawatthours) .....	208,738	40
Average Retail Price (cents/kWh).....	6.63	47

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>North Dakota</b>			
1. Coal Creek .....	Coal	Great River Energy	1,143
2. Antelope Valley.....	Coal	Basin Electric Power Coop	900
3. Milton R Young.....	Coal	Minnkota Power Coop, Inc	697
4. Leland Olds.....	Coal	Basin Electric Power Coop	669
5. Garrison .....	Hydroelectric	USCE-Missouri River District	508
6. Coyote.....	Coal	Otter Tail Power Co	427
7. Stanton .....	Coal	Great River Energy	191
8. Tatanka Wind Power LLC.....	Other Renewables	Acciona Wind Energy USA LLC	180
9. Langdon Wind LLC.....	Other Renewables	FPL Energy Langdon Wind LLC	159

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Northern States Power Co - Minnesota.....	Investor-Owned	2,179,702	761,316	1,110,061	308,325	-
2. Otter Tail Power Co.....	Investor-Owned	1,705,992	599,775	1,037,056	69,161	-
3. Montana-Dakota Utilities Co.....	Investor-Owned	1,544,096	602,552	812,342	129,202	-
4. Basin Electric Power Coop.....	Cooperative	1,008,415	-	-	1,008,415	-
5. Cass County Electric Coop Inc.....	Cooperative	968,569	536,849	367,372	64,348	-
Total Sales, Top Five Providers.....		7,406,774	2,500,492	3,326,831	1,579,451	-
Percent of Total State Sales.....		59	56	73	43	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>4,675</b>	<b>4,562</b>	<b>4,673</b>	<b>4,625</b>	<b>4,636</b>	<b>4,668</b>	<b>4,691</b>	<b>4,852</b>	<b>99.3</b>	<b>81.4</b>
Coal.....	4,084	4,107	4,105	4,106	4,106	4,098	4,098	4,127	86.7	69.2
Petroleum.....	63	72	71	75	75	72	72	68	1.3	1.1
Natural Gas.....	10	10	10	10	10	10	10	15	0.2	0.2
Hydroelectric.....	518	371	485	432	443	486	486	508	11.0	8.5
Other Renewables <sup>1</sup> .....	-	3	3	3	3	3	26	134	-	2.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>35</b>	<b>101</b>	<b>101</b>	<b>133</b>	<b>203</b>	<b>424</b>	<b>793</b>	<b>1,111</b>	<b>0.7</b>	<b>18.6</b>
Coal.....	18	21	21	21	21	21	21	21	0.4	0.4
Petroleum.....	-	-	-	-	2	4	4	4	-	0.1
Other Gases <sup>2</sup> .....	7	8	8	8	8	8	8	8	0.2	0.1
Other Renewables <sup>1</sup> .....	9	72	71	103	171	390	759	1,078	0.2	18.1
<b>Total Electric Industry.....</b>	<b>4,710</b>	<b>4,663</b>	<b>4,774</b>	<b>4,758</b>	<b>4,839</b>	<b>5,091</b>	<b>5,484</b>	<b>5,963</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,102	4,129	4,126	4,127	4,127	4,119	4,119	4,148	87.1	69.6
Petroleum.....	63	72	71	75	77	75	75	71	1.3	1.2
Natural Gas.....	10	10	10	10	10	10	10	15	0.2	0.2
Other Gases <sup>2</sup> .....	7	8	8	8	8	8	8	8	0.2	0.1
Hydroelectric.....	518	371	485	432	443	486	486	508	11.0	8.5
Other Renewables <sup>1</sup> .....	9	74	74	105	174	393	786	1,212	0.2	20.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>North Dakota</b>										
<b>Electric Utilities.....</b>	<b>31,259,830</b>	<b>31,075,012</b>	<b>29,526,814</b>	<b>31,512,768</b>	<b>30,328,375</b>	<b>30,402,807</b>	<b>30,852,784</b>	<b>31,375,152</b>	<b>99.5</b>	<b>91.7</b>
Coal.....	28,610,457	29,298,347	27,938,264	30,133,242	28,761,820	29,041,826	29,551,647	29,486,194	91.1	86.2
Petroleum.....	40,300	45,648	36,565	32,480	39,269	47,332	40,977	41,475	0.1	0.1
Natural Gas.....	-86	-47	265	-29	49	59	-51	9	*	*
Hydroelectric.....	2,609,159	1,723,904	1,545,864	1,341,824	1,521,034	1,305,393	1,252,790	1,475,251	8.3	4.3
Other Renewables <sup>1</sup> .....	-	7,160	5,856	5,251	6,203	7,224	6,881	372,223	-	1.1
Other <sup>2</sup> .....	-	-	-	-	-	973	540	-	-	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>157,573</b>	<b>247,117</b>	<b>409,292</b>	<b>419,847</b>	<b>552,762</b>	<b>821,298</b>	<b>1,881,795</b>	<b>2,821,315</b>	<b>0.5</b>	<b>8.3</b>
Coal.....	82,577	128,964	125,960	125,517	117,171	121,727	120,583	120,771	0.3	0.4
Petroleum.....	14,621	6,244	1,866	1,785	2,810	3,486	8,116	3,541	*	*
Natural Gas.....	1,690	9,493	8,779	8,041	7,016	16,516	-	16,597	*	*
Other Gases <sup>3</sup> .....	53,121	50,096	58,417	59,422	58,939	52,515	-	43,526	0.2	0.1
Other Renewables <sup>1</sup> .....	5,564	52,320	214,270	225,083	366,826	627,055	1,699,504	2,636,879	*	7.7
Other <sup>2</sup> .....	-	-	-	-	-	-	53,593	-	-	-
<b>Total Electric Industry.....</b>	<b>31,417,403</b>	<b>31,322,129</b>	<b>29,936,106</b>	<b>31,932,615</b>	<b>30,881,137</b>	<b>31,224,105</b>	<b>32,734,579</b>	<b>34,196,467</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	28,693,034	29,427,311	28,064,224	30,258,759	28,878,991	29,163,553	29,672,230	29,606,966	91.3	86.6
Petroleum.....	54,921	51,892	38,431	34,265	42,079	50,818	49,092	45,016	0.2	0.1
Natural Gas.....	1,604	9,446	9,044	8,012	7,065	16,574	-51	16,606	*	*
Other Gases <sup>3</sup> .....	53,121	50,096	58,417	59,422	58,939	52,515	-	43,526	0.2	0.1
Hydroelectric.....	2,609,159	1,723,904	1,545,864	1,341,824	1,521,034	1,305,393	1,252,790	1,475,251	8.3	4.3
Other Renewables <sup>1</sup> .....	5,564	59,480	220,126	230,334	373,029	634,279	1,706,385	3,009,102	*	8.8
Other <sup>2</sup> .....	-	-	-	-	-	973	54,133	-	-	-

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

<sup>3</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>North Dakota</b>								
Coal (cents per million Btu) .....	73	74	77	82	88	98	110	W
Average heat value (Btu per pound).....	6,547	6,549	6,602	6,686	6,651	6,621	6,667	6,672
Average sulfur Content (percent).....	0.75	0.69	0.70	0.69	0.71	0.74	0.73	0.73
Petroleum (cents per million Btu) <sup>1</sup> .....	417	676	863	1,244	1,486	1,783	W	W
Average heat value (Btu per gallon).....	138,874	138,995	138,410	139,014	138,976	139,186	137,595	140,269
Average sulfur Content (percent).....	0.37	0.37	0.36	0.37	0.37	0.34	0.28	0.21
Natural Gas (cents per million Btu).....	404	744	778	954	1,013	599	NM	W
Average heat value (Btu per cubic foot).....	1,042	1,030	1,034	1,073	1,079	1,071	NM	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

NM = Not meaningful due to large relative standard error. Please see Technical Notes and Appendix tables published in the Cost and Quality of Fuels.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>North Dakota</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	174	128	137	125	119	125	124	121
Petroleum.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	*	*	-	*	*	*	*
Other <sup>2</sup> .....	-	-	*	-	-	-	*	-
Total.....	174	128	137	126	119	125	124	121
<b>Nitrogen Oxide .....</b>								
Coal.....	77	70	72	70	68	66	63	59
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	*
Other <sup>2</sup> .....	-	-	-	-	-	-	*	-
Total.....	78	71	73	70	68	66	63	59
<b>Carbon Dioxide .....</b>								
Coal.....	31,853 <sup>R</sup>	31,947 <sup>R</sup>	30,589 <sup>R</sup>	33,080 <sup>R</sup>	31,490 <sup>R</sup>	32,183 <sup>R</sup>	32,817 <sup>R</sup>	32,502
Petroleum.....	82	63	39	37	45	54	70	52
Natural Gas.....	4	23	29	22	19	43	*	54
Other <sup>2</sup> .....	-	-	-	-	-	1	1	-
Total.....	31,939 <sup>R</sup>	32,033 <sup>R</sup>	30,657 <sup>R</sup>	33,139 <sup>R</sup>	31,554 <sup>R</sup>	32,281 <sup>R</sup>	32,887 <sup>R</sup>	32,608

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>North Dakota</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	3,307	3,707	3,663	3,796	3,853	4,067	4,259	4,449	36.3	35.2
Commercial .....	2,350	3,800	3,843	3,994	4,127	4,215	4,460	4,558	25.8	36.0
Industrial .....	3,013	2,954	3,010	3,050	3,266	3,624	3,697	3,641	33.1	28.8
Other .....	443	NA	NA	NA	NA	NA	NA	NA	4.9	--
All Sectors .....	9,112	10,461	10,516	10,840	11,245	11,906	12,416	12,649	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	215	241	249	265	275	297	320	337	42.9	40.2
Commercial .....	145	214	225	244	260	278	304	310	29.0	37.0
Industrial.....	122	117	124	132	163	190	207	191	24.3	22.8
Other.....	19	NA	NA	NA	NA	NA	NA	NA	3.7	--
All Sectors .....	500	572	599	641	698	764	830	839	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.50	6.49	6.79	6.99	7.14	7.30	7.51	7.58	--	--
Commercial .....	6.19	5.64	5.86	6.11	6.30	6.58	6.81	6.81	--	--
Industrial.....	4.04	3.96	4.13	4.32	5.00	5.24	5.59	5.25	--	--
Other.....	4.23	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.49	5.47	5.69	5.92	6.21	6.42	6.69	6.63	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>North Dakota</b>								
Number of Entities.....	3	12	1	21	NA	NA	NA	37
Number of Retail Customers .....	219,045	11,069	27	152,248	NA	NA	NA	382,389
Retail Sales (thousand megawatthours).....	5,430	279	192	6,748	NA	NA	NA	12,649
Percentage of Retail Sales .....	42.93	2.21	1.52	53.35	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	379	18	5	437	NA	NA	NA	839
Percentage of Revenue .....	45.15	2.17	0.63	52.05	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.98	6.51	2.74	6.47	NA	NA	NA	6.63

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>North Dakota</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	31,260	31,075	29,527	31,513	30,328	30,403	30,853	31,375
Independent Power Producers .....	-	52	209	215	363	614	1,687	2,625
<b>Electric Power Sector Generation Subtotal</b> .....	<b>31,260</b>	<b>31,127</b>	<b>29,735</b>	<b>31,728</b>	<b>30,692</b>	<b>31,016</b>	<b>32,539</b>	<b>34,000</b>
Combined Heat and Power, Commercial .....	-	-	-	-	-	*	*	*
Combined Heat and Power, Industrial.....	158	195	201	205	189	207	195	196
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>158</b>	<b>195</b>	<b>201</b>	<b>205</b>	<b>189</b>	<b>208</b>	<b>195</b>	<b>196</b>
<b>Total Net Generation</b> .....	<b>31,417</b>	<b>31,322</b>	<b>29,936</b>	<b>31,933</b>	<b>30,881</b>	<b>31,224</b>	<b>32,735</b>	<b>34,196</b>
<b>Total International Imports</b> .....	<b>181</b>	<b>1,251</b>	<b>1,513</b>	<b>2,162<sup>R</sup></b>	<b>2,008</b>	<b>1,657</b>	<b>1,414</b>	<b>1,349</b>
<b>Total Supply</b> .....	<b>31,599</b>	<b>32,573</b>	<b>31,449</b>	<b>34,094<sup>R</sup></b>	<b>32,889</b>	<b>32,881</b>	<b>34,148</b>	<b>35,546</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	9,112	10,461	10,516	10,840	11,245	11,906	12,416	12,649
<b>Total Electric Industry Retail Sales</b> .....	<b>9,112</b>	<b>10,461</b>	<b>10,516</b>	<b>10,840</b>	<b>11,245</b>	<b>11,906</b>	<b>12,416</b>	<b>12,649</b>
<b>Direct Use</b> .....	<b>158</b>	<b>167</b>	<b>167</b>	<b>212</b>	<b>195</b>	<b>214<sup>R</sup></b>	<b>208</b>	<b>209</b>
<b>Total International Exports</b> .....	<b>341</b>	<b>1,664</b>	<b>1,409</b>	<b>459<sup>R</sup></b>	<b>1,251</b>	<b>328</b>	<b>606</b>	<b>610</b>
<b>Estimated Losses</b> .....	<b>661</b>	<b>2,136</b>	<b>2,132</b>	<b>1,581</b>	<b>1,567</b>	<b>1,594<sup>R</sup></b>	<b>1,571<sup>R</sup></b>	<b>1,735</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>21,327</b>	<b>18,144</b>	<b>17,225</b>	<b>21,002<sup>R</sup></b>	<b>18,630</b>	<b>18,840<sup>R</sup></b>	<b>19,347<sup>R</sup></b>	<b>20,345</b>
<b>Total Disposition</b> .....	<b>31,599<sup>R</sup></b>	<b>32,573<sup>R</sup></b>	<b>31,449<sup>R</sup></b>	<b>34,094<sup>R</sup></b>	<b>32,889<sup>R</sup></b>	<b>32,881<sup>R</sup></b>	<b>34,148<sup>R</sup></b>	<b>35,546</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>3.08</b>	<b>2.26</b>	<b>2.21</b>	<b>2.60</b>	<b>2.31</b>	<b>2.34<sup>R</sup></b>	<b>2.31<sup>R</sup></b>	<b>2.34</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Ohio</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>33,539</b>	<b>8</b>
Electric Utilities.....	20,356	12
Independent Power Producers & Combined Heat and Power.....	13,183	7
Net Generation (megawatthours).....	<b>136,090,225</b>	<b>7</b>
Electric Utilities.....	93,939,609	7
Independent Power Producers & Combined Heat and Power.....	42,150,616	9
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	624	1
Nitrogen Oxide.....	110	5
Carbon Dioxide.....	115,066	3
Sulfur Dioxide (lbs/MWh) .....	10.1	2
Nitrogen Oxide (lbs/MWh) .....	1.8	19
Carbon Dioxide (lbs/MWh).....	1,864	9
Total Retail Sales (megawatthours).....	<b>146,299,793</b>	<b>4</b>
Full Service Provider Sales (megawatthours) .....	133,347,167	4
Energy-Only Provider Sales (megawatthours).....	12,952,626	8
Direct Use (megawatthours) .....	<b>970,753</b>	<b>25</b>
Average Retail Price (cents/kWh).....	<b>9.01</b>	<b>23</b>

MWh = Megawatthours.  
kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Ohio</b>			
1. General James M Gavin .....	Coal	Ohio Power Co	2,640
2. J M Stuart.....	Coal	Dayton Power & Light Co	2,317
3. W H Sammis.....	Coal	FirstEnergy Generation Corp	2,233
4. Cardinal .....	Coal	Cardinal Operating Co	1,800
5. Conesville .....	Coal	Columbus Southern Power Co	1,695
6. Muskingum River.....	Coal	Ohio Power Co	1,375
7. Walter C Beckjord.....	Coal	Duke Energy Ohio Inc	1,304
8. W H Zimmer.....	Coal	Duke Energy Ohio Inc	1,301
9. Hanging Rock Energy Facility .....	Gas	Duke Energy Ohio Inc	1,288
10. Eastlake.....	Coal	FirstEnergy Generation Corp	1,257

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Ohio Power Co .....	Investor-Owned	24,936,379	7,338,988	5,763,156	11,834,235	-
2. Columbus Southern Power Co .....	Investor-Owned	20,525,827	7,303,185	8,444,818	4,777,824	-
3. Ohio Edison Co .....	Investor-Owned	19,043,752	7,988,988	5,778,365	5,276,399	-
4. Duke Energy Ohio Inc.....	Investor-Owned	16,984,054	6,682,671	6,995,645	3,305,738	-
5. Cleveland Electric Illum Co .....	Investor-Owned	14,450,199	4,437,751	3,879,370	6,097,087	35,991
Total Sales, Top Five Providers .....		95,940,211	33,751,583	30,861,354	31,291,283	35,991
Percent of Total State Sales .....		66	66	68	63	92

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Ohio</b>										
<b>Electric Utilities.....</b>	<b>27,083</b>	<b>27,694</b>	<b>27,684</b>	<b>19,312</b>	<b>20,147</b>	<b>20,012</b>	<b>20,340</b>	<b>20,356</b>	<b>98.9</b>	<b>60.7</b>
Coal.....	22,626	21,258	21,366	16,272	16,296	16,204	15,909	15,932	82.6	47.5
Petroleum.....	891	1,017	1,008	588	588	596	575	575	3.3	1.7
Natural Gas.....	1,271	3,056	3,074	2,346	3,156	3,105	3,749	3,741	4.6	11.2
Nuclear.....	2,042	2,108	2,108	-	-	-	-	-	7.5	-
Hydroelectric.....	164	162	122	101	101	101	101	101	0.6	0.3
Other Renewables <sup>1</sup> .....	90	94	7	7	7	7	7	7	0.3	*
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>310</b>	<b>6,366</b>	<b>6,366</b>	<b>14,558</b>	<b>13,731</b>	<b>13,743</b>	<b>13,152</b>	<b>13,183</b>	<b>1.1</b>	<b>39.3</b>
Coal.....	193	1,094	1,047	6,042	5,969	5,871	5,906	5,926	0.7	17.7
Petroleum.....	6	49	49	469	469	479	472	472	*	1.4
Natural Gas.....	17	5,124	5,113	5,812	5,006	5,064	4,443	4,443	0.1	13.2
Other Gases <sup>2</sup> .....	63	81	100	100	100	100	100	100	0.2	0.3
Nuclear.....	-	-	-	2,108	2,120	2,124	2,124	2,134	-	6.4
Other Renewables <sup>1</sup> .....	31	17	57	27	67	105	106	108	0.1	0.3
<b>Total Electric Industry.....</b>	<b>27,393</b>	<b>34,060</b>	<b>34,050</b>	<b>33,870</b>	<b>33,877</b>	<b>33,755</b>	<b>33,492</b>	<b>33,539</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	22,819	22,352	22,412	22,313	22,264	22,074	21,815	21,858	83.3	65.2
Petroleum.....	897	1,066	1,057	1,057	1,057	1,075	1,047	1,047	3.3	3.1
Natural Gas.....	1,288	8,180	8,187	8,157	8,161	8,169	8,192	8,184	4.7	24.4
Other Gases <sup>2</sup> .....	63	81	100	100	100	100	100	100	0.2	0.3
Nuclear.....	2,042	2,108	2,108	2,108	2,120	2,124	2,124	2,134	7.5	6.4
Hydroelectric.....	164	162	122	101	101	101	101	101	0.6	0.3
Other Renewables <sup>1</sup> .....	121	111	65	35	75	112	113	115	0.4	0.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Ohio</b>										
<b>Electric Utilities.....</b>	<b>140,912,140</b>	<b>139,086,083</b>	<b>142,305,499</b>	<b>102,750,838</b>	<b>98,159,139</b>	<b>100,536,445</b>	<b>98,396,809</b>	<b>93,939,609</b>	<b>99.0</b>	<b>69.0</b>
Coal.....	122,845,628	129,255,272	124,004,082	101,302,047	96,674,346	98,791,919	97,315,864	92,371,924	86.3	67.9
Petroleum.....	474,086	387,257	1,354,023	253,906	245,951	240,791	243,608	204,781	0.3	0.2
Natural Gas.....	747,385	456,255	266,954	665,873	592,505	1,078,551	435,717	820,233	0.5	0.6
Other Gases <sup>1</sup> .....	-	-	-	-	-	-	102	811	-	*
Nuclear.....	16,422,010	8,475,016	15,950,121	-	-	-	-	-	11.5	-
Hydroelectric.....	423,031	510,835	729,876	515,744	631,936	410,436	386,435	527,746	0.3	0.4
Other Renewables <sup>2</sup> .....	-	1,448	443	13,268	14,401	14,748	15,084	14,114	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,418,291</b>	<b>7,552,045</b>	<b>6,040,406</b>	<b>54,225,485</b>	<b>57,274,936</b>	<b>54,619,100</b>	<b>55,015,442</b>	<b>42,150,616</b>	<b>1.0</b>	<b>31.0</b>
Coal.....	474,513	5,513,865	4,152,700	35,523,551	36,725,810	34,338,760	33,378,446	21,340,073	0.3	15.7
Petroleum.....	9,912	22,897	34,258	1,136,487	1,108,604	906,954	1,194,329	1,106,962	*	0.8
Natural Gas.....	139,061	1,337,328	1,124,041	2,029,755	1,786,557	2,896,346	2,048,675	3,830,223	0.1	2.8
Other Gases <sup>1</sup> .....	156,424	212,523	302,063	298,339	360,007	289,273	260,822	36,666	0.1	*
Nuclear.....	-	-	-	14,802,733	16,846,939	15,764,049	17,513,878	15,206,084	-	11.2
Other Renewables <sup>2</sup> .....	638,381	439,269	427,334	432,320	444,214	420,395	608,292	619,296	0.4	0.5
Other <sup>3</sup> .....	-	26,163	11	2,299	2,805	3,322	11,000	11,312	-	*
<b>Total Electric Industry.....</b>	<b>142,330,431</b>	<b>146,638,128</b>	<b>148,345,905</b>	<b>156,976,323</b>	<b>155,434,075</b>	<b>155,155,545</b>	<b>153,412,251</b>	<b>136,090,225</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	123,320,141	134,769,137	128,156,782	136,825,598	133,400,156	133,130,679	130,694,310	113,711,997	86.6	83.6
Petroleum.....	483,998	410,154	1,388,281	1,390,393	1,354,555	1,147,746	1,437,938	1,311,743	0.3	1.0
Natural Gas.....	886,446	1,793,583	1,390,995	2,695,628	2,379,062	3,974,897	2,484,391	4,650,456	0.6	3.4
Other Gases <sup>1</sup> .....	156,424	212,523	302,063	298,339	360,007	289,273	260,924	37,477	0.1	*
Nuclear.....	16,422,010	8,475,016	15,950,121	14,802,733	16,846,939	15,764,049	17,513,878	15,206,084	11.5	11.2
Hydroelectric.....	423,031	510,835	729,876	515,744	631,936	410,436	386,435	527,746	0.3	0.4
Other Renewables <sup>2</sup> .....	638,381	440,717	427,777	445,588	458,615	435,143	623,376	633,410	0.4	0.5
Other <sup>3</sup> .....	-	26,163	11	2,299	2,805	3,322	11,000	11,312	-	*

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Ohio</b>								
Coal (cents per million Btu) .....	136	121	133	154	170	171	205	239
Average heat value (Btu per pound).....	11,918	12,160	12,098	12,097	11,525	11,495	11,444	11,768
Average sulfur Content (percent).....	1.98	2.14	2.25	2.16	1.68	1.70	1.96	2.20
Petroleum (cents per million Btu) <sup>1</sup> .....	348	731	W	1,291	1,224	W	591	488
Average heat value (Btu per gallon).....	128,624	137,810	137,986	138,193	138,150	138,026	134,567	136,305
Average sulfur Content (percent).....	0.85	0.23	0.19	0.09	0.07	0.06	3.92	3.65
Natural Gas (cents per million Btu).....	306	598	648	924	771	764	1,035	433
Average heat value (Btu per cubic foot).....	1,028	1,037	1,034	1,030	1,033	1,033	1,035	1,032

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Ohio</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	1,196	1,135	1,044	1,050	941	928	690	603
Petroleum.....	17	4	4	5	27	28	33	19
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	10	2	2	2	2	2	2	2
Other <sup>2</sup> .....	-	-	*	*	-	*	*	*
Total.....	1,222	1,141	1,050	1,057	970	958	725	624
<b>Nitrogen Oxide .....</b>								
Coal.....	392	326	247	234	220	220	216	103
Petroleum.....	4	2	1	1	1	4	4	3
Natural Gas.....	2	1	2	1	1	2	1	1
Other Gases.....	1	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	3	1	1	1	1	1	1	3
Other <sup>2</sup> .....	-	*	*	*	-	*	*	*
Total.....	402	331	251	238	224	227	222	110
<b>Carbon Dioxide .....</b>								
Coal.....	118,375 <sup>R</sup>	127,448 <sup>R</sup>	122,112 <sup>R</sup>	130,411 <sup>R</sup>	126,983 <sup>R</sup>	127,713 <sup>R</sup>	125,468 <sup>R</sup>	110,910
Petroleum.....	1,073	414	1,431	1,386	2,220	2,103	2,184 <sup>R</sup>	1,961
Natural Gas.....	1,293	1,230	1,187	1,611	1,358	2,132	1,380	2,164
Other Gases.....	-	-	-	-	-	-	*	2
Other <sup>2</sup> .....	-	-	14	9	8	23	28	29
Total.....	120,740 <sup>R</sup>	129,092 <sup>R</sup>	124,744 <sup>R</sup>	133,417 <sup>R</sup>	130,568 <sup>R</sup>	131,970 <sup>R</sup>	129,061 <sup>R</sup>	115,066

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Ohio</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	46,629	49,621	50,300	53,904	51,375	54,376	53,411	51,405	28.4	35.1
Commercial .....	39,461	44,737	45,313	46,870	46,141	48,129	47,310	45,370	24.0	31.0
Industrial .....	74,293	57,828	58,558	59,354	55,869	59,219	58,621	49,486	45.2	33.8
Other .....	3,888	NA	NA	NA	NA	NA	NA	NA	2.4	--
Transportation.....	NA	5	49	48	44	48	47	39	--	*
All Sectors .....	164,271	152,189	154,221	160,176	153,429	161,771	159,389	146,300	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	4,046	4,100	4,251	4,586	4,801	5,204	5,371	5,485	38.5	41.6
Commercial .....	3,025	3,377	3,510	3,716	3,893	4,175	4,364	4,379	28.8	33.2
Industrial.....	3,214	2,768	2,864	3,029	3,133	3,413	3,629	3,319	30.6	25.2
Other.....	232	NA	NA	NA	NA	NA	NA	NA	2.2	--
Transportation.....	NA	*	5	4	4	5	5	4	--	*
All Sectors .....	10,517	10,246	10,629	11,336	11,831	12,797	13,369	13,188	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.68	8.26	8.45	8.51	9.34	9.57	10.06	10.67	--	--
Commercial .....	7.67	7.55	7.75	7.93	8.44	8.67	9.22	9.65	--	--
Industrial.....	4.33	4.79	4.89	5.10	5.61	5.76	6.19	6.71	--	--
Other.....	5.97	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	6.17	9.21	9.03	10.13	9.98	10.68	10.73	--	--
All Sectors .....	6.40	6.73	6.89	7.08	7.71	7.91	8.39	9.01	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Ohio</b>								
Number of Entities.....	8	85	NA	25	1	9	6	134
Number of Retail Customers .....	4,361,658	375,202	NA	379,899	1	398,463	NA	5,515,223
Retail Sales (thousand megawatthours).....	116,090	9,545	NA	7,562	149	12,953	NA	146,300
Percentage of Retail Sales .....	79.35	6.52	--	5.17	0.10	8.85	--	100.00
Revenue from Retail Sales (million dollars) .....	10,467	888	NA	729	6	733	364	13,188
Percentage of Revenue .....	79.37	6.73	--	5.53	0.04	5.56	2.76	100.00
Average Retail Price (cents/kWh).....	9.02	9.30	NA	9.64	3.91	5.66	2.81	9.01

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Ohio</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	140,912	139,086	142,305	102,751	98,159	100,536	98,397	93,940
Independent Power Producers .....	-	6,124	4,699	52,817	55,836	53,366	53,646	40,775
Combined Heat and Power, Electric .....	117	382	319	328	322	350	298	472
<b>Electric Power Sector Generation Subtotal</b> .....	<b>141,029</b>	<b>145,591</b>	<b>147,324</b>	<b>155,896</b>	<b>154,317</b>	<b>154,252</b>	<b>152,341</b>	<b>135,187</b>
Combined Heat and Power, Commercial .....	3	6	*	*	-	-	-	-
Combined Heat and Power, Industrial.....	1,298	1,041	1,022	1,080	1,117	903	1,072	903
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>1,301</b>	<b>1,047</b>	<b>1,022</b>	<b>1,080</b>	<b>1,117</b>	<b>903</b>	<b>1,072</b>	<b>903</b>
<b>Total Net Generation</b> .....	<b>142,330</b>	<b>146,638</b>	<b>148,346</b>	<b>156,976</b>	<b>155,434</b>	<b>155,156</b>	<b>153,412</b>	<b>136,090</b>
<b>Total International Imports</b> .....	-	2	3	49	844	361	-	4
<b>Total Supply</b> .....	<b>142,330</b>	<b>146,640</b>	<b>148,349</b>	<b>157,025</b>	<b>156,278</b>	<b>155,517</b>	<b>153,412</b>	<b>136,094</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	164,271	127,119	126,207	133,461	140,259	148,928	147,464	133,198
Energy-Only Providers.....	*	24,940	27,882	26,716	13,170	12,843	11,757	12,953
Facility Direct Retail Sales <sup>1</sup> .....	-	130	132	-	-	-	168	149
<b>Total Electric Industry Retail Sales</b> .....	<b>164,271</b>	<b>152,189</b>	<b>154,221</b>	<b>160,176</b>	<b>153,429</b>	<b>161,771</b>	<b>159,389</b>	<b>146,300</b>
<b>Direct Use</b> .....	<b>1,377</b>	<b>1,486</b>	<b>1,488</b>	<b>1,265</b>	<b>1,296</b>	<b>1,091</b>	<b>1,213<sup>R</sup></b>	<b>971</b>
<b>Total International Exports</b> .....	-	14	68	397	225	55	-	-
<b>Estimated Losses</b> .....	<b>11,908</b>	<b>8,977<sup>R</sup></b>	<b>12,723</b>	<b>10,535<sup>R</sup></b>	<b>11,075</b>	<b>12,342<sup>R</sup></b>	<b>12,036<sup>R</sup></b>	<b>10,579</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-35,225</b>	<b>-16,026</b>	<b>-20,151</b>	<b>-15,348<sup>R</sup></b>	<b>-9,746</b>	<b>-19,743<sup>R</sup></b>	<b>-19,225<sup>R</sup></b>	<b>-21,755</b>
<b>Total Disposition</b> .....	<b>142,330<sup>R</sup></b>	<b>146,640<sup>R</sup></b>	<b>148,349<sup>R</sup></b>	<b>157,025<sup>R</sup></b>	<b>156,278<sup>R</sup></b>	<b>155,517<sup>R</sup></b>	<b>153,412<sup>R</sup></b>	<b>136,094</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.80</b>	<b>0.90</b>	<b>0.88</b>	<b>0.91</b>	<b>0.94</b>	<b>0.89</b>	<b>0.89<sup>R</sup></b>	<b>0.86</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Oklahoma</b>		
NERC Region(s).....		SPP
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	<b>20,849</b>	<b>19</b>
Electric Utilities.....	16,187	17
Independent Power Producers & Combined Heat and Power.....	4,662	19
Net Generation (megawatthours).....	<b>75,066,809</b>	<b>20</b>
Electric Utilities.....	57,516,914	17
Independent Power Producers & Combined Heat and Power.....	17,549,896	19
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	92	22
Nitrogen Oxide .....	73	11
Carbon Dioxide.....	51,986	17
Sulfur Dioxide (lbs/MWh) .....	2.7	27
Nitrogen Oxide (lbs/MWh) .....	2.1	13
Carbon Dioxide (lbs/MWh).....	1,527	19
Total Retail Sales (megawatthours).....	<b>54,536,799</b>	<b>25</b>
Full Service Provider Sales (megawatthours) .....	54,536,799	23
Direct Use (megawatthours) .....	<b>935,019</b>	<b>28</b>
Average Retail Price (cents/kWh).....	<b>6.94</b>	<b>44</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Oklahoma</b>			
1. Northeastern.....	Coal	Public Service Co of Oklahoma	1,815
2. Muskogee.....	Coal	Oklahoma Gas & Electric Co	1,695
3. Seminole .....	Gas	Oklahoma Gas & Electric Co	1,504
4. Kiamichi Energy Facility .....	Gas	Kiowa Power Partners LLC	1,178
5. Redbud Power Plant .....	Gas	Oklahoma Gas & Electric Co	1,160
6. Oneta Energy Center .....	Gas	Calpine Central L P	1,086
7. Riverside .....	Gas	Public Service Co of Oklahoma	1,070
8. Sooner.....	Coal	Oklahoma Gas & Electric Co	1,046
9. GRDA.....	Coal	Grand River Dam Authority	1,010
10. Horseshoe Lake .....	Gas	Oklahoma Gas & Electric Co	857

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Oklahoma Gas & Electric Co .....	Investor-Owned	22,028,509	8,032,436	8,508,543	5,487,530	-
2. Public Service Co of Oklahoma .....	Investor-Owned	16,955,308	6,003,522	6,209,299	4,742,487	-
3. Oklahoma Electric Coop Inc .....	Cooperative	1,029,218	695,950	214,215	119,053	-
4. City of Edmond .....	Public	777,167	447,083	318,866	11,218	-
5. Canadian Valley Elec Coop, Inc .....	Cooperative	710,413	306,723	114,999	288,691	-
Total Sales, Top Five Providers .....		41,500,615	15,485,714	15,365,922	10,648,979	-
Percent of Total State Sales .....		76	72	82	75	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>12,861</b>	<b>13,463</b>	<b>13,550</b>	<b>13,992</b>	<b>14,648</b>	<b>14,495</b>	<b>15,913</b>	<b>16,187</b>	<b>94.4</b>	<b>77.6</b>
Coal.....	4,808	4,941	4,949	4,964	4,981	4,975	4,912	4,940	35.3	23.7
Petroleum.....	61	62	68	68	72	68	69	69	0.4	0.3
Natural Gas.....	6,887	7,340	7,427	7,899	8,364	8,221	9,701	9,842	50.5	47.2
Other Gases <sup>1</sup> .....	63	61	58	-	-	-	-	-	0.5	-
Hydroelectric.....	782	800	788	800	851	851	851	854	5.7	4.1
Other Renewables <sup>2</sup> .....	-	-	-	-	120	120	120	221	-	1.1
Pumped Storage.....	260	260	260	260	260	260	260	260	1.9	1.2
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>767</b>	<b>4,776</b>	<b>5,847</b>	<b>5,782</b>	<b>5,437</b>	<b>5,467</b>	<b>4,348</b>	<b>4,662</b>	<b>5.6</b>	<b>22.4</b>
Coal.....	434	391	391	391	391	390	390	390	3.2	1.9
Petroleum.....	-	2	2	2	2	2	2	2	-	*
Natural Gas.....	240	4,111	5,182	4,836	4,491	4,427	3,284	3,282	1.8	15.7
Other Gases <sup>1</sup> .....	17	17	17	-	-	-	6	6	0.1	*
Other Renewables <sup>2</sup> .....	76	255	255	553	553	647	666	982	0.6	4.7
<b>Total Electric Industry.....</b>	<b>13,628</b>	<b>18,238</b>	<b>19,397</b>	<b>19,773</b>	<b>20,085</b>	<b>19,962</b>	<b>20,262</b>	<b>20,849</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,242	5,332	5,340	5,355	5,372	5,364	5,302	5,330	38.5	25.6
Petroleum.....	61	64	70	71	75	70	71	71	0.4	0.3
Natural Gas.....	7,127	11,451	12,609	12,735	12,854	12,649	12,985	13,125	52.3	63.0
Other Gases <sup>1</sup> .....	80	78	75	-	-	-	6	6	0.6	*
Hydroelectric.....	782	800	788	800	851	851	851	854	5.7	4.1
Other Renewables <sup>2</sup> .....	76	255	255	553	673	767	786	1,203	0.6	5.8
Pumped Storage.....	260	260	260	260	260	260	260	260	1.9	1.2

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Oklahoma</b>										
<b>Electric Utilities.....</b>	<b>50,278,792</b>	<b>49,776,514</b>	<b>48,298,390</b>	<b>54,250,814</b>	<b>51,917,155</b>	<b>54,177,692</b>	<b>60,074,823</b>	<b>57,516,914</b>	<b>91.6</b>	<b>76.6</b>
Coal.....	30,588,375	34,200,128	31,240,478	33,604,628	32,324,391	31,610,751	33,625,415	31,645,255	55.8	42.2
Petroleum.....	7,622	111,555	21,008	13,181	24,187	139,391	12,600	12,433	*	*
Natural Gas.....	16,613,770	13,872,606	14,294,108	18,156,469	19,058,314	19,169,706	22,363,598	22,034,885	30.3	29.4
Hydroelectric.....	3,175,399	1,798,412	2,976,676	2,630,361	623,579	3,065,862	3,811,273	3,552,573	5.8	4.7
Other Renewables <sup>1</sup> .....	-	-	-	-	3,157	357,826	429,535	388,599	-	0.5
Pumped Storage.....	-106,374	-206,187	-233,879	-153,825	-116,473	-165,844	-167,598	-116,831	-0.2	-0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>4,586,567</b>	<b>10,850,342</b>	<b>12,431,170</b>	<b>14,357,013</b>	<b>18,697,725</b>	<b>18,641,403</b>	<b>16,254,086</b>	<b>17,549,896</b>	<b>8.4</b>	<b>23.4</b>
Coal.....	3,121,636	2,476,198	2,560,908	2,703,928	2,707,632	2,827,186	2,689,503	2,413,852	5.7	3.2
Petroleum.....	9,003	49,655	47,305	57,161	39,563	21,097	9,935	-2,970	*	*
Natural Gas.....	1,238,536	7,950,090	8,991,471	10,433,751	13,922,376	13,974,205	11,410,569	12,596,414	2.3	16.8
Other Gases <sup>2</sup> .....	55,265	45,408	-	18,838	16,143	22,474	10,219	-	0.1	-
Other Renewables <sup>1</sup> .....	162,127	321,593	822,619	1,137,021	2,006,567	1,771,172	2,121,169	2,540,674	0.3	3.4
Other <sup>3</sup> .....	-	7,398	8,867	6,314	5,445	25,269	12,691	1,925	-	*
<b>Total Electric Industry.....</b>	<b>54,865,359</b>	<b>60,626,856</b>	<b>60,729,560</b>	<b>68,607,827</b>	<b>70,614,880</b>	<b>72,819,095</b>	<b>76,328,908</b>	<b>75,066,809</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	33,710,011	36,676,326	33,801,386	36,308,556	35,032,023	34,437,937	36,314,917	34,059,107	61.4	45.4
Petroleum.....	16,625	161,210	68,312	70,342	63,750	160,488	22,536	9,463	*	*
Natural Gas.....	17,852,306	21,822,696	23,285,579	28,590,220	32,980,690	33,143,911	33,774,167	34,631,299	32.5	46.1
Other Gases <sup>2</sup> .....	55,265	45,408	-	18,838	16,143	22,474	10,219	-	0.1	-
Hydroelectric.....	3,175,399	1,798,412	2,976,676	2,630,361	623,579	3,065,862	3,811,273	3,552,573	5.8	4.7
Other Renewables <sup>1</sup> .....	162,127	321,593	822,619	1,137,021	2,009,724	2,128,998	2,550,704	2,929,273	0.3	3.9
Pumped Storage.....	-106,374	-206,187	-233,879	-153,825	-116,473	-165,844	-167,598	-116,831	-0.2	-0.2
Other <sup>3</sup> .....	-	7,398	8,867	6,314	5,445	25,269	12,691	1,925	-	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Oklahoma</b>								
Coal (cents per million Btu) .....	91	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	8,619	8,872	8,854	8,765	8,747	8,735	8,689	8,668
Average sulfur Content (percent).....	0.31	0.41	0.40	0.41	0.42	0.41	0.36	0.34
Petroleum (cents per million Btu) <sup>1</sup> .....	496	548	609	1,199	1,331	W	W	W
Average heat value (Btu per gallon).....	142,350	142,205	145,071	140,674	151,336	146,952	145,274	143,114
Average sulfur Content (percent).....	0.05	0.45	0.56	0.30	0.42	1.49	2.38	0.88
Natural Gas (cents per million Btu).....	272	542	594	802	640	650	793	379
Average heat value (Btu per cubic foot).....	1,028	1,031	1,031	1,030	1,028	1,029	1,032	1,033

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Oklahoma</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	100	107	99	102	104	98	98	91
Petroleum.....	*	1	2	2	2	2	*	*
Natural Gas.....	*	*	*	*	*	1	*	*
Other Gases.....	*	-	-	-	*	*	*	*
Other Renewables <sup>1</sup> .....	2	3	3	3	3	3	*	1
Other <sup>2</sup> .....	*R	*	*	*	*	*	-	*
Total.....	103	111	103	106	110	104	98	92
<b>Nitrogen Oxide .....</b>								
Coal.....	72	65	60	64	61	56	56	54
Petroleum.....	4	1	*	*	1	1	*	*
Natural Gas.....	22	19	16	19	21	20	23	18
Other Gases.....	*	*	*	*	*	*	1	1
Other Renewables <sup>1</sup> .....	1	1	1	1	1	1	*	*
Other <sup>2</sup> .....	*	*	1 <sup>R</sup>	*	*	*	*	*
Total.....	99	86	77	84	84	78	79	73
<b>Carbon Dioxide .....</b>								
Coal.....	34,195 <sup>R</sup>	37,554 <sup>R</sup>	35,507 <sup>R</sup>	37,920 <sup>R</sup>	36,710 <sup>R</sup>	35,685 <sup>R</sup>	37,524 <sup>R</sup>	35,946
Petroleum.....	64	268	240	243	186	217	27	17
Natural Gas.....	10,368	11,414	11,763	13,874	15,907	16,096	15,844	15,947
Other <sup>2</sup> .....	2 <sup>R</sup>	-	128	115	130	71	4	76
Total.....	44,628 <sup>R</sup>	49,235 <sup>R</sup>	47,638 <sup>R</sup>	52,152 <sup>R</sup>	52,932 <sup>R</sup>	52,069 <sup>R</sup>	53,400 <sup>R</sup>	51,986

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Oklahoma</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	18,301	20,162	19,699	21,309	21,690	21,361	21,861	21,641	39.2	39.7
Commercial .....	12,398	16,958	17,020	17,477	18,197	18,634	19,022	18,662	26.5	34.2
Industrial .....	13,271	13,308	14,223	14,920	15,018	15,198	15,395	14,233	28.4	26.1
Other .....	2,766	NA	NA	NA	NA	NA	NA	NA	5.9	--
All Sectors .....	46,737	50,428	50,942	53,707	54,905	55,193	56,279	54,537	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,208	1,507	1,520	1,695	1,854	1,834	1,987	1,837	48.1	48.5
Commercial .....	692	1,083	1,116	1,223	1,336	1,367	1,499	1,261	27.6	33.3
Industrial.....	478	611	677	762	819	823	908	686	19.0	18.1
Other.....	133	NA	NA	NA	NA	NA	NA	NA	5.3	--
All Sectors .....	2,511	3,201	3,313	3,680	4,010	4,023	4,394	3,784	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.60	7.47	7.72	7.95	8.55	8.58	9.09	8.49	--	--
Commercial .....	5.58	6.38	6.55	7.00	7.34	7.33	7.88	6.76	--	--
Industrial.....	3.60	4.59	4.76	5.11	5.46	5.41	5.90	4.82	--	--
Other.....	4.80	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.37	6.35	6.50	6.85	7.30	7.29	7.81	6.94	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Oklahoma</b>								
Number of Entities.....	3	62	NA	31	NA	NA	NA	96
Number of Retail Customers .....	1,243,476	195,151	NA	488,909	NA	NA	NA	1,927,536
Retail Sales (thousand megawatthours).....	39,138	4,680	NA	10,719	NA	NA	NA	54,537
Percentage of Retail Sales .....	71.77	8.58	--	19.65	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	2,501	364	NA	918	NA	NA	NA	3,784
Percentage of Revenue .....	66.11	9.63	--	24.26	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.39	7.79	NA	8.57	NA	NA	NA	6.94

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Oklahoma</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	50,279	49,777	48,298	54,251	51,917	54,178	60,075	57,517
Independent Power Producers .....	-	4,247	8,913	10,282	14,784	14,871	12,651	14,423
Combined Heat and Power, Electric .....	3,434	5,217	2,256	2,822	2,642	2,854	2,682	2,318
<b>Electric Power Sector Generation Subtotal</b> .....	<b>53,712</b>	<b>59,240</b>	<b>59,467</b>	<b>67,355</b>	<b>69,344</b>	<b>71,902</b>	<b>75,409</b>	<b>74,258</b>
Combined Heat and Power, Commercial .....	39	28	18	19	25	26	24	30
Combined Heat and Power, Industrial .....	1,114	1,358	1,245	1,234	1,246	891	896	778
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>1,153</b>	<b>1,387</b>	<b>1,262</b>	<b>1,253</b>	<b>1,271</b>	<b>917</b>	<b>920</b>	<b>809</b>
<b>Total Net Generation</b> .....	<b>54,865</b>	<b>60,627</b>	<b>60,730</b>	<b>68,608</b>	<b>70,615</b>	<b>72,819</b>	<b>76,329</b>	<b>75,067</b>
<b>Total Supply</b> .....	<b>54,865</b>	<b>60,627</b>	<b>60,730</b>	<b>68,608</b>	<b>70,615</b>	<b>72,819</b>	<b>76,329</b>	<b>75,067</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	46,737	50,288	50,811	53,571	54,771	55,061	56,140	54,537
Facility Direct Retail Sales <sup>1</sup> .....	-	140	131	136	134	133	138	-
<b>Total Electric Industry Retail Sales</b> .....	<b>46,737</b>	<b>50,428</b>	<b>50,942</b>	<b>53,707</b>	<b>54,905</b>	<b>55,193</b>	<b>56,279</b>	<b>54,537</b>
<b>Direct Use</b> .....	<b>1,003</b>	<b>1,153</b>	<b>1,154</b>	<b>953</b>	<b>987</b>	<b>1,401<sup>R</sup></b>	<b>1,346<sup>R</sup></b>	<b>935</b>
<b>Total International Exports</b> .....	-	-	*	*	-	-	-	-
<b>Estimated Losses</b> .....	<b>3,388</b>	<b>3,526</b>	<b>3,433</b>	<b>4,221</b>	<b>4,715</b>	<b>5,546<sup>R</sup></b>	<b>5,404<sup>R</sup></b>	<b>5,167</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>3,738</b>	<b>5,520</b>	<b>5,201</b>	<b>9,726</b>	<b>10,007</b>	<b>10,679<sup>R</sup></b>	<b>13,300<sup>R</sup></b>	<b>14,428</b>
<b>Total Disposition</b> .....	<b>54,865<sup>R</sup></b>	<b>60,627<sup>R</sup></b>	<b>60,730<sup>R</sup></b>	<b>68,608<sup>R</sup></b>	<b>70,615<sup>R</sup></b>	<b>72,819<sup>R</sup></b>	<b>76,329<sup>R</sup></b>	<b>75,067</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.07</b>	<b>1.10</b>	<b>1.09</b>	<b>1.17</b>	<b>1.17</b>	<b>1.17<sup>R</sup></b>	<b>1.21</b>	<b>1.24</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Oregon</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Hydroelectric
Net Summer Capacity (megawatts) .....	13,985	29
Electric Utilities.....	10,683	26
Independent Power Producers & Combined Heat and Power.....	3,302	29
Net Generation (megawatthours).....	56,690,856	26
Electric Utilities.....	42,703,218	24
Independent Power Producers & Combined Heat and Power.....	13,987,638	22
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	12	41
Nitrogen Oxide.....	13	42
Carbon Dioxide.....	9,406	40
Sulfur Dioxide (lbs/MWh) .....	0.5	44
Nitrogen Oxide (lbs/MWh) .....	0.5	47
Carbon Dioxide (lbs/MWh).....	366	48
Total Retail Sales (megawatthours).....	47,566,897	28
Full Service Provider Sales (megawatthours) .....	45,255,054	27
Energy-Only Provider Sales (megawatthours).....	2,311,843	16
Direct Use (megawatthours) .....	948,298	27
Average Retail Price (cents/kWh).....	7.48	38

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Oregon</b>			
1. John Day .....	Hydroelectric	USCE-North Pacific Division	2,160
2. The Dalles.....	Hydroelectric	USCE-North Pacific Division	1,823
3. Bonneville.....	Hydroelectric	USCE-North Pacific Division	1,093
4. McNary .....	Hydroelectric	USCE-North Pacific Division	991
5. Hermiston Power Partnership.....	Gas	Hermiston Power Partnership	615
6. Boardman.....	Coal	Portland General Electric Co	585
7. Beaver.....	Gas	Portland General Electric Co	487
8. Klamath Cogeneration Plant.....	Gas	Pacific Klamath Energy Inc	470
9. Hermiston Generating Plant .....	Gas	Hermiston Generating Co LP	464
10. Hells Canyon .....	Hydroelectric	Idaho Power Co	445

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Oregon</b>						
1. Portland General Electric Co.....	Investor-Owned	17,419,212	7,900,585	7,066,983	2,443,781	7,863
2. PacifiCorp.....	Investor-Owned	13,422,043	5,651,879	5,031,886	2,722,437	15,841
3. Eugene City of.....	Public	2,406,878	1,013,771	887,091	506,016	-
4. Sempra Energy Solutions.....	Other Provider	1,962,101	-	460,513	1,501,588	-
5. Central Lincoln People's Ut Dt.....	Public	1,200,311	440,169	198,420	561,722	-
Total Sales, Top Five Providers.....		36,410,545	15,006,404	13,644,893	7,735,544	23,704
Percent of Total State Sales.....		77	76	85	66	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Oregon</b>										
<b>Electric Utilities.....</b>	<b>10,293</b>	<b>10,338</b>	<b>9,555</b>	<b>9,839</b>	<b>9,971</b>	<b>10,502</b>	<b>10,491</b>	<b>10,683</b>	<b>92.0</b>	<b>76.4</b>
Coal.....	530	556	556	585	585	585	585	585	4.7	4.2
Natural Gas.....	706	725	725	967	962	1,354	1,364	1,341	6.3	9.6
Hydroelectric.....	9,017	9,020	8,239	8,281	8,319	8,329	8,308	8,373	80.6	59.9
Other Renewables <sup>1</sup> .....	40	37	35	5	106	235	235	384	0.4	2.7
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>899</b>	<b>2,545</b>	<b>2,538</b>	<b>2,360</b>	<b>2,362</b>	<b>2,707</b>	<b>2,838</b>	<b>3,302</b>	<b>8.0</b>	<b>23.6</b>
Coal.....	13	10	10	-	-	-	-	-	0.1	-
Natural Gas.....	584	2,053	2,047	1,803	1,803	1,747	1,704	1,700	5.2	12.2
Hydroelectric.....	96	92	91	55	55	57	57	57	0.9	0.4
Other Renewables <sup>1</sup> .....	206	390	390	502	504	903	1,077	1,545	1.8	11.1
<b>Total Electric Industry.....</b>	<b>11,192</b>	<b>12,883</b>	<b>12,093</b>	<b>12,198</b>	<b>12,333</b>	<b>13,209</b>	<b>13,328</b>	<b>13,985</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	543	566	566	585	585	585	585	585	4.9	4.2
Natural Gas.....	1,290	2,778	2,771	2,770	2,764	3,101	3,068	3,041	11.5	21.7
Hydroelectric.....	9,113	9,112	8,330	8,336	8,374	8,385	8,364	8,430	81.4	60.3
Other Renewables <sup>1</sup> .....	246	427	426	508	610	1,138	1,312	1,929	2.2	13.8

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Oregon</b>										
<b>Electric Utilities.....</b>	<b>51,698,318</b>	<b>38,577,937</b>	<b>39,092,958</b>	<b>37,407,039</b>	<b>43,068,822</b>	<b>43,202,516</b>	<b>44,590,530</b>	<b>42,703,218</b>	<b>90.9</b>	<b>75.3</b>
Coal.....	3,697,900	4,285,697	3,535,764	3,463,644	2,370,628	4,351,624	4,044,319	3,196,902	6.5	5.6
Petroleum.....	7,699	44,035	20,305	47,427	4,323	5,044	9,974	2,825	*	*
Natural Gas.....	2,758,836	1,232,518	2,605,531	3,097,591	2,988,707	5,137,296	6,159,726	6,050,538	4.9	10.7
Hydroelectric.....	45,233,883	32,980,206	32,896,035	30,765,882	37,603,801	33,367,317	33,557,956	32,790,841	79.6	57.8
Other Renewables <sup>1</sup> .....	-	35,481	35,323	32,495	101,363	341,235	818,555	662,113	-	1.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>5,150,029</b>	<b>10,388,202</b>	<b>12,288,320</b>	<b>11,917,964</b>	<b>10,271,873</b>	<b>11,875,278</b>	<b>14,127,908</b>	<b>13,987,638</b>	<b>9.1</b>	<b>24.7</b>
Coal.....	24,744	19,151	19,897	2,842	-	-	-	-	*	-
Petroleum.....	330	61	42,628	30,760	7,497	9,243	4,819	5,130	*	*
Natural Gas.....	4,121,604	9,011,178	10,919,652	10,093,405	8,249,935	9,720,371	11,227,435	10,082,913	7.3	17.8
Hydroelectric.....	405,167	270,126	184,784	182,463	246,496	220,122	247,068	242,672	0.7	0.4
Other Renewables <sup>1</sup> .....	598,184	1,047,116	1,079,781	1,568,017	1,727,625	1,887,058	2,604,543	3,610,314	1.1	6.4
Other <sup>2</sup> .....	-	40,569	41,579	40,477	40,320	38,483	44,042	46,609	-	0.1
<b>Total Electric Industry.....</b>	<b>56,848,347</b>	<b>48,966,139</b>	<b>51,381,278</b>	<b>49,325,003</b>	<b>53,340,695</b>	<b>55,077,794</b>	<b>58,718,438</b>	<b>56,690,856</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,722,644	4,304,848	3,555,661	3,466,486	2,370,628	4,351,624	4,044,319	3,196,902	6.5	5.6
Petroleum.....	8,029	44,096	62,933	78,187	11,820	14,287	14,793	7,955	*	*
Natural Gas.....	6,880,440	10,243,696	13,525,183	13,190,996	11,238,642	14,857,668	17,387,162	16,133,451	12.1	28.5
Hydroelectric.....	45,639,050	33,250,332	33,080,819	30,948,345	37,850,297	33,587,439	33,805,024	33,033,513	80.3	58.3
Other Renewables <sup>1</sup> .....	598,184	1,082,597	1,115,104	1,600,512	1,828,988	2,228,293	3,423,099	4,272,427	1.1	7.5
Other <sup>2</sup> .....	-	40,569	41,579	40,477	40,320	38,483	44,042	46,609	-	0.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Oregon</b>								
Coal (cents per million Btu) .....	108	125	118	128	130	138	145	176
Average heat value (Btu per pound).....	8,961	8,516	8,402	8,356	8,321	8,360	8,339	8,426
Average sulfur Content (percent).....	0.39	0.29	0.33	0.32	0.37	0.31	0.28	0.36
Petroleum (cents per million Btu) <sup>1</sup> .....	414	787	870	1,217	1,406	1,619	W	W
Average heat value (Btu per gallon).....	140,000	138,490	141,074	139,760	139,205	143,000	NM	137,910
Average sulfur Content (percent).....	0.10	0.20	0.14	0.08	0.17	0.10	NM	0.55
Natural Gas (cents per million Btu).....	194	437	500	662	600	607	705	419
Average heat value (Btu per cubic foot).....	1,012	1,022	1,021	1,021	1,021	1,023	1,021	1,022

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

NM = Not meaningful due to large relative standard error. Please see Technical Notes and Appendix tables published in the Cost and Quality of Fuels.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Oregon</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	16	12	12	11	8	13	10	10
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	1	3	2	3	3	3	1	2
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	17	15	14	14	11	16	12	12
<b>Nitrogen Oxide .....</b>								
Coal.....	8	9	7	8	5	10	8	6
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	3	3	4	4	5	6	4	4
Other Renewables <sup>1</sup> .....	1	2	2	2	2	2	2	2
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	13	14	13	14	12	17	14	13
<b>Carbon Dioxide .....</b>								
Coal.....	3,857 <sup>R</sup>	4,320 <sup>R</sup>	3,517 <sup>R</sup>	3,458 <sup>R</sup>	2,354 <sup>R</sup>	4,191 <sup>R</sup>	3,859 <sup>R</sup>	3,033
Petroleum.....	8	43	71	88	16	20	20	11
Natural Gas.....	3,127	4,436	5,596	5,474	4,714	6,383	6,871	6,290
Other <sup>2</sup> .....	68 <sup>R</sup>	70	68	34	68	69	70	71
Total.....	7,059 <sup>R</sup>	8,868 <sup>R</sup>	9,252 <sup>R</sup>	9,053 <sup>R</sup>	7,152 <sup>R</sup>	10,663 <sup>R</sup>	10,821 <sup>R</sup>	9,406

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Oregon</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	18,058	17,736	18,001	18,339	18,978	19,374	19,910	19,804	38.0	41.6
Commercial .....	14,912	15,483	15,667	15,380	16,083	16,187	16,313	15,978	31.4	33.6
Industrial .....	14,106	11,961	11,954	12,684	12,991	13,117	12,945	11,761	29.7	24.7
Other .....	468	NA	NA	NA	NA	NA	NA	NA	1.0	--
Transportation.....	NA	15	16	17	18	18	19	24	--	*
All Sectors .....	47,544	45,195	45,636	46,419	48,069	48,697	49,187	47,567	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,038	1,252	1,293	1,330	1,419	1,586	1,691	1,719	45.2	48.3
Commercial .....	737	988	1,010	1,001	1,088	1,165	1,190	1,196	32.1	33.6
Industrial.....	490	554	529	613	630	664	674	641	21.4	18.0
Other.....	31	NA	NA	NA	NA	NA	NA	NA	1.4	--
Transportation.....	NA	1	1	1	1	1	1	2	--	*
All Sectors .....	2,297	2,795	2,833	2,945	3,139	3,416	3,556	3,557	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	5.75	7.06	7.18	7.25	7.48	8.19	8.49	8.68	--	--
Commercial .....	4.94	6.38	6.45	6.51	6.77	7.20	7.29	7.49	--	--
Industrial.....	3.48	4.63	4.43	4.83	4.85	5.06	5.21	5.45	--	--
Other.....	6.68	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	6.68	6.50	6.36	6.40	6.71	6.75	6.83	--	--
All Sectors .....	4.83	6.18	6.21	6.34	6.53	7.02	7.23	7.48	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	3	18	1	19	1	3	3	48
Number of Retail Customers .....	1,389,092	292,842	1	199,923	1	300	NA	1,882,159
Retail Sales (thousand megawatthours).....	31,514	9,020	4	4,716	1	2,312	NA	47,567
Percentage of Retail Sales .....	66.25	18.96	0.01	9.91	*	4.86	--	100.00
Revenue from Retail Sales (million dollars) .....	2,570	516	*	324	*	126	22	3,557
Percentage of Revenue .....	72.24	14.49	*	9.11	*	3.53	0.62	100.00
Average Retail Price (cents/kWh).....	8.16	5.72	3.39	6.87	4.83	5.43	0.95	7.48

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Oregon</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	51,698	38,578	39,093	37,407	43,069	43,203	44,591	42,703
Independent Power Producers .....	583	4,003	4,801	4,493	4,055	4,269	5,801	6,621
Combined Heat and Power, Electric .....	3,916	5,358	5,891	5,947	4,831	6,181	6,952	6,386
<b>Electric Power Sector Generation Subtotal</b> .....	<b>56,196</b>	<b>47,939</b>	<b>49,785</b>	<b>47,847</b>	<b>51,955</b>	<b>53,653</b>	<b>57,344</b>	<b>55,710</b>
Combined Heat and Power, Commercial .....	6	9	6	5	4	17	26	18
Combined Heat and Power, Industrial.....	646	1,018	1,591	1,473	1,382	1,408	1,348	963
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>652</b>	<b>1,027</b>	<b>1,596</b>	<b>1,478</b>	<b>1,386</b>	<b>1,425</b>	<b>1,375</b>	<b>981</b>
<b>Total Net Generation</b> .....	<b>56,848</b>	<b>48,966</b>	<b>51,381</b>	<b>49,325</b>	<b>53,341</b>	<b>55,078</b>	<b>58,718</b>	<b>56,691</b>
<b>Total International Imports</b> .....	<b>477</b>	<b>284</b>	<b>2,523</b>	<b>521</b>	<b>456</b>	<b>1,441</b>	<b>597</b>	<b>761</b>
<b>Total Supply</b> .....	<b>57,326</b>	<b>49,251</b>	<b>53,904</b>	<b>49,846</b>	<b>53,797</b>	<b>56,519</b>	<b>59,315</b>	<b>57,452</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	46,996	45,195	44,791	44,865	46,962	46,428	46,659	45,254
Energy-Only Providers.....	547	-	845	1,555	1,107	2,269	2,518	2,312
Facility Direct Retail Sales <sup>1</sup> .....	-	-	-	-	-	-	11	1
<b>Total Electric Industry Retail Sales</b> .....	<b>47,544</b>	<b>45,195</b>	<b>45,636</b>	<b>46,419</b>	<b>48,069</b>	<b>48,697</b>	<b>49,187</b>	<b>47,567</b>
<b>Direct Use</b> .....	<b>670</b>	<b>691</b>	<b>691</b>	<b>1,266</b>	<b>1,419</b>	<b>1,329<sup>R</sup></b>	<b>1,459<sup>R</sup></b>	<b>948</b>
<b>Total International Exports</b> .....	<b>167</b>	<b>6</b>	<b>77</b>	<b>445</b>	<b>470</b>	<b>207</b>	<b>272</b>	<b>472</b>
<b>Estimated Losses</b> .....	<b>3,446</b>	<b>2,594</b>	<b>2,883</b>	<b>3,228<sup>R</sup></b>	<b>3,570</b>	<b>3,790<sup>R</sup></b>	<b>3,726<sup>R</sup></b>	<b>3,338</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>5,498</b>	<b>765</b>	<b>4,615</b>	<b>-1,512<sup>R</sup></b>	<b>269</b>	<b>2,496<sup>R</sup></b>	<b>4,669<sup>R</sup></b>	<b>5,127</b>
<b>Total Disposition</b> .....	<b>57,326<sup>R</sup></b>	<b>49,251<sup>R</sup></b>	<b>53,904<sup>R</sup></b>	<b>49,846<sup>R</sup></b>	<b>53,797<sup>R</sup></b>	<b>56,519<sup>R</sup></b>	<b>59,315<sup>R</sup></b>	<b>57,452</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.11</b>	<b>1.02</b>	<b>1.09</b>	<b>0.97</b>	<b>1.01</b>	<b>1.05</b>	<b>1.09<sup>R</sup></b>	<b>1.10</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Pennsylvania</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>45,611</b>	<b>4</b>
Electric Utilities.....	455	44
Independent Power Producers & Combined Heat and Power.....	45,156	2
Net Generation (megawatthours).....	<b>219,496,144</b>	<b>2</b>
Electric Utilities.....	1,159,659	42
Independent Power Producers & Combined Heat and Power.....	218,336,485	2
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	585	2
Nitrogen Oxide.....	120	2
Carbon Dioxide.....	116,621	2
Sulfur Dioxide (lbs/MWh) .....	5.9	9
Nitrogen Oxide (lbs/MWh) .....	1.2	30
Carbon Dioxide (lbs/MWh).....	1,171	29
Total Retail Sales (megawatthours).....	<b>143,747,438</b>	<b>5</b>
Full Service Provider Sales (megawatthours) .....	132,726,219	5
Energy-Only Provider Sales (megawatthours).....	11,021,219	10
Direct Use (megawatthours) .....	<b>2,857,324</b>	<b>10</b>
Average Retail Price (cents/kWh).....	<b>9.60</b>	<b>18</b>

MWh = Megawatthours.  
kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Pennsylvania</b>			
1. Bruce Mansfield .....	Coal	FirstEnergy Generation Corp	2,510
2. PPL Susquehanna .....	Nuclear	PPL Susquehanna LLC	2,375
3. Limerick.....	Nuclear	Exelon Nuclear	2,264
4. Peach Bottom.....	Nuclear	Exelon Nuclear	2,234
5. Homer City Station.....	Coal	Midwest Generations EME LLC	1,884
6. Beaver Valley .....	Nuclear	FirstEnergy Nuclear Operating Company	1,777
7. Conemaugh.....	Coal	RRI Energy NE Management Co	1,712
8. Keystone .....	Coal	RRI Energy NE Management Co	1,711
9. PPL Martins Creek .....	Petroleum	PPL Martins Creek LLC	1,702
10. Hatfields Ferry Power Station .....	Coal	Allegheny Energy Supply Co LLC	1,590

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. PECO Energy Co.....	Investor-Owned	37,722,660	12,871,202	8,222,887	15,873,015	755,556
2. PPL Electric Utilities Corp.....	Investor-Owned	36,659,424	14,218,165	13,933,588	8,415,501	92,170
3. West Penn Power Co.....	Investor-Owned	18,927,873	7,089,630	4,683,195	7,142,172	12,876
4. Metropolitan Edison Co.....	Investor-Owned	13,481,496	5,448,240	4,601,838	3,431,418	-
5. Pennsylvania Electric Co.....	Investor-Owned	13,033,129	4,439,169	5,043,695	3,550,265	-
Total Sales, Top Five Providers.....		119,824,582	44,066,406	36,485,203	38,412,371	860,602
Percent of Total State Sales.....		83	83	79	88	98

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>25,251</b>	<b>4,921</b>	<b>4,968</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>68.8</b>	<b>1.0</b>
Coal.....	10,108	2,360	2,407	-	-	-	-	-	27.5	-
Petroleum.....	3,022	-	-	-	-	-	-	-	8.2	-
Natural Gas.....	1,911	30	30	30	30	30	30	30	5.2	0.1
Nuclear.....	8,274	1,652	1,652	-	-	-	-	-	22.5	-
Hydroelectric.....	591	444	444	425	425	425	425	425	1.6	0.9
Pumped Storage.....	1,345	435	435	-	-	-	-	-	3.7	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>11,443</b>	<b>37,448</b>	<b>40,168</b>	<b>44,442</b>	<b>44,551</b>	<b>44,651</b>	<b>44,675</b>	<b>45,156</b>	<b>31.2</b>	<b>99.0</b>
Coal.....	8,721	15,777	16,255	18,659	18,771	18,581	18,513	18,539	23.8	40.6
Petroleum.....	322	5,030	4,918	4,604	4,664	4,660	4,540	4,533	0.9	9.9
Natural Gas.....	1,060	7,053	9,354	9,371	9,319	9,380	9,477	9,461	2.9	20.7
Other Gases <sup>1</sup> .....	117	110	110	110	110	100	94	101	0.3	0.2
Nuclear.....	786	7,523	7,577	9,195	9,234	9,305	9,337	9,455	2.1	20.7
Hydroelectric.....	112	307	307	322	322	323	326	322	0.3	0.7
Other Renewables <sup>2</sup> .....	305	575	578	675	618	781	868	1,224	0.8	2.7
Pumped Storage.....	-	1,072	1,070	1,505	1,513	1,521	1,521	1,521	-	3.3
Other <sup>3</sup> .....	20	-	-	-	-	-	-	-	0.1	-
<b>Total Electric Industry.....</b>	<b>36,694</b>	<b>42,368</b>	<b>45,136</b>	<b>44,897</b>	<b>45,005</b>	<b>45,106</b>	<b>45,130</b>	<b>45,611</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	18,829	18,137	18,662	18,659	18,771	18,581	18,513	18,539	51.3	40.6
Petroleum.....	3,345	5,030	4,918	4,604	4,664	4,660	4,540	4,533	9.1	9.9
Natural Gas.....	2,970	7,083	9,384	9,400	9,349	9,410	9,507	9,491	8.1	20.8
Other Gases <sup>1</sup> .....	117	110	110	110	110	100	94	101	0.3	0.2
Nuclear.....	9,060	9,175	9,229	9,195	9,234	9,305	9,337	9,455	24.7	20.7
Hydroelectric.....	703	751	751	748	748	748	751	747	1.9	1.6
Other Renewables <sup>2</sup> .....	305	575	578	675	618	781	868	1,224	0.8	2.7
Pumped Storage.....	1,345	1,507	1,505	1,505	1,513	1,521	1,521	1,521	3.7	3.3
Other <sup>3</sup> .....	20	-	-	-	-	-	-	-	0.1	-

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Pennsylvania</b>										
<b>Electric Utilities.....</b>	<b>161,595,988</b>	<b>30,099,444</b>	<b>33,900,004</b>	<b>1,058,313</b>	<b>1,311,434</b>	<b>1,077,389</b>	<b>1,224,597</b>	<b>1,159,659</b>	<b>83.1</b>	<b>0.5</b>
Coal.....	85,580,341	15,944,113	18,396,944	-	-	-	-	-	44.0	-
Petroleum.....	3,063,268	34,944	32,129	7,717	2,942	-	873	710	1.6	*
Natural Gas.....	912,763	2,857	25,316	34,394	13,923	-	24,676	5,899	0.5	*
Nuclear.....	70,884,877	12,619,098	13,993,379	-	-	-	-	-	36.4	-
Hydroelectric.....	1,604,351	1,745,193	1,666,727	1,016,202	1,294,569	1,077,389	1,199,048	1,153,050	0.8	0.5
Pumped Storage.....	-449,612	-246,761	-214,491	-	-	-	-	-	-0.2	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>32,932,057</b>	<b>176,250,070</b>	<b>180,758,497</b>	<b>217,032,812</b>	<b>217,500,161</b>	<b>225,010,951</b>	<b>221,126,328</b>	<b>218,336,485</b>	<b>16.9</b>	<b>99.5</b>
Coal.....	25,634,033	100,065,761	98,778,839	120,933,254	122,557,903	122,693,094	117,583,412	105,474,534	13.2	48.1
Petroleum.....	432,970	4,500,393	4,109,684	4,931,845	1,515,515	1,484,074	937,051	914,377	0.2	0.4
Natural Gas.....	2,889,250	5,515,680	9,788,331	10,773,356	13,527,805	19,197,600	18,705,931	29,209,056	1.5	13.3
Other Gases <sup>1</sup> .....	575,293	508,176	583,772	540,065	554,432	533,986	609,664	442,504	0.3	0.2
Nuclear.....	242,572	61,741,764	63,465,253	76,289,432	75,297,632	77,376,316	78,658,093	77,327,686	0.1	35.2
Hydroelectric.....	342,247	1,601,074	1,488,611	1,215,977	1,549,573	1,158,593	1,349,810	1,529,816	0.2	0.7
Other Renewables <sup>2</sup> .....	2,758,035	2,097,618	2,275,653	2,329,308	2,472,946	2,546,196	2,803,776	3,351,928	1.4	1.5
Pumped Storage.....	-	-492,233	-471,393	-711,041	-698,177	-722,855	-353,762	-730,511	-	-0.3
Other <sup>3</sup> .....	57,657	711,838	739,746	730,615	722,532	743,948	832,354	817,094	*	0.4
<b>Total Electric Industry.....</b>	<b>194,528,045</b>	<b>206,349,514</b>	<b>214,658,501</b>	<b>218,091,125</b>	<b>218,811,595</b>	<b>226,088,340</b>	<b>222,350,925</b>	<b>219,496,144</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	111,214,374	116,009,874	117,175,783	120,933,254	122,557,903	122,693,094	117,583,412	105,474,534	57.2	48.1
Petroleum.....	3,496,238	4,535,337	4,141,813	4,939,562	1,518,457	1,484,074	937,924	915,087	1.8	0.4
Natural Gas.....	3,802,013	5,518,537	9,813,647	10,807,750	13,541,728	19,197,600	18,730,607	29,214,955	2.0	13.3
Other Gases <sup>1</sup> .....	575,293	508,176	583,772	540,065	554,432	533,986	609,664	442,504	0.3	0.2
Nuclear.....	71,127,449	74,360,862	77,458,632	76,289,432	75,297,632	77,376,316	78,658,093	77,327,686	36.6	35.2
Hydroelectric.....	1,946,598	3,346,267	3,155,338	2,232,179	2,844,142	2,235,982	2,548,858	2,682,866	1.0	1.2
Other Renewables <sup>2</sup> .....	2,758,035	2,097,618	2,275,653	2,329,308	2,472,946	2,546,196	2,803,776	3,351,928	1.4	1.5
Pumped Storage.....	-449,612	-738,994	-685,884	-711,041	-698,177	-722,855	-353,762	-730,511	-0.2	-0.3
Other <sup>3</sup> .....	57,657	711,838	739,746	730,615	722,532	743,948	832,354	817,094	*	0.4

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Pennsylvania</b>								
Coal (cents per million Btu) .....	130	122	137	159	172	175	210	230
Average heat value (Btu per pound).....	12,552	11,733	11,615	11,741	11,459	11,400	11,079	10,940
Average sulfur Content (percent).....	2.15	1.95	2.00	1.94	2.09	2.08	2.09	2.21
Petroleum (cents per million Btu) <sup>1</sup> .....	186	467	451	746	762	916	1,181	762
Average heat value (Btu per gallon).....	112,919	144,660	144,343	146,174	139,310	139,290	138,850	138,731
Average sulfur Content (percent).....	2.77	1.35	1.42	1.07	1.87	1.73	1.71	1.57
Natural Gas (cents per million Btu).....	293	625	723	990	772	780	1,016	461
Average heat value (Btu per cubic foot).....	1,033	1,038	1,033	1,033	1,033	1,035	1,031	1,027

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Pennsylvania</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	952	888	904	994	819	870	772	576
Petroleum.....	39	18	21	20	17	16	3	4
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	4 <sup>R</sup>	3	3	3 <sup>R</sup>	3	3	3 <sup>R</sup>	3
Other <sup>2</sup> .....	3 <sup>R</sup>	*	*	1 <sup>R</sup>	*	*	1 <sup>R</sup>	1
Total.....	999	910	929	1,019	839	889	780	585
<b>Nitrogen Oxide .....</b>								
Coal.....	185	161	160	161	156	163	165	105
Petroleum.....	21	7	9	10	7	8	2	1
Natural Gas.....	3	5	4	4	4	4	4	3
Other Gases.....	1	*	1	1	*	*	1	1
Other Renewables <sup>1</sup> .....	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	5
Other <sup>2</sup> .....	7 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	8 <sup>R</sup>	5 <sup>R</sup>	5 <sup>R</sup>	6 <sup>R</sup>	6
Total.....	220	182	182	186	176	183	181	120
<b>Carbon Dioxide .....</b>								
Coal.....	108,538 <sup>R</sup>	111,656 <sup>R</sup>	112,673 <sup>R</sup>	116,483 <sup>R</sup>	118,308 <sup>R</sup>	117,884 <sup>R</sup>	113,187 <sup>R</sup>	102,205
Petroleum.....	4,238	4,484 <sup>R</sup>	4,154 <sup>R</sup>	5,246 <sup>R</sup>	1,409 <sup>R</sup>	1,639 <sup>R</sup>	1,155 <sup>R</sup>	976
Natural Gas.....	2,590	3,041	4,990	5,209	6,302	8,481	8,192	12,029
Other Gases.....	*	3 <sup>R</sup>	4 <sup>R</sup>	1 <sup>R</sup>	7 <sup>R</sup>	2 <sup>R</sup>	1 <sup>R</sup>	1
Other <sup>2</sup> .....	1,302 <sup>R</sup>	1,224	1,190	1,184	1,241	1,292	1,461	1,410
Total.....	116,668 <sup>R</sup>	120,408 <sup>R</sup>	123,012 <sup>R</sup>	128,123 <sup>R</sup>	127,266 <sup>R</sup>	129,297 <sup>R</sup>	123,997 <sup>R</sup>	116,621

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Pennsylvania</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	44,126	49,651	50,663	53,661	51,790	54,587	54,060	52,906	34.2	36.8
Commercial .....	37,596	43,218	44,355	45,782	45,624	47,531	47,347	46,411	29.2	32.3
Industrial .....	46,059	46,773	47,659	47,950	47,920	48,579	48,131	43,552	35.7	30.3
Other .....	1,102	NA	NA	NA	NA	NA	NA	NA	0.9	--
Transportation.....	NA	727	823	880	816	876	863	879	--	0.6
All Sectors .....	128,883	140,369	143,501	148,273	146,150	151,573	150,401	143,747	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	3,909	4,760	4,853	5,289	5,359	5,977	6,137	6,162	45.2	44.7
Commercial .....	2,457	3,724	3,774	3,890	4,081	4,375	4,441	4,429	28.4	32.1
Industrial.....	2,171	2,715	2,799	3,018	3,179	3,338	3,378	3,139	25.1	22.7
Other.....	106	NA	NA	NA	NA	NA	NA	NA	1.2	--
Transportation.....	NA	57	60	64	61	68	65	68	--	0.5
All Sectors .....	8,643	11,256	11,486	12,261	12,680	13,757	14,021	13,798	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.86	9.59	9.58	9.86	10.35	10.95	11.35	11.65	--	--
Commercial .....	6.53	8.62	8.51	8.50	8.94	9.20	9.38	9.54	--	--
Industrial.....	4.71	5.80	5.87	6.29	6.63	6.87	7.02	7.21	--	--
Other.....	9.63	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.78	7.32	7.22	7.45	7.72	7.57	7.77	--	--
All Sectors .....	6.71	8.02	8.00	8.27	8.68	9.08	9.32	9.60	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Pennsylvania</b>								
Number of Entities.....	11	35	NA	13	NA	20	9	88
Number of Retail Customers .....	5,474,113	83,748	NA	216,959	NA	167,152	NA	5,941,972
Retail Sales (thousand megawatthours).....	128,672	1,391	NA	2,663	NA	11,021	NA	143,747
Percentage of Retail Sales .....	89.51	0.97	--	1.85	--	7.67	--	100.00
Revenue from Retail Sales (million dollars) .....	12,295	181	NA	292	NA	830	201	13,798
Percentage of Revenue .....	89.11	1.31	--	2.11	--	6.02	1.46	100.00
Average Retail Price (cents/kWh).....	9.56	12.98	NA	10.95	NA	7.53	1.82	9.60

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Pennsylvania</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	161,596	30,099	33,900	1,058	1,311	1,077	1,225	1,160
Independent Power Producers .....	21,630	165,678	170,336	205,816	205,075	212,668	209,081	205,083
Combined Heat and Power, Electric .....	7,107	6,774	6,676	7,629	8,854	9,033	8,978	10,278
<b>Electric Power Sector Generation Subtotal</b> .....	<b>190,333</b>	<b>202,551</b>	<b>210,912</b>	<b>214,503</b>	<b>215,240</b>	<b>222,778</b>	<b>219,284</b>	<b>216,521</b>
Combined Heat and Power, Commercial .....	431	399	414	408	400	385	246	239
Combined Heat and Power, Industrial.....	3,764	3,399	3,332	3,181	3,172	2,925	2,821	2,736
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>4,195</b>	<b>3,798</b>	<b>3,746</b>	<b>3,589</b>	<b>3,571</b>	<b>3,310</b>	<b>3,067</b>	<b>2,976</b>
<b>Total Net Generation</b> .....	<b>194,528</b>	<b>206,350</b>	<b>214,659</b>	<b>218,091</b>	<b>218,812</b>	<b>226,088</b>	<b>222,351</b>	<b>219,496</b>
<b>Total International Imports</b> .....	<b>13</b>	<b>18</b>	<b>86</b>	<b>30</b>	<b>32</b>	<b>158</b>	<b>889</b>	<b>616</b>
<b>Total Supply</b> .....	<b>194,541</b>	<b>206,367</b>	<b>214,745</b>	<b>218,122</b>	<b>218,843</b>	<b>226,246</b>	<b>223,240</b>	<b>220,113</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	96,023	127,964	130,848	137,221	137,244	140,610	139,119	132,726
Energy-Only Providers.....	32,860	12,405	12,653	11,052	8,906	10,963	11,282	11,021
<b>Total Electric Industry Retail Sales</b> .....	<b>128,883</b>	<b>140,369</b>	<b>143,501</b>	<b>148,273</b>	<b>146,150</b>	<b>151,573</b>	<b>150,401</b>	<b>143,747</b>
<b>Direct Use</b> .....	<b>4,288</b>	<b>4,478</b>	<b>4,483</b>	<b>3,287</b>	<b>2,872</b>	<b>2,324<sup>R</sup></b>	<b>4,460<sup>R</sup></b>	<b>2,857</b>
<b>Total International Exports</b> .....	<b>30</b>	<b>103</b>	<b>263</b>	<b>317</b>	<b>127</b>	<b>96</b>	<b>356</b>	<b>446</b>
<b>Estimated Losses</b> .....	<b>9,342</b>	<b>9,123</b>	<b>11,010</b>	<b>11,666<sup>R</sup></b>	<b>11,264</b>	<b>12,141<sup>R</sup></b>	<b>10,948<sup>R</sup></b>	<b>9,890</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>51,998</b>	<b>52,294</b>	<b>55,487</b>	<b>54,579<sup>R</sup></b>	<b>58,430</b>	<b>60,112<sup>R</sup></b>	<b>57,075<sup>R</sup></b>	<b>63,172</b>
<b>Total Disposition</b> .....	<b>194,541<sup>R</sup></b>	<b>206,367<sup>R</sup></b>	<b>214,745<sup>R</sup></b>	<b>218,122<sup>R</sup></b>	<b>218,843<sup>R</sup></b>	<b>226,246<sup>R</sup></b>	<b>223,240<sup>R</sup></b>	<b>220,113</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>1.36</b>	<b>1.34</b>	<b>1.35</b>	<b>1.33</b>	<b>1.36</b>	<b>1.36<sup>R</sup></b>	<b>1.34<sup>R</sup></b>	<b>1.40</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Rhode Island</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	1,780	49
Electric Utilities.....	7	50
Independent Power Producers & Combined Heat and Power.....	1,774	36
Net Generation (megawatthours).....	7,696,824	47
Electric Utilities.....	10,612	47
Independent Power Producers & Combined Heat and Power.....	7,686,212	33
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	*	50
Nitrogen Oxide.....	3	48
Carbon Dioxide.....	3,181	48
Sulfur Dioxide (lbs/MWh) .....	*	49
Nitrogen Oxide (lbs/MWh) .....	0.8	41
Carbon Dioxide (lbs/MWh).....	911	40
Total Retail Sales (megawatthours).....	7,617,629	49
Full Service Provider Sales (megawatthours) .....	5,677,262	48
Energy-Only Provider Sales (megawatthours).....	1,940,367	17
Direct Use (megawatthours) .....	56,778	45
Average Retail Price (cents/kWh).....	14.23	8

MWh = Megawatthours.

kWh = Kilowatthours.

\* = 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 \*).

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Rhode Island</b>			
1. Rhode Island State Energy Partners .....	Gas	FPL Energy Operating Serv Inc	528
2. Manchester Street .....	Gas	Dominion Energy New England, LLC	447
3. Tiverton Power Plant.....	Gas	Tiverton Power Inc	250
4. Ocean State Power.....	Gas	Ocean State Power Co	219
4. Ocean State Power II .....	Gas	Ocean State Power II	219
6. Pawtucket Power Associates .....	Gas	Pawtucket Power Associates LP	63
7. Ridgewood Providence Power .....	Other Renewables	Ridgewood Power Management LLC	24
8. Central Power Plant .....	Gas	State of Rhode Island	10
9. Rhode Island Hospital .....	Gas	Rhode Island Hospital	9
10. Block Island.....	Petroleum	Block Island Power Co	7

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. The Narragansett Electric Co .....	Investor-Owned	5,615,933	2,896,544	2,299,100	420,289	-
2. Constellation NewEnergy, Inc.....	Other Provider	501,222	-	370,904	130,318	-
3. TransCanada Power Mktg Ltd.....	Other Provider	412,510	-	-	412,510	-
4. Hess Retail Natural Gas and Elec. Acctg.....	Other Provider	347,290	-	103,102	244,188	-
5. Glacial Energy Holdings .....	Other Provider	179,306	-	179,306	-	-
Total Sales, Top Five Providers .....		7,056,261	2,896,544	2,952,412	1,207,305	-
Percent of Total State Sales .....		93	99	80	100	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Rhode Island</b>										
Electric Utilities.....	7	9	9	6	8	8	7	7	0.7	0.4
Petroleum.....	5	7	7	5	7	7	7	7	0.5	0.4
Hydroelectric .....	1	1	1	1	1	1	-	-	0.2	-
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>949</b>	<b>1,726</b>	<b>1,734</b>	<b>1,742</b>	<b>1,763</b>	<b>1,774</b>	<b>1,774</b>	<b>1,774</b>	<b>99.3</b>	<b>99.6</b>
Petroleum.....	24	10	24	24	24	22	19	10	2.5	0.5
Natural Gas.....	908	1,698	1,692	1,691	1,712	1,725	1,728	1,738	95.0	97.6
Hydroelectric .....	3	3	3	3	3	3	3	3	0.3	0.2
Other Renewables <sup>1</sup> .....	15	15	15	24	24	24	24	24	1.6	1.3
<b>Total Electric Industry.....</b>	<b>956</b>	<b>1,734</b>	<b>1,743</b>	<b>1,748</b>	<b>1,771</b>	<b>1,782</b>	<b>1,780</b>	<b>1,780</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	29	17	31	29	31	29	26	16	3.0	0.9
Natural Gas.....	908	1,698	1,692	1,691	1,712	1,725	1,728	1,738	95.0	97.6
Hydroelectric .....	4	4	4	4	4	4	3	3	0.4	0.2
Other Renewables <sup>1</sup> .....	15	15	15	24	24	24	24	24	1.6	1.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Rhode Island</b>										
<b>Electric Utilities.....</b>	<b>9,436</b>	<b>11,771</b>	<b>12,402</b>	<b>10,805</b>	<b>11,008</b>	<b>11,075</b>	<b>10,612</b>	<b>10,612</b>	<b>0.1</b>	<b>0.1</b>
Petroleum.....	9,436	11,771	12,402	10,805	11,008	11,075	10,612	10,612	0.1	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>6,367,445</b>	<b>5,609,373</b>	<b>4,927,018</b>	<b>6,042,489</b>	<b>5,956,717</b>	<b>7,038,769</b>	<b>7,376,654</b>	<b>7,686,212</b>	<b>99.9</b>	<b>99.9</b>
Petroleum.....	62,603	46,588	36,123	46,365	21,668	22,876	15,722	6,519	1.0	0.1
Natural Gas.....	6,184,600	5,454,996	4,783,907	5,989,390	5,780,227	6,856,772	7,197,548	7,530,358	97.0	97.8
Hydroelectric.....	6,050	6,021	5,461	6,734	5,909	4,364	4,977	4,736	0.1	0.1
Other Renewables <sup>1</sup> .....	114,192	101,768	101,526	-	148,913	154,757	158,407	144,600	1.8	1.9
<b>Total Electric Industry.....</b>	<b>6,376,881</b>	<b>5,621,144</b>	<b>4,939,420</b>	<b>6,053,294</b>	<b>5,967,725</b>	<b>7,049,844</b>	<b>7,387,266</b>	<b>7,696,824</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	72,039	58,359	48,525	57,170	32,676	33,951	26,334	17,131	1.1	0.2
Natural Gas.....	6,184,600	5,454,996	4,783,907	5,989,390	5,780,227	6,856,772	7,197,548	7,530,358	97.0	97.8
Hydroelectric.....	6,050	6,021	5,461	6,734	5,909	4,364	4,977	4,736	0.1	0.1
Other Renewables <sup>1</sup> .....	114,192	101,768	101,526	-	148,913	154,757	158,407	144,600	1.8	1.9

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.  
- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Rhode Island</b>								
Petroleum (cents per million Btu) <sup>1</sup> .....	-	W	W	W	-	W	1,649	W
Average heat value (Btu per gallon).....	-	140,564	140,562	135,160	-	138,571	141,786	145,243
Average sulfur Content (percent).....	-	0.14	0.09	0.03	-	0.15	0.30	0.46
Natural Gas (cents per million Btu).....	-	650	680	951	734	781	W	W
Average heat value (Btu per cubic foot).....	-	1,033	1,036	1,018	1,032	1,031	1,020	1,023

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Rhode Island</b>								
<b>Sulfur Dioxide</b> .....								
Petroleum.....	1	1	1	1	1	1	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	*
Total.....	1	1	1	1	1	1	*	*
<b>Nitrogen Oxide</b> .....								
Petroleum.....	1	*	*	*	1	*	*	*
Natural Gas.....	1	*	*	*	*	1	1	1
Other Renewables <sup>1</sup> .....	1	1	1	1	2	2	3	2
Total.....	3	2	2	2	3	3	3	3
<b>Carbon Dioxide</b> .....								
Petroleum.....	211	129	166	195	119	102	29	34
Natural Gas.....	2,965	2,283	1,952	2,421	2,408	2,859	2,959	3,147
Total.....	3,177	2,413	2,118	2,616	2,526	2,961	2,988	3,181

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Rhode Island</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	2,667	2,998	3,000	3,171	3,008	3,132	3,043	2,937	37.3	38.6
Commercial .....	3,171	3,490	3,542	3,628	3,599	3,710	3,700	3,691	44.3	48.4
Industrial .....	1,158	1,309	1,345	1,250	1,191	1,171	1,075	990	16.2	13.0
Other .....	154	NA	NA	NA	NA	NA	NA	NA	2.2	--
All Sectors .....	7,150	7,797	7,888	8,049	7,799	8,013	7,819	7,618	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	270	348	366	413	455	440	531	458	43.8	42.3
Commercial .....	245	352	373	425	486	470	568	504	39.7	46.5
Industrial.....	85	116	126	125	149	141	153	121	13.7	11.2
Other.....	17	NA	NA	NA	NA	NA	NA	NA	2.8	--
All Sectors .....	617	816	865	963	1,090	1,051	1,252	1,084	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	10.12	11.61	12.19	13.04	15.12	14.05	17.45	15.60	--	--
Commercial .....	7.73	10.09	10.53	11.71	13.51	12.67	15.36	13.67	--	--
Industrial.....	7.31	8.88	9.37	10.01	12.51	12.04	14.20	12.25	--	--
Other.....	11.20	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	8.62	10.47	10.96	11.97	13.98	13.12	16.01	14.23	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Rhode Island</b>								
Number of Entities.....	2	1	NA	NA	NA	11	1	15
Number of Retail Customers .....	479,694	4,540	NA	NA	NA	6,267	NA	490,501
Retail Sales (thousand megawatthours).....	5,626	51	NA	NA	NA	1,940	NA	7,618
Percentage of Retail Sales .....	73.86	0.67	--	--	--	25.47	--	100.00
Revenue from Retail Sales (million dollars).....	831	8	NA	NA	NA	169	76	1,084
Percentage of Revenue .....	76.70	0.70	--	--	--	15.56	7.05	100.00
Average Retail Price (cents/kWh).....	14.77	14.79	NA	NA	NA	8.69	3.94	14.23

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Rhode Island</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	9	12	12	11	11	11	11	11
Independent Power Producers .....	5,843	5,557	4,891	5,957	5,875	6,989	7,324	7,633
Combined Heat and Power, Electric .....	473	9	-	18	18	-	-	-
<b>Electric Power Sector Generation Subtotal</b> .....	<b>6,326</b>	<b>5,578</b>	<b>4,904</b>	<b>5,987</b>	<b>5,904</b>	<b>7,000</b>	<b>7,335</b>	<b>7,644</b>
Combined Heat and Power, Commercial .....	49	43	33	65	62	49	53	53
Combined Heat and Power, Industrial.....	2	*	2	2	1	1	-	-
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>51</b>	<b>43</b>	<b>36</b>	<b>67</b>	<b>64</b>	<b>50</b>	<b>53</b>	<b>53</b>
<b>Total Net Generation</b> .....	<b>6,377</b>	<b>5,621</b>	<b>4,939</b>	<b>6,053</b>	<b>5,968</b>	<b>7,050</b>	<b>7,387</b>	<b>7,697</b>
<b>Total International Imports</b> .....	<b>1,934</b>	<b>144</b>	<b>322</b>	<b>407</b>	<b>409</b>	<b>556</b>	<b>654</b>	<b>787</b>
<b>Total Supply</b> .....	<b>8,311</b>	<b>5,765</b>	<b>5,261</b>	<b>6,461<sup>R</sup></b>	<b>6,376</b>	<b>7,606</b>	<b>8,041</b>	<b>8,484</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	6,655	7,097	7,043	7,160	6,771	6,871	6,723	5,677
Energy-Only Providers.....	496	700	844	889	1,029	1,142	1,095	1,940
<b>Total Electric Industry Retail Sales</b> .....	<b>7,150</b>	<b>7,797</b>	<b>7,888</b>	<b>8,049</b>	<b>7,799</b>	<b>8,013</b>	<b>7,819</b>	<b>7,618</b>
<b>Direct Use</b> .....	<b>61</b>	<b>65</b>	<b>65</b>	<b>69</b>	<b>66</b>	<b>58</b>	<b>59</b>	<b>57</b>
<b>Total International Exports</b> .....	<b>*</b>	<b>38</b>	<b>20</b>	<b>53<sup>R</sup></b>	<b>89</b>	<b>138</b>	<b>52<sup>R</sup></b>	<b>51</b>
<b>Estimated Losses</b> .....	<b>518</b>	<b>366</b>	<b>409</b>	<b>450</b>	<b>526</b>	<b>621<sup>R</sup></b>	<b>153<sup>R</sup></b>	<b>393</b>
<b>Net Interstate Trade<sup>1</sup></b> .....	<b>582</b>	<b>-2,501</b>	<b>-3,120</b>	<b>-2,161<sup>R</sup></b>	<b>-2,104</b>	<b>-1,224<sup>R</sup></b>	<b>-41<sup>R</sup></b>	<b>365</b>
<b>Total Disposition</b> .....	<b>8,311<sup>R</sup></b>	<b>5,765<sup>R</sup></b>	<b>5,261<sup>R</sup></b>	<b>6,461<sup>R</sup></b>	<b>6,376<sup>R</sup></b>	<b>7,606<sup>R</sup></b>	<b>8,041<sup>R</sup></b>	<b>8,484</b>
<b>Net Trade Index (ratio)<sup>2</sup></b> .....	<b>1.08</b>	<b>0.70</b>	<b>0.63</b>	<b>0.75</b>	<b>0.75</b>	<b>0.86<sup>R</sup></b>	<b>0.99<sup>R</sup></b>	<b>1.04</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>South Carolina</b>		
NERC Region(s).....		SERC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts).....	23,971	16
Electric Utilities.....	22,190	9
Independent Power Producers & Combined Heat and Power.....	1,781	35
Net Generation (megawatthours).....	100,125,486	15
Electric Utilities.....	97,336,653	6
Independent Power Producers & Combined Heat and Power.....	2,788,833	42
Emissions (thousand metric tons).....		
Sulfur Dioxide.....	105	19
Nitrogen Oxide.....	24	33
Carbon Dioxide.....	38,121	24
Sulfur Dioxide (lbs/MWh).....	2.3	31
Nitrogen Oxide (lbs/MWh).....	0.5	45
Carbon Dioxide (lbs/MWh).....	839	41
Total Retail Sales (megawatthours).....	76,417,479	19
Full Service Provider Sales (megawatthours).....	76,417,479	18
Direct Use (megawatthours).....	1,901,942	17
Average Retail Price (cents/kWh).....	8.42	30

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>South Carolina</b>			
1. Oconee.....	Nuclear	Duke Energy Carolinas, LLC	2,538
2. Cross.....	Coal	South Carolina Pub Serv Auth	2,330
3. Catawba.....	Nuclear	Duke Energy Carolinas, LLC	2,258
4. Bad Creek.....	Pumped Storage	Duke Energy Carolinas, LLC	1,360
5. Winyah.....	Coal	South Carolina Pub Serv Auth	1,130
6. John S Rainey.....	Gas	South Carolina Pub Serv Auth	977
7. V C Summer.....	Nuclear	South Carolina Electric&Gas Co	966
8. H B Robinson.....	Nuclear	Progress Energy Carolinas Inc	916
9. Jasper.....	Gas	South Carolina Electric&Gas Co	852
10. Broad River Energy Center.....	Gas	Calpine Operating Services Company Inc	841

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>South Carolina</b>						
1. South Carolina Electric&Gas Co.....	Investor-Owned	21,131,988	7,893,333	7,914,375	5,324,280	-
2. Duke Energy Carolinas, LLC.....	Investor-Owned	20,078,280	6,525,520	5,770,328	7,782,432	-
3. South Carolina Pub Serv Auth.....	Public	10,205,326	1,663,701	2,040,787	6,500,838	-
4. Progress Energy Carolinas Inc.....	Investor-Owned	6,287,031	2,178,207	1,831,661	2,277,163	-
5. Berkeley Electric Coop Inc.....	Cooperative	1,602,936	1,141,180	246,951	214,805	-
Total Sales, Top Five Providers.....		59,305,561	19,401,941	17,804,102	22,099,518	-
Percent of Total State Sales.....		78	66	83	87	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>South Carolina</b>										
<b>Electric Utilities.....</b>	<b>17,681</b>	<b>19,402</b>	<b>20,406</b>	<b>20,787</b>	<b>21,019</b>	<b>21,730</b>	<b>22,152</b>	<b>22,190</b>	<b>97.4</b>	<b>92.6</b>
Coal.....	6,055	5,925	5,968	5,968	5,984	6,460	7,060	7,028	33.4	29.3
Petroleum.....	1,163	970	684	689	682	682	699	663	6.4	2.8
Natural Gas.....	576	2,437	3,712	3,708	3,923	3,956	3,919	3,964	3.2	16.5
Nuclear.....	6,431	6,472	6,472	6,472	6,472	6,472	6,472	6,486	35.4	27.1
Hydroelectric.....	1,270	1,360	1,316	1,324	1,321	1,315	1,314	1,314	7.0	5.5
Other Renewables <sup>1</sup> .....	-	3	3	9	20	20	23	20	-	0.1
Pumped Storage.....	2,187	2,235	2,251	2,616	2,616	2,826	2,666	2,716	12.1	11.3
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>467</b>	<b>1,257</b>	<b>1,790</b>	<b>1,765</b>	<b>1,764</b>	<b>1,836</b>	<b>1,860</b>	<b>1,781</b>	<b>2.6</b>	<b>7.4</b>
Coal.....	131	103	103	103	103	182	182	182	0.7	0.8
Petroleum.....	3	3	3	3	3	3	6	6	*	*
Natural Gas.....	105	895	1,430	1,408	1,404	1,400	1,417	1,347	0.6	5.6
Hydroelectric.....	26	24	24	24	24	23	23	23	0.1	0.1
Other Renewables <sup>1</sup> .....	204	232	230	227	230	230	233	223	1.1	0.9
<b>Total Electric Industry.....</b>	<b>18,149</b>	<b>20,659</b>	<b>22,196</b>	<b>22,551</b>	<b>22,782</b>	<b>23,566</b>	<b>24,012</b>	<b>23,971</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,186	6,028	6,072	6,072	6,088	6,641	7,242	7,210	34.1	30.1
Petroleum.....	1,165	972	686	692	685	685	705	669	6.4	2.8
Natural Gas.....	681	3,332	5,143	5,116	5,327	5,355	5,335	5,311	3.8	22.2
Nuclear.....	6,431	6,472	6,472	6,472	6,472	6,472	6,472	6,486	35.4	27.1
Hydroelectric.....	1,296	1,384	1,340	1,348	1,345	1,337	1,337	1,337	7.1	5.6
Other Renewables <sup>1</sup> .....	204	235	233	236	250	250	256	244	1.1	1.0
Pumped Storage.....	2,187	2,235	2,251	2,616	2,616	2,826	2,666	2,716	12.1	11.3

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>South Carolina</b>										
<b>Electric Utilities.....</b>	<b>87,347,364</b>	<b>91,544,429</b>	<b>94,406,828</b>	<b>99,104,373</b>	<b>95,872,763</b>	<b>99,997,011</b>	<b>97,921,204</b>	<b>97,336,653</b>	<b>96.8</b>	<b>97.2</b>
Coal.....	35,246,389	37,065,509	38,516,633	39,352,428	39,140,908	41,270,230	41,184,319	34,146,526	39.1	34.1
Petroleum.....	300,739	289,474	690,071	484,181	135,522	174,663	160,102	490,911	0.3	0.5
Natural Gas.....	336,811	1,365,534	2,527,103	4,153,040	4,742,493	4,599,720	4,610,728	8,876,536	0.4	8.9
Nuclear.....	50,813,559	50,417,690	51,200,640	53,137,554	50,797,372	53,199,914	51,762,950	52,149,734	56.3	52.1
Hydroelectric.....	1,646,643	3,590,944	2,382,225	2,858,778	1,766,438	1,523,502	1,100,451	2,277,232	1.8	2.3
Other Renewables <sup>1</sup> .....	-	22,091	239,246	317,067	409,929	439,597	369,219	372,158	-	0.4
Pumped Storage.....	-996,777	-1,206,813	-1,149,090	-1,198,675	-1,119,899	-1,210,614	-1,266,564	-976,443	-1.1	-1.0
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,886,144</b>	<b>2,228,249</b>	<b>3,533,101</b>	<b>3,410,292</b>	<b>3,394,843</b>	<b>3,405,130</b>	<b>3,056,801</b>	<b>2,788,833</b>	<b>3.2</b>	<b>2.8</b>
Coal.....	558,554	366,514	405,587	339,631	331,938	312,439	355,376	330,987	0.6	0.3
Petroleum.....	85,826	167,397	181,220	134,253	101,395	42,625	20,365	32,574	0.1	*
Natural Gas.....	709,739	297,248	1,270,755	1,261,143	1,325,568	1,364,839	1,118,260	903,656	0.8	0.9
Other Gases <sup>2</sup> .....	54,609	73	10	5,642	16	15	-	-	0.1	-
Hydroelectric.....	40,708	74,482	64,684	79,369	40,510	32,410	22,664	54,773	*	0.1
Other Renewables <sup>1</sup> .....	1,436,708	1,273,858	1,523,933	1,496,573	1,500,508	1,556,437	1,446,607	1,375,814	1.6	1.4
Other <sup>3</sup> .....	-	48,677	86,912	93,680	94,908	96,366	93,529	91,029	-	0.1
<b>Total Electric Industry.....</b>	<b>90,233,508</b>	<b>93,772,678</b>	<b>97,939,929</b>	<b>102,514,665</b>	<b>99,267,606</b>	<b>103,402,142</b>	<b>100,978,005</b>	<b>100,125,486</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	35,804,943	37,432,023	38,922,220	39,692,059	39,472,846	41,582,670	41,539,695	34,477,512	39.7	34.4
Petroleum.....	386,565	456,871	871,291	618,434	236,917	217,287	180,467	523,484	0.4	0.5
Natural Gas.....	1,046,550	1,662,782	3,797,858	5,414,183	6,068,061	5,964,558	5,728,988	9,780,193	1.2	9.8
Other Gases <sup>2</sup> .....	54,609	73	10	5,642	16	15	-	-	0.1	-
Nuclear.....	50,813,559	50,417,690	51,200,640	53,137,554	50,797,372	53,199,914	51,762,950	52,149,734	56.3	52.1
Hydroelectric.....	1,687,351	3,665,426	2,446,909	2,938,147	1,806,948	1,555,912	1,123,115	2,332,005	1.9	2.3
Other Renewables <sup>1</sup> .....	1,436,708	1,295,949	1,763,179	1,813,640	1,910,437	1,996,034	1,815,825	1,747,971	1.6	1.7
Pumped Storage.....	-996,777	-1,206,813	-1,149,090	-1,198,675	-1,119,899	-1,210,614	-1,266,564	-976,443	-1.1	-1.0
Other <sup>3</sup> .....	-	48,677	86,912	93,680	94,908	96,366	93,529	91,029	-	0.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>South Carolina</b>								
Coal (cents per million Btu) .....	142	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	12,809	12,669	12,565	12,617	12,584	12,539	12,435	12,471
Average sulfur Content (percent).....	1.16	1.10	1.24	1.24	1.29	1.25	1.34	1.43
Petroleum (cents per million Btu) <sup>1</sup> .....	407	W	W	W	W	W	W	804
Average heat value (Btu per gallon).....	138,150	144,988	138,905	143,257	138,717	143,581	143,710	144,667
Average sulfur Content (percent).....	0.21	1.69	3.67	2.42	2.89	1.05	1.12	1.78
Natural Gas (cents per million Btu).....	347	W	W	W	787	792	1,017	407
Average heat value (Btu per cubic foot).....	1,028	1,031	1,035	1,033	1,033	1,030	1,030	1,029

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>South Carolina</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	209	197	207	206	206	161	150	95
Petroleum.....	2	3	5	4	4	3	*	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	9 <sup>R</sup>	7	7	7	7	7	4	7
Other <sup>2</sup> .....	*	1	2	2	2	2	2	2
Total.....	221	208	221	218	219	173	156	105
<b>Nitrogen Oxide.....</b>								
Coal.....	83	72	60	47	44	41	40	19
Petroleum.....	1	1	1	1	1	1	*	*
Natural Gas.....	1	1	1	1	1	1	1	1
Other Gases.....	*	-	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	4	2 <sup>R</sup>	2	2	2 <sup>R</sup>	2 <sup>R</sup>	2	3
Other <sup>2</sup> .....	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	1 <sup>R</sup>	*
Total.....	89	76	65	51	49	46	44	24
<b>Carbon Dioxide .....</b>								
Coal.....	34,137 <sup>R</sup>	35,434 <sup>R</sup>	37,353 <sup>R</sup>	37,740 <sup>R</sup>	37,793 <sup>R</sup>	39,166 <sup>R</sup>	39,458 <sup>R</sup>	33,114
Petroleum.....	563 <sup>R</sup>	663	1,077	787 <sup>R</sup>	411	287	218	595
Natural Gas.....	726	758	1,738	2,489	2,793	2,807	2,546	4,115
Other Gases.....	150 <sup>R</sup>	*	*	16 <sup>R</sup>	*	*	-	-
Other <sup>2</sup> .....	100 <sup>R</sup>	181	252	286	299	311	321	297
Total.....	35,676 <sup>R</sup>	37,035 <sup>R</sup>	40,420 <sup>R</sup>	41,318 <sup>R</sup>	41,296 <sup>R</sup>	42,571 <sup>R</sup>	42,543 <sup>R</sup>	38,121

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>South Carolina</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	23,699	26,422	27,910	28,676	28,539	29,569	29,727	29,556	32.3	38.7
Commercial .....	16,585	19,336	20,113	20,498	20,923	21,746	21,676	21,440	22.6	28.1
Industrial .....	32,117	31,296	31,886	32,080	31,416	30,632	29,247	25,421	43.8	33.3
Other .....	903	NA	NA	NA	NA	NA	NA	NA	1.2	--
All Sectors .....	73,304	77,054	79,908	81,254	80,877	81,948	80,651	76,417	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,790	2,117	2,267	2,487	2,576	2,716	2,939	3,087	43.8	48.0
Commercial .....	1,045	1,316	1,390	1,515	1,591	1,684	1,826	1,873	25.6	29.1
Industrial.....	1,196	1,251	1,315	1,460	1,481	1,479	1,570	1,472	29.3	22.9
Other.....	54	NA	NA	NA	NA	NA	NA	NA	1.3	--
All Sectors .....	4,085	4,684	4,972	5,462	5,648	5,880	6,335	6,432	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.55	8.01	8.12	8.67	9.03	9.19	9.89	10.44	--	--
Commercial .....	6.30	6.81	6.91	7.39	7.60	7.74	8.42	8.74	--	--
Industrial.....	3.72	4.00	4.13	4.55	4.71	4.83	5.37	5.79	--	--
Other.....	5.98	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.57	6.08	6.22	6.72	6.98	7.18	7.85	8.42	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>South Carolina</b>								
Number of Entities.....	4	22	NA	21	NA	NA	NA	47
Number of Retail Customers .....	1,371,485	341,680	NA	718,561	NA	NA	NA	2,431,726
Retail Sales (thousand megawatthours).....	47,654	14,277	NA	14,486	NA	NA	NA	76,417
Percentage of Retail Sales .....	62.36	18.68	--	18.96	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	3,851	1,028	NA	1,552	NA	NA	NA	6,432
Percentage of Revenue .....	59.88	15.98	--	24.14	--	--	--	100.00
Average Retail Price (cents/kWh).....	8.08	7.20	NA	10.72	NA	NA	NA	8.42

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>South Carolina</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	87,347	91,544	94,407	99,104	95,873	99,997	97,921	97,337
Independent Power Producers .....	40	278	486	735	730	771	753	430
Combined Heat and Power, Electric .....	627	100	855	595	623	619	506	650
<b>Electric Power Sector Generation Subtotal</b> .....	<b>88,014</b>	<b>91,923</b>	<b>95,747</b>	<b>100,435</b>	<b>97,225</b>	<b>101,387</b>	<b>99,179</b>	<b>98,416</b>
Combined Heat and Power, Commercial .....	65	56	87	82	84	69	60	41
Combined Heat and Power, Industrial.....	2,154	1,794	2,106	1,998	1,958	1,946	1,738	1,668
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>2,219</b>	<b>1,850</b>	<b>2,193</b>	<b>2,080</b>	<b>2,042</b>	<b>2,015</b>	<b>1,799</b>	<b>1,709</b>
<b>Total Net Generation</b> .....	<b>90,234</b>	<b>93,773</b>	<b>97,940</b>	<b>102,515</b>	<b>99,268</b>	<b>103,402</b>	<b>100,978</b>	<b>100,125</b>
<b>Total Supply</b> .....	<b>90,234</b>	<b>93,773</b>	<b>97,940</b>	<b>102,515</b>	<b>99,268</b>	<b>103,402</b>	<b>100,978</b>	<b>100,125</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	73,304	77,054	79,908	81,254	80,877	81,948	80,641	76,417
Facility Direct Retail Sales <sup>1</sup> .....	-	-	-	-	-	-	10	-
<b>Total Electric Industry Retail Sales</b> .....	<b>73,304</b>	<b>77,054</b>	<b>79,908</b>	<b>81,254</b>	<b>80,877</b>	<b>81,948</b>	<b>80,651</b>	<b>76,417</b>
<b>Direct Use</b> .....	<b>1,972</b>	<b>2,042</b>	<b>2,044</b>	<b>1,599</b>	<b>1,620</b>	<b>1,770</b>	<b>1,978</b>	<b>1,902</b>
<b>Estimated Losses</b> .....	<b>5,314</b>	<b>4,199</b>	<b>4,891</b>	<b>5,662<sup>R</sup></b>	<b>5,469</b>	<b>6,329<sup>R</sup></b>	<b>5,988<sup>R</sup></b>	<b>5,538</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>9,644</b>	<b>10,477</b>	<b>11,096</b>	<b>14,000<sup>R</sup></b>	<b>11,302</b>	<b>13,355<sup>R</sup></b>	<b>12,361<sup>R</sup></b>	<b>16,268</b>
<b>Total Disposition</b> .....	<b>90,234<sup>R</sup></b>	<b>93,773<sup>R</sup></b>	<b>97,940<sup>R</sup></b>	<b>102,515<sup>R</sup></b>	<b>99,268<sup>R</sup></b>	<b>103,402<sup>R</sup></b>	<b>100,978<sup>R</sup></b>	<b>100,125</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.12</b>	<b>1.13</b>	<b>1.13</b>	<b>1.16</b>	<b>1.13</b>	<b>1.15<sup>R</sup></b>	<b>1.14<sup>R</sup></b>	<b>1.19</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>South Dakota</b>		
NERC Region(s).....		MRO/WECC
Primary Energy Source.....		Hydroelectric
Net Summer Capacity (megawatts) .....	3,362	45
Electric Utilities.....	3,042	36
Independent Power Producers & Combined Heat and Power.....	320	49
Net Generation (megawatthours).....	8,196,531	46
Electric Utilities.....	7,780,254	37
Independent Power Producers & Combined Heat and Power.....	416,277	49
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	11	43
Nitrogen Oxide.....	11	44
Carbon Dioxide.....	3,511	47
Sulfur Dioxide (lbs/MWh) .....	3.0	23
Nitrogen Oxide (lbs/MWh) .....	3.0	8
Carbon Dioxide (lbs/MWh).....	944	39
Total Retail Sales (megawatthours).....	11,010,118	46
Full Service Provider Sales (megawatthours) .....	11,010,118	43
Direct Use (megawatthours) .....	429	49
Average Retail Price (cents/kWh).....	7.39	39

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>South Dakota</b>			
1. Oahe.....	Hydroelectric	USCE-Missouri River District	714
2. Big Bend.....	Hydroelectric	USCE-Missouri River District	520
3. Big Stone.....	Coal	Otter Tail Power Co	476
4. Angus Anson.....	Gas	Northern States Power Co - Minnesota	384
5. Fort Randall.....	Hydroelectric	USCE-Missouri River District	360
6. Groton Generating Station.....	Gas	Basin Electric Power Coop	169
7. MinnDakota Wind LLC.....	Other Renewables	Iberdrola Renewables Inc	150
8. Spirit Mound.....	Petroleum	Basin Electric Power Coop	100
9. Ben French.....	Coal	Black Hills Power Inc	100
10. Huron.....	Gas	NorthWestern Energy	55

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Northern States Power Co - Minnesota.....	Investor-Owned	1,907,268	643,053	929,644	334,571	-
2. Black Hills Power Inc.....	Investor-Owned	1,428,355	507,398	706,295	214,662	-
3. NorthWestern Energy.....	Investor-Owned	1,420,282	523,345	647,919	249,018	-
4. Sioux Valley SW Elec Coop.....	Cooperative	525,170	265,766	36,172	223,232	-
5. Southeastern Electric Coop Inc.....	Cooperative	481,837	218,430	99,801	163,606	-
Total Sales, Top Five Providers.....		5,762,912	2,157,992	2,419,831	1,185,089	-
Percent of Total State Sales.....		52	48	57	52	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>2,895</b>	<b>2,650</b>	<b>2,618</b>	<b>2,759</b>	<b>2,889</b>	<b>2,826</b>	<b>2,911</b>	<b>3,042</b>	<b>100.0</b>	<b>90.5</b>
Coal.....	477	476	477	482	492	492	497	497	16.5	14.8
Petroleum.....	278	237	228	221	229	223	227	226	9.6	6.7
Natural Gas.....	333	385	385	553	649	645	722	722	11.5	21.5
Hydroelectric.....	1,806	1,549	1,526	1,500	1,516	1,463	1,463	1,594	62.4	47.4
Other Renewables <sup>1</sup> .....	-	3	3	3	3	3	3	3	-	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>-</b>	<b>41</b>	<b>41</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>194</b>	<b>320</b>	<b>-</b>	<b>9.5</b>
Petroleum.....	-	-	-	3	3	3	3	3	-	0.1
Other Renewables <sup>1</sup> .....	-	41	41	41	41	41	191	317	-	9.4
<b>Total Electric Industry.....</b>	<b>2,895</b>	<b>2,690</b>	<b>2,659</b>	<b>2,802</b>	<b>2,933</b>	<b>2,870</b>	<b>3,105</b>	<b>3,362</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	477	476	477	482	492	492	497	497	16.5	14.8
Petroleum.....	278	237	228	224	232	226	230	230	9.6	6.8
Natural Gas.....	333	385	385	553	649	645	722	722	11.5	21.5
Hydroelectric.....	1,806	1,549	1,526	1,500	1,516	1,463	1,463	1,594	62.4	47.4
Other Renewables <sup>1</sup> .....	-	43	43	43	43	43	193	320	-	9.5

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>South Dakota</b>										
<b>Electric Utilities.....</b>	<b>10,557,027</b>	<b>7,904,755</b>	<b>7,357,617</b>	<b>6,368,442</b>	<b>6,989,062</b>	<b>5,991,253</b>	<b>6,942,317</b>	<b>7,780,254</b>	<b>100.0</b>	<b>94.9</b>
Coal.....	3,674,400	3,431,203	3,620,001	2,996,347	3,315,911	2,655,334	3,660,482	3,217,353	34.8	39.3
Petroleum.....	24,119	16,058	22,771	20,785	4,660	62,347	22,503	7,842	0.2	0.1
Natural Gas.....	181,205	176,024	112,255	270,946	265,817	351,042	228,569	80,334	1.7	1.0
Hydroelectric.....	6,677,303	4,276,303	3,597,509	3,074,566	3,396,833	2,917,283	2,993,107	4,432,451	63.2	54.1
Other Renewables <sup>1</sup> .....	-	5,167	5,081	5,777	5,784	5,221	7,118	10,957	-	0.1
Other <sup>2</sup> .....	-	-	-	21	57	26	30,538	31,318	-	0.4
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>-</b>	<b>39,082</b>	<b>152,597</b>	<b>152,327</b>	<b>143,181</b>	<b>145,352</b>	<b>140,355</b>	<b>416,277</b>	<b>-</b>	<b>5.1</b>
Petroleum.....	-	-	-	-	-	555	672	478	-	*
Other Renewables <sup>1</sup> .....	-	39,082	152,597	152,327	143,181	144,797	139,683	415,799	-	5.1
<b>Total Electric Industry.....</b>	<b>10,557,027</b>	<b>7,943,837</b>	<b>7,510,214</b>	<b>6,520,769</b>	<b>7,132,243</b>	<b>6,136,605</b>	<b>7,082,672</b>	<b>8,196,531</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,674,400	3,431,203	3,620,001	2,996,347	3,315,911	2,655,334	3,660,482	3,217,353	34.8	39.3
Petroleum.....	24,119	16,058	22,771	20,785	4,660	62,902	23,175	8,320	0.2	0.1
Natural Gas.....	181,205	176,024	112,255	270,946	265,817	351,042	228,569	80,334	1.7	1.0
Hydroelectric.....	6,677,303	4,276,303	3,597,509	3,074,566	3,396,833	2,917,283	2,993,107	4,432,451	63.2	54.1
Other Renewables <sup>1</sup> .....	-	44,249	157,678	158,104	148,965	150,018	146,801	426,756	-	5.2
Other <sup>2</sup> .....	-	-	-	21	57	26	30,538	31,318	-	0.4

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>South Dakota</b>								
Coal (cents per million Btu) .....	94	134	139	142	151	156	174	176
Average heat value (Btu per pound).....	8,630	8,560	8,523	8,711	8,534	8,530	8,391	8,386
Average sulfur Content (percent).....	0.60	0.33	0.34	0.31	0.32	0.30	0.31	0.31
Petroleum (cents per million Btu) <sup>1</sup> .....	-	804	822	1,245	1,546	-	W	W
Average heat value (Btu per gallon).....	-	138,210	138,536	139,083	138,988	-	138,214	138,862
Average sulfur Content (percent).....	-	0.22	0.18	0.22	0.25	-	0.04	0.11
Natural Gas (cents per million Btu).....	-	-	-	-	-	-	724	514
Average heat value (Btu per cubic foot).....	-	-	-	-	-	-	1,011	1,003

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>South Dakota</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	24	11	13	10	11	8	12	11
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	-	*	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	_R	*	-	-	-	-	-	-
Other <sup>2</sup> .....	*	*	1	1	1	1	*	*
Total.....	24	12	14	10	12	9	13	11
<b>Nitrogen Oxide .....</b>								
Coal.....	22	15	16	13	13	9	13	11
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	_R	*	*	*	*	*	-	*
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	22	15	16	13	14	10	13	11
<b>Carbon Dioxide .....</b>								
Coal.....	3,689 <sup>R</sup>	3,578 <sup>R</sup>	3,835 <sup>R</sup>	3,141 <sup>R</sup>	3,398 <sup>R</sup>	2,782 <sup>R</sup>	3,848 <sup>R</sup>	3,423
Petroleum.....	25	18	24	22	8	59	21	10
Natural Gas.....	138	115	88	191	179	227	141	48
Other <sup>2</sup> .....	-	-	-	*	*	*	28	29
Total.....	3,852 <sup>R</sup>	3,712 <sup>R</sup>	3,947 <sup>R</sup>	3,355 <sup>R</sup>	3,584 <sup>R</sup>	3,069 <sup>R</sup>	4,038 <sup>R</sup>	3,511

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>South Dakota</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	3,302	3,740	3,696	3,973	4,051	4,261	4,406	4,511	41.7	41.0
Commercial .....	2,291	3,713	3,627	3,998	4,054	4,181	4,240	4,238	28.9	38.5
Industrial .....	1,949	1,627	1,891	1,840	1,952	2,161	2,328	2,260	24.6	20.5
Other .....	381	NA	NA	NA	NA	NA	NA	NA	4.8	--
All Sectors .....	7,922	9,080	9,214	9,811	10,056	10,603	10,974	11,010	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	245	280	283	309	317	344	365	383	48.7	47.1
Commercial .....	153	224	224	248	262	276	295	303	30.5	37.2
Industrial.....	89	73	87	91	94	110	124	128	17.6	15.7
Other.....	16	NA	NA	NA	NA	NA	NA	NA	3.2	--
All Sectors .....	503	577	594	648	674	730	784	813	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.42	7.47	7.65	7.77	7.83	8.07	8.27	8.49	--	--
Commercial .....	6.70	6.04	6.18	6.20	6.47	6.61	6.97	7.14	--	--
Industrial.....	4.55	4.51	4.59	4.95	4.84	5.09	5.31	5.65	--	--
Other.....	4.17	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	6.35	6.35	6.44	6.60	6.70	6.89	7.14	7.39	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>South Dakota</b>								
Number of Entities.....	6	35	1	31	NA	NA	NA	73
Number of Retail Customers .....	230,694	59,133	21	146,381	NA	NA	NA	436,229
Retail Sales (thousand megawatthours).....	5,514	1,457	318	3,722	NA	NA	NA	11,010
Percentage of Retail Sales .....	50.08	13.23	2.88	33.80	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	411	104	9	289	NA	NA	NA	813
Percentage of Revenue .....	50.60	12.75	1.09	35.56	--	--	--	100.00
Average Retail Price (cents/kWh).....	7.46	7.12	2.79	7.77	NA	NA	NA	7.39

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>South Dakota</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	10,557	7,905	7,358	6,368	6,989	5,991	6,942	7,780
Independent Power Producers .....	-	39	153	152	143	145	140	416
<b>Electric Power Sector Generation Subtotal</b> .....	<b>10,557</b>	<b>7,944</b>	<b>7,510</b>	<b>6,521</b>	<b>7,132</b>	<b>6,137</b>	<b>7,083</b>	<b>8,196</b>
Combined Heat and Power, Commercial .....	-	-	-	-	-	-	*	*
<b>Industrial and Commercial Generation Subtotal</b> .....	-	-	-	-	-	<sup>R</sup>	*	*
<b>Total Net Generation</b> .....	<b>10,557</b>	<b>7,944</b>	<b>7,510</b>	<b>6,521</b>	<b>7,132</b>	<b>6,137</b>	<b>7,083</b>	<b>8,197</b>
<b>Total International Imports</b> .....	<b>271</b>	-	-	-	-	-	-	*
<b>Total Supply</b> .....	<b>10,828</b>	<b>7,944</b>	<b>7,510</b>	<b>6,521</b>	<b>7,132</b>	<b>6,137</b>	<b>7,083</b>	<b>8,197</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	7,922	9,080	9,214	9,811	10,056	10,603	10,974	11,010
<b>Total Electric Industry Retail Sales</b> .....	<b>7,922</b>	<b>9,080</b>	<b>9,214</b>	<b>9,811</b>	<b>10,056</b>	<b>10,603</b>	<b>10,974</b>	<b>11,010</b>
<b>Direct Use</b> .....	-	-	-	-	-	-	1	*
<b>Total International Exports</b> .....	<b>44</b>	-	1	*	-	*	-	-
<b>Estimated Losses</b> .....	<b>574</b>	<b>947</b>	<b>1,094</b>	<b>908</b>	<b>872</b>	<b>1,018<sup>R</sup></b>	<b>1,050<sup>R</sup></b>	<b>1,018</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>2,287</b>	<b>-2,083</b>	<b>-2,798</b>	<b>-4,199</b>	<b>-3,796</b>	<b>-5,485<sup>R</sup></b>	<b>-4,942<sup>R</sup></b>	<b>-3,832</b>
<b>Total Disposition</b> .....	<b>10,828<sup>R</sup></b>	<b>7,944<sup>R</sup></b>	<b>7,510<sup>R</sup></b>	<b>6,521<sup>R</sup></b>	<b>7,132<sup>R</sup></b>	<b>6,137<sup>R</sup></b>	<b>7,083<sup>R</sup></b>	<b>8,197</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>1.27</b>	<b>0.79</b>	<b>0.73</b>	<b>0.61</b>	<b>0.65</b>	<b>0.53</b>	<b>0.59<sup>R</sup></b>	<b>0.68</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Tennessee</b>		
NERC Region(s).....		RFC/SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	20,852	18
Electric Utilities.....	20,418	11
Independent Power Producers & Combined Heat and Power.....	435	48
Net Generation (megawatthours).....	79,716,889	19
Electric Utilities.....	77,432,806	15
Independent Power Producers & Combined Heat and Power.....	2,284,083	44
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	125	16
Nitrogen Oxide.....	30	31
Carbon Dioxide.....	43,458	20
Sulfur Dioxide (lbs/MWh) .....	3.5	21
Nitrogen Oxide (lbs/MWh) .....	0.8	39
Carbon Dioxide (lbs/MWh).....	1,202	28
Total Retail Sales (megawatthours).....	94,650,259	13
Full Service Provider Sales (megawatthours) .....	94,650,259	10
Direct Use (megawatthours) .....	2,267,084	12
Average Retail Price (cents/kWh).....	8.69	28

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Tennessee</b>			
1. Cumberland .....	Coal	Tennessee Valley Authority	2,470
2. Johnsonville .....	Coal	Tennessee Valley Authority	2,341
3. Sequoyah .....	Nuclear	Tennessee Valley Authority	2,278
4. Raccoon Mountain.....	Pumped Storage	Tennessee Valley Authority	1,653
5. Gallatin .....	Coal	Tennessee Valley Authority	1,575
6. Kingston.....	Coal	Tennessee Valley Authority	1,398
7. Allen Steam Plant .....	Coal	Tennessee Valley Authority	1,203
8. Watts Bar Nuclear Plant .....	Nuclear	Tennessee Valley Authority	1,123
9. Lagoon Creek .....	Gas	Tennessee Valley Authority	941
10. Bull Run.....	Coal	Tennessee Valley Authority	870

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Tennessee</b>						
1. Memphis City of.....	Public	13,719,651	5,184,199	4,761,908	3,771,730	1,814
2. Nashville Electric Service .....	Public	11,666,845	4,571,419	4,236,042	2,859,384	-
3. Tennessee Valley Authority .....	Federal	6,015,485	-	-	6,015,485	-
4. Knoxville Utilities Board.....	Public	5,400,982	2,403,093	1,834,947	1,162,942	-
5. Chattanooga City of.....	Public	5,349,165	2,060,958	1,842,172	1,446,035	-
Total Sales, Top Five Providers .....		42,152,128	14,219,669	12,675,069	15,255,576	1,814
Percent of Total State Sales .....		45	35	45	57	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Tennessee</b>										
<b>Electric Utilities.....</b>	<b>17,253</b>	<b>19,235</b>	<b>19,239</b>	<b>19,120</b>	<b>19,768</b>	<b>19,977</b>	<b>20,456</b>	<b>20,418</b>	<b>93.8</b>	<b>97.9</b>
Coal.....	8,618	8,609	8,623	8,618	8,585	8,599	8,624	8,589	46.9	41.2
Petroleum.....	784	56	56	58	58	58	58	58	4.3	0.3
Natural Gas.....	732	3,128	3,137	3,032	3,659	3,632	4,082	4,099	4.0	19.7
Nuclear.....	3,357	3,398	3,398	3,398	3,398	3,397	3,397	3,401	18.3	16.3
Hydroelectric.....	2,230	2,389	2,429	2,415	2,429	2,635	2,639	2,614	12.1	12.5
Other Renewables <sup>1</sup> .....	-	2	-	2	4	4	4	4	-	*
Pumped Storage.....	1,532	1,652	1,597	1,597	1,635	1,653	1,653	1,653	8.3	7.9
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>1,132</b>	<b>1,659</b>	<b>1,702</b>	<b>1,629</b>	<b>1,137</b>	<b>885</b>	<b>435</b>	<b>435</b>	<b>6.2</b>	<b>2.1</b>
Coal.....	363	276	276	256	256	217	217	216	2.0	1.0
Natural Gas.....	540	1,106	1,106	1,034	494	469	19	20	2.9	0.1
Hydroelectric.....	170	165	179	193	209	-	-	-	0.9	-
Other Renewables <sup>1</sup> .....	20	112	141	146	179	199	199	199	0.1	1.0
Other <sup>2</sup> .....	38	-	-	-	-	-	-	-	0.2	-
<b>Total Electric Industry.....</b>	<b>18,385</b>	<b>20,893</b>	<b>20,941</b>	<b>20,749</b>	<b>20,905</b>	<b>20,861</b>	<b>20,891</b>	<b>20,852</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	8,981	8,885	8,899	8,874	8,841	8,816	8,841	8,805	48.9	42.2
Petroleum.....	784	56	56	58	58	58	58	58	4.3	0.3
Natural Gas.....	1,272	4,234	4,243	4,066	4,153	4,101	4,101	4,120	6.9	19.8
Nuclear.....	3,357	3,398	3,398	3,398	3,398	3,397	3,397	3,401	18.3	16.3
Hydroelectric.....	2,400	2,554	2,608	2,608	2,638	2,635	2,639	2,614	13.1	12.5
Other Renewables <sup>1</sup> .....	20	114	141	148	182	203	203	203	0.1	1.0
Pumped Storage.....	1,532	1,652	1,597	1,597	1,635	1,653	1,653	1,653	8.3	7.9
Other <sup>2</sup> .....	38	-	-	-	-	-	-	-	0.2	-

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Tennessee</b>										
<b>Electric Utilities.....</b>	<b>89,682,569</b>	<b>88,678,127</b>	<b>94,371,964</b>	<b>93,942,273</b>	<b>90,960,035</b>	<b>92,474,664</b>	<b>88,262,641</b>	<b>77,432,806</b>	<b>96.1</b>	<b>97.1</b>
Coal.....	55,220,519	53,376,149	56,583,558	57,560,600	59,146,323	58,849,255	55,752,210	40,426,487	59.2	50.7
Petroleum.....	502,286	379,007	166,943	201,121	137,187	155,646	207,233	182,291	0.5	0.2
Natural Gas.....	233,802	408,059	173,999	434,043	494,104	531,954	364,568	299,544	0.3	0.4
Nuclear.....	27,227,225	24,152,580	28,612,271	27,803,108	24,678,777	28,700,371	27,029,617	26,962,001	29.2	33.8
Hydroelectric.....	7,150,413	11,087,048	9,649,206	8,537,997	7,167,342	4,939,601	5,646,073	10,211,962	7.7	12.8
Other Renewables <sup>1</sup> .....	-	3,933	3,813	3,339	3,842	2,201	1,619	353	-	*
Pumped Storage.....	-651,676	-728,649	-817,826	-597,935	-667,540	-704,364	-738,679	-649,832	-0.7	-0.8
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,637,568</b>	<b>3,543,663</b>	<b>3,222,578</b>	<b>3,174,892</b>	<b>2,951,067</b>	<b>2,638,745</b>	<b>2,400,671</b>	<b>2,284,083</b>	<b>3.9</b>	<b>2.9</b>
Coal.....	1,657,519	1,545,148	1,476,074	1,490,876	1,351,523	1,388,075	1,305,919	1,206,753	1.8	1.5
Petroleum.....	13,289	26,803	23,871	29,406	23,037	76,452	8,451	4,639	*	*
Natural Gas.....	459,404	218,927	118,487	97,122	170,170	189,884	102,662	109,777	0.5	0.1
Other Gases <sup>2</sup> .....	14,451	2,834	13,325	14,598	13,635	13,488	12,030	12,010	*	*
Hydroelectric.....	651,544	916,598	758,906	771,544	581,308	-	-	-	0.7	-
Other Renewables <sup>1</sup> .....	728,529	825,903	826,116	762,746	806,757	968,325	963,691	950,115	0.8	1.2
Other <sup>3</sup> .....	112,832	7,451	5,799	8,600	4,637	2,520	7,917	788	0.1	*
<b>Total Electric Industry.....</b>	<b>93,320,137</b>	<b>92,221,790</b>	<b>97,594,542</b>	<b>97,117,165</b>	<b>93,911,102</b>	<b>95,113,409</b>	<b>90,663,312</b>	<b>79,716,889</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	56,878,038	54,921,297	58,059,632	59,051,476	60,497,846	60,237,330	57,058,129	41,633,240	60.9	52.2
Petroleum.....	515,575	405,810	190,814	230,527	160,224	232,098	215,684	186,930	0.6	0.2
Natural Gas.....	693,206	626,986	292,486	531,165	664,274	721,838	467,230	409,321	0.7	0.5
Other Gases <sup>2</sup> .....	14,451	2,834	13,325	14,598	13,635	13,488	12,030	12,010	*	*
Nuclear.....	27,227,225	24,152,580	28,612,271	27,803,108	24,678,777	28,700,371	27,029,617	26,962,001	29.2	33.8
Hydroelectric.....	7,801,957	12,003,646	10,408,112	9,309,541	7,748,650	4,939,601	5,646,073	10,211,962	8.4	12.8
Other Renewables <sup>1</sup> .....	728,529	829,836	829,929	766,085	810,599	970,526	965,310	950,468	0.8	1.2
Pumped Storage.....	-651,676	-728,649	-817,826	-597,935	-667,540	-704,364	-738,679	-649,832	-0.7	-0.8
Other <sup>3</sup> .....	112,832	7,451	5,799	8,600	4,637	2,520	7,917	788	0.1	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Tennessee</b>								
Coal (cents per million Btu) .....	113	W	W	W	W	W	W	257
Average heat value (Btu per pound).....	11,635	11,465	11,457	10,993	10,819	11,255	11,090	11,057
Average sulfur Content (percent).....	1.58	1.19	1.27	1.09	1.11	1.16	1.22	1.33
Petroleum (cents per million Btu) <sup>1</sup> .....	393	619	842	1,262	1,400	1,611	W	W
Average heat value (Btu per gallon).....	139,900	139,902	139,357	137,160	136,379	135,000	136,198	136,798
Average sulfur Content (percent).....	0.50	0.50	0.50	0.42	0.40	0.50	0.28	0.25
Natural Gas (cents per million Btu).....	-	620	W	870	W	W	W	501
Average heat value (Btu per cubic foot).....	-	1,025	1,035	1,032	1,030	1,032	1,031	1,031

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Tennessee</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	484	336	310	270	263	240	213	118
Petroleum.....	1	1	1	1	*	*	*	*
Natural Gas.....	*	*	-	-	-	-	*	*
Other Gases.....	*	-	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	3	7	7	7	6	6	7	7
Other <sup>2</sup> .....	*	*	*	*	*	*	-	-
Total.....	488	345	318	278	270	247	221	125
<b>Nitrogen Oxide .....</b>								
Coal.....	176	124	103	95	98	96	80	28
Petroleum.....	3	2	*	*	*	*	*	*
Natural Gas.....	1	2	*	1	1	1	*	1
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	2 <sup>R</sup>	1	1	1	1	1	1	1
Other <sup>2</sup> .....	1 <sup>R</sup>	*	*	*	*	*	*	-
Total.....	183	129	105	97	100	98	82	30
<b>Carbon Dioxide .....</b>								
Coal.....	58,774 <sup>R</sup>	55,434 <sup>R</sup>	58,725 <sup>R</sup>	59,873 <sup>R</sup>	61,362 <sup>R</sup>	60,687 <sup>R</sup>	58,096 <sup>R</sup>	42,954
Petroleum.....	491	464	245	289	212	344	211	167
Natural Gas.....	764	574	322	447	567	565	364	337
Other <sup>2</sup> .....	131 <sup>R</sup>	8	16	25	9	3	-	-
Total.....	60,160 <sup>R</sup>	56,481 <sup>R</sup>	59,308 <sup>R</sup>	60,634 <sup>R</sup>	62,150 <sup>R</sup>	61,600 <sup>R</sup>	58,671 <sup>R</sup>	43,458

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Tennessee</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	35,425	37,697	38,526	41,132	40,816	42,880	41,947	40,117	38.0	42.4
Commercial .....	25,228	27,481	28,249	29,146	29,033	29,985	29,418	27,962	27.1	29.5
Industrial .....	31,493	32,278	32,885	33,625	34,081	33,850	32,804	26,569	33.8	28.1
Other .....	1,035	NA	NA	NA	NA	NA	NA	NA	1.1	--
Transportation.....	NA	NA	1	1	1	2	2	2	--	*
All Sectors .....	93,180	97,456	99,661	103,905	103,932	106,717	104,170	94,650	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	2,247	2,467	2,657	2,872	3,164	3,363	3,739	3,740	42.9	45.5
Commercial .....	1,586	1,836	1,992	2,090	2,323	2,426	2,718	2,686	30.3	32.7
Industrial.....	1,319	1,384	1,466	1,591	1,761	1,758	2,063	1,797	25.2	21.9
Other.....	90	NA	NA	NA	NA	NA	NA	NA	1.7	--
Transportation.....	NA	NA	*	*	*	*	*	*	--	*
All Sectors .....	5,242	5,687	6,115	6,553	7,248	7,547	8,520	8,223	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.34	6.55	6.90	6.98	7.75	7.84	8.91	9.32	--	--
Commercial .....	6.29	6.68	7.05	7.17	8.00	8.09	9.24	9.61	--	--
Industrial.....	4.19	4.29	4.46	4.73	5.17	5.19	6.29	6.76	--	--
Other.....	8.71	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	11.75	11.46	11.18	10.31	10.17	10.69	--	--
All Sectors .....	5.63	5.84	6.14	6.31	6.97	7.07	8.18	8.69	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Tennessee</b>								
Number of Entities.....	3	62	1	24	1	NA	NA	91
Number of Retail Customers .....	47,050	2,162,982	38	925,683	1	NA	NA	3,135,754
Retail Sales (thousand megawatthours).....	2,166	65,803	6,015	20,559	108	NA	NA	94,650
Percentage of Retail Sales .....	2.29	69.52	6.36	21.72	0.11	--	--	100.00
Revenue from Retail Sales (million dollars) .....	144	5,821	302	1,950	6	NA	NA	8,223
Percentage of Revenue .....	1.75	70.79	3.67	23.71	0.07	--	--	100.00
Average Retail Price (cents/kWh).....	6.63	8.85	5.02	9.48	5.72	NA	NA	8.69

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Tennessee</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	89,683	88,678	94,372	93,942	90,960	92,475	88,263	77,433
Independent Power Producers .....	212	55	29	39	119	123	78	80
Combined Heat and Power, Electric .....	*	-	-	-	-	-	-	-
<b>Electric Power Sector Generation Subtotal</b> .....	<b>89,895</b>	<b>88,734</b>	<b>94,401</b>	<b>93,981</b>	<b>91,079</b>	<b>92,597</b>	<b>88,341</b>	<b>77,513</b>
Combined Heat and Power, Commercial .....	136	112	111	101	108	121	82	117
Combined Heat and Power, Industrial .....	3,289	3,376	3,083	3,035	2,724	2,395	2,240	2,087
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>3,426</b>	<b>3,488</b>	<b>3,194</b>	<b>3,136</b>	<b>2,832</b>	<b>2,516</b>	<b>2,323</b>	<b>2,204</b>
<b>Total Net Generation</b> .....	<b>93,320</b>	<b>92,222</b>	<b>97,595</b>	<b>97,117</b>	<b>93,911</b>	<b>95,113</b>	<b>90,663</b>	<b>79,717</b>
<b>Total International Imports</b> .....	-	*	*	-	-	-	-	-
<b>Total Supply</b> .....	<b>93,320</b>	<b>92,222</b>	<b>97,595</b>	<b>97,117</b>	<b>93,911</b>	<b>95,113</b>	<b>90,663</b>	<b>79,717</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	93,180	96,384	99,661	102,292	102,737	106,001	104,053	94,543
Facility Direct Retail Sales <sup>1</sup> .....	-	1,072	-	1,614	1,194	716	117	108
<b>Total Electric Industry Retail Sales</b> .....	<b>93,180</b>	<b>97,456</b>	<b>99,661</b>	<b>103,905</b>	<b>103,932</b>	<b>106,717</b>	<b>104,170</b>	<b>94,650</b>
<b>Direct Use</b> .....	<b>3,382</b>	<b>3,389</b>	<b>3,393</b>	<b>1,809</b>	<b>2,376</b>	<b>2,620<sup>R</sup></b>	<b>2,472</b>	<b>2,267</b>
<b>Estimated Losses</b> .....	<b>6,754</b>	<b>3,986</b>	<b>4,884</b>	<b>6,028<sup>R</sup></b>	<b>5,415</b>	<b>6,746<sup>R</sup></b>	<b>5,695<sup>R</sup></b>	<b>4,870</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-9,997</b>	<b>-12,609</b>	<b>-10,343</b>	<b>-14,625<sup>R</sup></b>	<b>-17,812</b>	<b>-20,970<sup>R</sup></b>	<b>-21,673<sup>R</sup></b>	<b>-22,070</b>
<b>Total Disposition</b> .....	<b>93,320<sup>R</sup></b>	<b>92,222<sup>R</sup></b>	<b>97,595<sup>R</sup></b>	<b>97,117<sup>R</sup></b>	<b>93,911<sup>R</sup></b>	<b>95,113<sup>R</sup></b>	<b>90,663<sup>R</sup></b>	<b>79,717</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.90</b>	<b>0.88</b>	<b>0.90</b>	<b>0.87</b>	<b>0.84</b>	<b>0.82</b>	<b>0.81<sup>R</sup></b>	<b>0.78</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Texas</b>		
NERC Region(s).....		SERC/SPP/TRE/WECC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	103,037	1
Electric Utilities.....	25,140	6
Independent Power Producers & Combined Heat and Power.....	77,898	1
Net Generation (megawatthours).....	397,167,910	1
Electric Utilities.....	90,418,339	9
Independent Power Producers & Combined Heat and Power.....	306,749,570	1
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	419	3
Nitrogen Oxide .....	199	1
Carbon Dioxide.....	242,864	1
Sulfur Dioxide (lbs/MWh) .....	2.3	30
Nitrogen Oxide (lbs/MWh) .....	1.1	33
Carbon Dioxide (lbs/MWh).....	1,348	23
Total Retail Sales (megawatthours).....	345,295,561	1
Full Service Provider Sales (megawatthours) .....	345,295,561	1
Direct Use (megawatthours) .....	32,232,087	1
Average Retail Price (cents/kWh).....	9.86	17

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Texas</b>			
1. W A Parish.....	Coal	NRG Texas Power LLC	3,664
2. South Texas Project.....	Nuclear	STP Nuclear Operating Co	2,560
3. Martin Lake .....	Coal	TXU Generation Co LP	2,418
4. Comanche Peak .....	Nuclear	TXU Generation Co LP	2,367
5. Monticello.....	Coal	TXU Generation Co LP	1,931
6. Sabine .....	Gas	Entergy Texas Inc.	1,814
7. Limestone .....	Coal	NRG Texas Power LLC	1,689
8. Fayette Power Project.....	Coal	Lower Colorado River Authority	1,641
9. Forney Energy Center.....	Gas	FPLE Forney LP	1,640
10. Welsh.....	Coal	Southwestern Electric Power Co	1,584

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Texas</b>						
1. TXU Energy Retail Co LP .....	Investor-Owned	49,848,002	28,182,679	7,746,589	13,918,734	-
2. Reliant Energy Retail Services LLC .....	Investor-Owned	47,417,620	19,188,402	3,990,467	24,238,751	-
3. San Antonio City of.....	Public	20,026,721	9,058,575	9,957,933	1,010,213	-
4. Entergy Texas Inc.....	Investor-Owned	15,445,660	5,453,374	4,421,978	5,570,308	-
5. Southwestern Public Service Co .....	Investor-Owned	13,936,372	2,508,966	3,920,430	7,506,976	-
Total Sales, Top Five Providers .....		146,674,375	64,391,996	30,037,397	52,244,982	-
Percent of Total State Sales .....		42	50	25	54	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Texas</b>										
<b>Electric Utilities.....</b>	<b>65,293</b>	<b>22,629</b>	<b>22,897</b>	<b>24,033</b>	<b>24,991</b>	<b>24,569</b>	<b>25,005</b>	<b>25,140</b>	<b>85.9</b>	<b>24.4</b>
Coal.....	19,875	8,189	8,320	8,984	8,889	8,904	8,978	9,024	26.1	8.8
Petroleum.....	38	5	13	13	13	13	15	15	*	*
Natural Gas.....	39,874	13,729	13,889	14,329	15,271	14,841	15,307	15,379	52.4	14.9
Other Gases <sup>1</sup> .....	-	-	-	-	104	104	-	-	-	-
Nuclear.....	4,800	-	-	-	-	-	-	-	6.3	-
Hydroelectric.....	691	692	661	666	674	666	665	682	0.9	0.7
Other Renewables <sup>2</sup> .....	1	1	1	1	1	1	1	1	*	*
Other <sup>3</sup> .....	13	13	13	39	39	39	39	39	*	*
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>10,761</b>	<b>76,964</b>	<b>78,207</b>	<b>77,013</b>	<b>75,763</b>	<b>77,369</b>	<b>79,960</b>	<b>77,898</b>	<b>14.1</b>	<b>75.6</b>
Coal.....	338	11,864	11,881	11,204	10,954	10,913	11,211	11,223	0.4	10.9
Petroleum.....	266	785	217	209	207	203	203	206	0.4	0.2
Natural Gas.....	9,455	57,730	59,327	58,397	56,467	56,311	55,549	51,517	12.4	50.0
Other Gases <sup>1</sup> .....	129	289	359	237	183	204	187	184	0.2	0.2
Nuclear.....	-	4,768	4,860	4,860	4,860	4,860	4,927	4,927	-	4.8
Hydroelectric.....	2	7	7	7	7	7	7	7	*	*
Other Renewables <sup>2</sup> .....	322	1,432	1,431	1,940	2,924	4,710	7,706	9,664	0.4	9.4
Other <sup>3</sup> .....	249	89	123	160	161	160	170	170	0.3	0.2
<b>Total Electric Industry.....</b>	<b>76,054</b>	<b>99,594</b>	<b>101,104</b>	<b>101,046</b>	<b>100,754</b>	<b>101,938</b>	<b>104,966</b>	<b>103,037</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	20,213	20,053	20,201	20,188	19,843	19,817	20,189	20,247	26.6	19.7
Petroleum.....	304	790	231	222	220	216	218	221	0.4	0.2
Natural Gas.....	49,329	71,459	73,216	72,726	71,737	71,152	70,856	66,896	64.9	64.9
Other Gases <sup>1</sup> .....	129	289	359	237	287	308	187	184	0.2	0.2
Nuclear.....	4,800	4,768	4,860	4,860	4,860	4,860	4,927	4,927	6.3	4.8
Hydroelectric.....	693	699	668	673	681	673	673	689	0.9	0.7
Other Renewables <sup>2</sup> .....	323	1,434	1,433	1,941	2,925	4,712	7,708	9,665	0.4	9.4
Other <sup>3</sup> .....	262	102	136	199	200	199	209	209	0.3	0.2

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Texas</b>										
<b>Electric Utilities.....</b>	<b>292,458,336</b>	<b>86,882,044</b>	<b>92,054,150</b>	<b>95,187,030</b>	<b>94,637,956</b>	<b>97,259,636</b>	<b>94,637,160</b>	<b>90,418,339</b>	<b>81.5</b>	<b>22.8</b>
Coal.....	138,077,181	60,288,940	63,893,450	61,275,542	59,478,349	61,656,860	62,262,810	57,685,903	38.5	14.5
Petroleum.....	146,226	257,818	67,624	68,365	72,613	62,424	25,575	26,061	*	*
Natural Gas.....	116,358,063	25,473,500	26,726,978	32,324,018	34,131,142	33,699,541	31,102,952	31,718,223	32.4	8.0
Nuclear.....	36,759,899	-	-	-	-	-	-	-	10.2	-
Hydroelectric.....	1,116,881	858,933	1,266,098	1,288,469	611,491	1,593,542	989,185	983,369	0.3	0.2
Other Renewables <sup>1</sup> .....	86	2,852	2,454	1,056	393	736	1,279	999	*	*
Other <sup>2</sup> .....	-	-	97,546	229,580	343,968	246,533	255,358	3,784	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>66,486,408</b>	<b>292,317,641</b>	<b>298,244,982</b>	<b>301,481,692</b>	<b>305,944,922</b>	<b>308,232,660</b>	<b>310,150,621</b>	<b>306,749,570</b>	<b>18.5</b>	<b>77.2</b>
Coal.....	2,787,718	86,700,570	84,991,205	87,082,481	86,912,992	85,622,029	84,869,030	81,420,694	0.8	20.5
Petroleum.....	1,604,693	2,257,437	1,661,282	1,514,330	1,716,570	1,246,479	1,007,944	1,378,545	0.4	0.3
Natural Gas.....	55,702,710	159,437,850	162,027,685	165,341,240	163,739,091	165,831,740	162,144,126	157,348,260	15.5	39.6
Other Gases <sup>3</sup> .....	3,971,925	5,999,489	4,203,684	3,271,768	3,798,403	3,601,211	3,400,506	3,649,305	1.1	0.9
Nuclear.....	-	33,437,484	40,435,372	38,232,493	41,264,278	40,955,030	40,727,370	41,497,617	-	10.4
Hydroelectric.....	3,325	37,606	34,511	44,091	50,480	50,895	50,282	45,288	*	*
Other Renewables <sup>1</sup> .....	1,520,961	3,962,885	4,244,234	5,334,556	7,817,867	10,286,876	17,637,815	21,103,477	0.4	5.3
Other <sup>2</sup> .....	895,076	484,320	647,010	660,733	645,240	638,399	313,547	306,385	0.2	0.1
<b>Total Electric Industry.....</b>	<b>358,944,744</b>	<b>379,199,685</b>	<b>390,299,132</b>	<b>396,668,722</b>	<b>400,582,878</b>	<b>405,492,296</b>	<b>404,787,781</b>	<b>397,167,910</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	140,864,899	146,989,510	148,884,655	148,358,023	146,391,341	147,278,889	147,131,841	139,106,597	39.2	35.0
Petroleum.....	1,750,919	2,515,255	1,728,906	1,582,695	1,789,183	1,308,904	1,033,520	1,404,606	0.5	0.4
Natural Gas.....	172,060,773	184,911,350	188,754,663	197,665,258	197,870,233	199,531,281	193,247,078	189,066,483	47.9	47.6
Other Gases <sup>3</sup> .....	3,971,925	5,999,489	4,203,684	3,271,768	3,798,403	3,601,211	3,400,506	3,649,305	1.1	0.9
Nuclear.....	36,759,899	33,437,484	40,435,372	38,232,493	41,264,278	40,955,030	40,727,370	41,497,617	10.2	10.4
Hydroelectric.....	1,120,206	896,539	1,300,609	1,332,560	661,971	1,644,437	1,039,467	1,028,657	0.3	0.3
Other Renewables <sup>1</sup> .....	1,521,047	3,965,737	4,246,688	5,335,612	7,818,260	10,287,612	17,639,094	21,104,476	0.4	5.3
Other <sup>2</sup> .....	895,076	484,320	744,556	890,313	989,208	884,932	568,905	310,169	0.2	0.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

<sup>3</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Texas</b>								
Coal (cents per million Btu) .....	120	125	131	129	W	W	162	W
Average heat value (Btu per pound).....	7,506	7,605	7,641	7,611	7,665	7,681	7,759	7,787
Average sulfur Content (percent).....	0.65	0.78	0.77	0.74	0.67	0.60	0.56	0.61
Petroleum (cents per million Btu) <sup>1</sup> .....	96	423	171	248	W	240	312	213
Average heat value (Btu per gallon).....	80,493	139,979	137,700	137,955	137,876	136,814	136,638	136,569
Average sulfur Content (percent).....	3.94	1.40	3.32	3.64	3.64	3.68	3.85	3.52
Natural Gas (cents per million Btu).....	246	528	577	783	645	664	876	392
Average heat value (Btu per cubic foot).....	1,021	1,029	1,026	1,029	1,025	1,023	1,023	1,021

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Texas</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	654	573	531	537	523	449	436	406
Petroleum.....	55	22	21	6	29	13	7	6
Natural Gas.....	*	1	1	1	1	1	1	1
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	12	18	21	5	6	6	13	6
Other <sup>2</sup> .....	*	*	-	*	*	*	-	*
Total.....	722	614	574	549	558	468	457	419
<b>Nitrogen Oxide .....</b>								
Coal.....	237	146	132	126	120	113	112	101
Petroleum.....	24	5	7	5	8	3	1	1
Natural Gas.....	237	131	117	104	109	105	86	84
Other Gases.....	5	18	9	7	14	14	6	5
Other Renewables <sup>1</sup> .....	5	8	9	5	6	8	9	7
Other <sup>2</sup> .....	3	*	*	*	3	4	-	*
Total.....	510	308	273	247	260	247	215	199
<b>Carbon Dioxide .....</b>								
Coal.....	146,105 <sup>R</sup>	151,802 <sup>R</sup>	154,377 <sup>R</sup>	154,479 <sup>R</sup>	152,699 <sup>R</sup>	152,637 <sup>R</sup>	152,418 <sup>R</sup>	144,008
Petroleum.....	2,327	2,918	2,732	2,197	2,898	1,815	1,381	1,776
Natural Gas.....	106,553	102,960	102,306	104,656	104,617	103,317	98,911	97,075
Other <sup>2</sup> .....	-	-	-	-	-	-	-	5
Total.....	254,985 <sup>R</sup>	257,681 <sup>R</sup>	259,415 <sup>R</sup>	261,332 <sup>R</sup>	260,214 <sup>R</sup>	257,769 <sup>R</sup>	252,710 <sup>R</sup>	242,864

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Texas</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	108,591	121,355	120,330	126,562	126,843	124,921	127,712	129,797	36.0	37.6
Commercial .....	79,388	96,694	99,616	110,784	111,130	110,540	113,473	118,497	26.3	34.3
Industrial .....	99,741	104,547	100,588	96,841	104,689	108,300	105,806	96,931	33.0	28.1
Other .....	14,124	NA	NA	NA	NA	NA	NA	NA	4.7	--
Transportation.....	NA	90	81	71	62	67	69	71	--	*
All Sectors .....	301,844	322,686	320,615	334,258	342,724	343,829	347,059	345,296	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	8,201	11,111	11,707	13,832	16,307	15,419	16,649	16,072	45.0	47.2
Commercial .....	5,179	7,581	7,867	9,810	10,951	10,910	12,193	11,444	28.4	33.6
Industrial.....	3,964	5,512	5,902	6,916	8,185	8,439	9,301	6,534	21.7	19.2
Other.....	899	NA	NA	NA	NA	NA	NA	NA	4.9	--
Transportation.....	NA	6	6	6	5	6	6	7	--	*
All Sectors .....	18,243	24,211	25,482	30,564	35,448	34,773	38,150	34,056	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.55	9.16	9.73	10.93	12.86	12.34	13.04	12.38	--	--
Commercial .....	6.52	7.84	7.90	8.85	9.85	9.87	10.75	9.66	--	--
Industrial.....	3.97	5.27	5.87	7.14	7.82	7.79	8.79	6.74	--	--
Other.....	6.36	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	6.62	7.02	8.45	8.42	8.40	8.64	9.83	--	--
All Sectors .....	6.04	7.50	7.95	9.14	10.34	10.11	10.99	9.86	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Texas</b>								
Number of Entities.....	77	72	NA	67	11	NA	7	234
Number of Retail Customers .....	7,461,819	1,698,112	NA	1,896,166	11	NA	-	11,056,108
Retail Sales (thousand megawatthours).....	251,203	47,127	NA	40,348	6,617	NA	-	345,296
Percentage of Retail Sales .....	72.75	13.65	--	11.69	1.92	--	-	100.00
Revenue from Retail Sales (million dollars) .....	25,486	4,072	NA	4,087	411	NA	-	34,056
Percentage of Revenue .....	74.84	11.96	--	12.00	1.21	--	-	100.00
Average Retail Price (cents/kWh).....	10.15	8.64	NA	10.13	6.20	NA	NA	9.86

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

- (dash) = Data not available.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Texas</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	292,458	86,882	92,054	95,187	94,638	97,260	94,637	90,418
Independent Power Producers .....	1,072	197,114	205,978	216,933	224,749	224,719	229,159	227,007
Combined Heat and Power, Electric .....	25,590	55,432	49,841	44,759	41,286	46,010	45,785	44,780
<b>Electric Power Sector Generation Subtotal</b> .....	<b>319,120</b>	<b>339,428</b>	<b>347,872</b>	<b>356,879</b>	<b>360,674</b>	<b>367,989</b>	<b>369,581</b>	<b>362,206</b>
Combined Heat and Power, Commercial .....	503	495	476	508	521	476	467	468
Combined Heat and Power, Industrial.....	39,321	39,277	41,951	39,282	39,388	37,028	34,740	34,494
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>39,825</b>	<b>39,772</b>	<b>42,427</b>	<b>39,790</b>	<b>39,909</b>	<b>37,503</b>	<b>35,206</b>	<b>34,962</b>
<b>Total Net Generation</b> .....	<b>358,945</b>	<b>379,200</b>	<b>390,299</b>	<b>396,669</b>	<b>400,583</b>	<b>405,492</b>	<b>404,788</b>	<b>397,168</b>
<b>Total International Imports</b> .....	<b>204</b>	<b>80</b>	<b>79</b>	<b>78</b>	<b>80</b>	<b>160</b>	<b>961</b>	<b>447</b>
<b>Total Supply</b> .....	<b>359,149</b>	<b>379,279</b>	<b>390,378</b>	<b>396,747</b>	<b>400,662</b>	<b>405,653</b>	<b>405,749</b>	<b>397,615</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	301,844	312,902	318,116	330,118	338,259	335,439	340,533	338,678
Facility Direct Retail Sales <sup>1</sup> .....	-	9,784	2,499	4,141	4,465	8,389	6,526	6,617
<b>Total Electric Industry Retail Sales</b> .....	<b>301,844</b>	<b>322,686</b>	<b>320,615</b>	<b>334,258</b>	<b>342,724</b>	<b>343,829</b>	<b>347,059</b>	<b>345,296</b>
<b>Direct Use</b> .....	<b>42,988</b>	<b>41,706</b>	<b>41,749</b>	<b>45,497</b>	<b>33,122</b>	<b>29,111<sup>R</sup></b>	<b>28,558<sup>R</sup></b>	<b>32,232</b>
<b>Total International Exports</b> .....	<b>20</b>	<b>297</b>	<b>295</b>	<b>294<sup>R</sup></b>	<b>292</b>	<b>402</b>	<b>1,013</b>	<b>337</b>
<b>Estimated Losses</b> .....	<b>21,880</b>	<b>15,303<sup>R</sup></b>	<b>20,136</b>	<b>14,503<sup>R</sup></b>	<b>17,368</b>	<b>21,298<sup>R</sup></b>	<b>27,226<sup>R</sup></b>	<b>22,207</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-7,583</b>	<b>-712</b>	<b>7,583</b>	<b>2,193<sup>R</sup></b>	<b>7,157</b>	<b>11,013<sup>R</sup></b>	<b>1,893<sup>R</sup></b>	<b>-2,456</b>
<b>Total Disposition</b> .....	<b>359,149<sup>R</sup></b>	<b>379,279<sup>R</sup></b>	<b>390,378<sup>R</sup></b>	<b>396,747<sup>R</sup></b>	<b>400,662<sup>R</sup></b>	<b>405,653<sup>R</sup></b>	<b>405,749<sup>R</sup></b>	<b>397,615</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.98</b>	<b>1.00</b>	<b>1.02</b>	<b>1.01</b>	<b>1.02</b>	<b>1.03<sup>R</sup></b>	<b>1.00</b>	<b>0.99</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Utah</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	7,418	39
Electric Utilities.....	6,581	32
Independent Power Producers & Combined Heat and Power.....	838	43
Net Generation (megawatthours).....	43,542,946	34
Electric Utilities.....	40,991,819	27
Independent Power Producers & Combined Heat and Power.....	2,551,126	43
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	30	35
Nitrogen Oxide.....	68	13
Carbon Dioxide.....	36,518	25
Sulfur Dioxide (lbs/MWh) .....	1.5	38
Nitrogen Oxide (lbs/MWh) .....	3.5	5
Carbon Dioxide (lbs/MWh).....	1,849	11
Total Retail Sales (megawatthours).....	27,586,700	37
Full Service Provider Sales (megawatthours) .....	27,586,700	36
Direct Use (megawatthours) .....	1,092,589	22
Average Retail Price (cents/kWh).....	6.77	45

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Utah</b>			
1. Intermountain Power Project.....	Coal	Los Angeles City of	1,800
2. Hunter .....	Coal	PacifiCorp	1,320
3. Huntington .....	Coal	PacifiCorp	895
4. Lake Side Power Plant.....	Gas	PacifiCorp	557
5. Currant Creek .....	Gas	PacifiCorp	540
6. Bonanza .....	Coal	Deseret Generation & Tran Coop	458
7. Gadsby.....	Gas	PacifiCorp	348
8. KUCC .....	Coal	Kennecott Utah Copper Corporation	207
9. Milford Wind Corridor I LLC.....	Other Renewables	Milford Wind Corridor Phase I LLC	204
10. West Valley Generation Project.....	Gas	CER Generation LLC	189

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. PacifiCorp.....	Investor-Owned	22,097,825	6,495,687	7,971,632	7,598,164	32,342
2. Provo City Corp.....	Public	761,759	238,205	390,489	133,065	-
3. City of St George.....	Public	595,622	265,162	106,452	224,008	-
4. City of Murray.....	Public	423,943	116,691	258,739	48,513	-
5. City of Logan.....	Public	397,961	96,476	168,188	133,297	-
Total Sales, Top Five Providers .....		24,277,110	7,212,221	8,895,500	8,137,047	32,342
Percent of Total State Sales .....		88	83	87	95	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Utah</b>										
<b>Electric Utilities.....</b>	<b>5,102</b>	<b>5,574</b>	<b>5,754</b>	<b>6,053</b>	<b>6,212</b>	<b>6,710</b>	<b>6,499</b>	<b>6,581</b>	<b>97.5</b>	<b>88.7</b>
Coal.....	4,463	4,461	4,645	4,645	4,645	4,645	4,645	4,645	85.3	62.6
Petroleum.....	44	46	38	35	35	25	25	25	0.8	0.3
Natural Gas.....	296	782	796	1,098	1,257	1,755	1,542	1,624	5.7	21.9
Hydroelectric.....	265	252	252	253	253	253	253	253	5.1	3.4
Other Renewables <sup>1</sup> .....	35	33	23	23	23	33	34	34	0.7	0.5
Pumped Storage.....	*	-	-	-	-	-	-	-	*	-
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>131</b>	<b>223</b>	<b>436</b>	<b>475</b>	<b>500</b>	<b>412</b>	<b>633</b>	<b>838</b>	<b>2.5</b>	<b>11.3</b>
Coal.....	54	144	181	246	246	226	226	226	1.0	3.0
Petroleum.....	19	3	-	-	-	-	-	-	0.4	-
Natural Gas.....	4	72	195	225	215	179	381	378	0.1	5.1
Other Gases <sup>2</sup> .....	48	-	-	-	-	-	-	-	0.9	-
Hydroelectric.....	4	2	2	2	2	2	2	2	0.1	*
Other Renewables <sup>1</sup> .....	1	1	1	1	4	5	23	231	*	3.1
Other <sup>3</sup> .....	-	-	57	-	32	-	-	-	-	-
<b>Total Electric Industry.....</b>	<b>5,233</b>	<b>5,797</b>	<b>6,190</b>	<b>6,528</b>	<b>6,712</b>	<b>7,122</b>	<b>7,132</b>	<b>7,418</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,517	4,606	4,826	4,891	4,891	4,871	4,871	4,871	86.3	65.7
Petroleum.....	63	49	38	35	35	25	25	25	1.2	0.3
Natural Gas.....	300	854	991	1,323	1,473	1,934	1,923	2,002	5.7	27.0
Other Gases <sup>2</sup> .....	48	-	-	-	-	-	-	-	0.9	-
Hydroelectric.....	269	254	254	255	255	255	256	256	5.1	3.4
Other Renewables <sup>1</sup> .....	36	34	24	24	27	38	57	265	0.7	3.6
Pumped Storage.....	*	-	-	-	-	-	-	-	*	-
Other <sup>3</sup> .....	-	-	57	-	32	-	-	-	-	-

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Utah</b>										
<b>Electric Utilities.....</b>	<b>36,071,421</b>	<b>37,544,892</b>	<b>37,165,917</b>	<b>36,695,193</b>	<b>39,590,509</b>	<b>43,319,965</b>	<b>44,424,071</b>	<b>40,991,819</b>	<b>98.1</b>	<b>94.1</b>
Coal.....	34,125,014	35,579,158	35,634,374	34,824,862	35,667,551	35,910,192	36,761,964	34,284,061	92.8	78.7
Petroleum.....	29,023	31,386	32,567	40,245	29,619	38,828	43,612	36,057	0.1	0.1
Natural Gas.....	515,127	1,322,984	864,181	874,505	2,965,072	6,673,998	6,705,185	5,565,584	1.4	12.8
Hydroelectric.....	1,246,727	412,899	439,919	770,779	737,659	533,021	659,033	826,996	3.4	1.9
Other Renewables <sup>1</sup> .....	155,530	198,465	194,876	184,802	190,608	163,925	254,277	279,121	0.4	0.6
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>713,207</b>	<b>478,774</b>	<b>1,046,060</b>	<b>1,469,938</b>	<b>1,672,815</b>	<b>2,052,610</b>	<b>2,154,691</b>	<b>2,551,126</b>	<b>1.9</b>	<b>5.9</b>
Coal.....	408,767	399,490	983,480	1,145,543	1,187,999	1,260,602	1,258,402	1,242,065	1.1	2.9
Petroleum.....	1,641	1,480	34	664	32,507	319	-	-	*	-
Natural Gas.....	94,930	60,123	45,669	302,996	423,478	750,220	661,122	878,458	0.3	2.0
Other Gases <sup>2</sup> .....	191,285	-	-	-	-	-	35,788	27,933	0.5	0.1
Hydroelectric.....	8,415	8,440	9,929	13,684	9,124	5,761	9,051	8,261	*	*
Other Renewables <sup>1</sup> .....	8,169	5,083	3,821	3,948	14,868	31,030	47,585	207,415	*	0.5
Other <sup>3</sup> .....	-	4,158	3,126	3,102	4,838	4,679	142,743	186,994	-	0.4
<b>Total Electric Industry.....</b>	<b>36,784,628</b>	<b>38,023,666</b>	<b>38,211,977</b>	<b>38,165,131</b>	<b>41,263,324</b>	<b>45,372,575</b>	<b>46,578,763</b>	<b>43,542,946</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	34,533,781	35,978,648	36,617,854	35,970,405	36,855,550	37,170,794	38,020,367	35,526,126	93.9	81.6
Petroleum.....	30,664	32,866	32,601	40,909	62,126	39,147	43,612	36,057	0.1	0.1
Natural Gas.....	610,057	1,383,107	909,850	1,177,501	3,388,550	7,424,218	7,366,307	6,444,042	1.7	14.8
Other Gases <sup>2</sup> .....	191,285	-	-	-	-	-	35,788	27,933	0.5	0.1
Hydroelectric.....	1,255,142	421,339	449,848	784,463	746,783	538,782	668,084	835,257	3.4	1.9
Other Renewables <sup>1</sup> .....	163,699	203,548	198,697	188,750	205,476	194,955	301,862	486,536	0.4	1.1
Other <sup>3</sup> .....	-	4,158	3,126	3,102	4,838	4,679	142,743	186,994	-	0.4

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Utah</b>								
Coal (cents per million Btu) .....	103	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	11,620	11,025	10,718	10,786	10,981	11,156	11,060	10,965
Average sulfur Content (percent).....	0.46	0.55	0.52	0.52	0.58	0.58	0.53	0.56
Petroleum (cents per million Btu) <sup>1</sup> .....	298	722	924	1,291	1,525	1,753	2,217	1,413
Average heat value (Btu per gallon).....	104,081	139,493	139,512	139,752	139,660	139,376	138,979	139,467
Average sulfur Content (percent).....	3.09	0.23	0.23	0.26	0.25	0.25	0.30	0.31
Natural Gas (cents per million Btu).....	254	W	W	W	W	W	W	366
Average heat value (Btu per cubic foot).....	1,043	1,062	1,049	1,047	1,052	1,051	1,036	1,043

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Utah</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	28	32	34	31	34	25	22	30
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	-	-	-	-	-	-	-
Other <sup>1</sup> .....	*	*	*	*	*	*	*	*
Total.....	28	32	34	31	34	25	22	30
<b>Nitrogen Oxide .....</b>								
Coal.....	67	64	65	62	68	67	62	66
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	3	2	1	1	1	3	2	1
Other Gases.....	*	-	-	-	-	-	-	*
Other Renewables <sup>2</sup> .....	_R	_R	_R	_R	*	*	*	*
Other <sup>1</sup> .....	*	*	*	*	-	*	*	*
Total.....	70	66	66	64	69	70	65	68
<b>Carbon Dioxide .....</b>								
Coal.....	32,081 <sup>R</sup>	33,904 <sup>R</sup>	34,906 <sup>R</sup>	35,528 <sup>R</sup>	35,106 <sup>R</sup>	35,503 <sup>R</sup>	36,106 <sup>R</sup>	33,576
Petroleum.....	24	26	26	31	56	31	33	27
Natural Gas.....	462	784	528	701	1,631	3,321	3,182	2,855
Geothermal.....	4	5	5	5	5	4	7	7
Other <sup>1</sup> .....	57 <sup>R</sup>	54	57	58	56	46	54	52
Total.....	32,627 <sup>R</sup>	34,773 <sup>R</sup>	35,522 <sup>R</sup>	36,324 <sup>R</sup>	36,853 <sup>R</sup>	38,906 <sup>R</sup>	39,381 <sup>R</sup>	36,518

<sup>1</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Utah</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	6,236	7,166	7,325	7,567	8,232	8,752	8,786	8,725	28.5	31.6
Commercial .....	7,282	9,024	9,345	9,417	9,749	10,241	10,286	10,235	33.3	37.1
Industrial .....	7,568	7,646	7,816	7,989	8,356	8,759	9,086	8,594	34.6	31.2
Other .....	792	NA	NA	NA	NA	NA	NA	NA	3.6	--
Transportation.....	NA	25	25	28	29	34	33	32	--	0.1
All Sectors .....	21,879	23,860	24,512	25,000	26,366	27,785	28,192	27,587	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	391	494	528	569	625	714	725	740	36.8	39.6
Commercial .....	385	504	551	571	599	669	686	712	36.2	38.1
Industrial.....	254	290	314	339	352	396	417	414	23.9	22.1
Other.....	33	NA	NA	NA	NA	NA	NA	NA	3.1	--
Transportation.....	NA	1	2	2	2	3	3	3	--	0.1
All Sectors .....	1,064	1,290	1,395	1,481	1,578	1,782	1,830	1,868	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.27	6.90	7.21	7.52	7.59	8.15	8.26	8.48	--	--
Commercial .....	5.29	5.59	5.90	6.07	6.15	6.54	6.66	6.96	--	--
Industrial.....	3.36	3.79	4.01	4.24	4.21	4.52	4.59	4.81	--	--
Other.....	4.21	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	6.01	6.57	7.20	7.19	7.44	7.85	8.31	--	--
All Sectors .....	4.86	5.41	5.69	5.92	5.99	6.41	6.49	6.77	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	1	40	1	9	NA	NA	NA	51
Number of Retail Customers .....	787,551	228,120	10	43,729	NA	NA	NA	1,059,410
Retail Sales (thousand megawatthours).....	22,098	4,373	61	1,055	NA	NA	NA	27,587
Percentage of Retail Sales .....	80.10	15.85	0.22	3.82	--	--	--	100.00
Revenue from Retail Sales (million dollars) .....	1,453	343	2	71	NA	NA	NA	1,868
Percentage of Revenue .....	77.76	18.37	0.09	3.77	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.57	7.85	2.75	6.69	NA	NA	NA	6.77

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Utah</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	36,071	37,545	37,166	36,695	39,591	43,320	44,424	40,992
Independent Power Producers .....	409	447	406	706	829	1,096	976	1,325
Combined Heat and Power, Electric .....	8	9	7	7	11	11	-2	10
<b>Electric Power Sector Generation Subtotal</b> .....	<b>36,488</b>	<b>38,002</b>	<b>37,579</b>	<b>37,408</b>	<b>40,430</b>	<b>44,427</b>	<b>45,398</b>	<b>42,327</b>
Combined Heat and Power, Commercial .....	26	22	21	20	28	45	6	3
Combined Heat and Power, Industrial.....	270	-	612	737	805	901	1,175	1,213
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>296</b>	<b>22</b>	<b>633</b>	<b>757</b>	<b>833</b>	<b>946</b>	<b>1,180</b>	<b>1,216</b>
<b>Total Net Generation</b> .....	<b>36,785</b>	<b>38,024</b>	<b>38,212</b>	<b>38,165</b>	<b>41,263</b>	<b>45,373</b>	<b>46,579</b>	<b>43,543</b>
<b>Total International Imports</b> .....	-	6	15	41	15	22	12	8
<b>Total Supply</b> .....	<b>36,785</b>	<b>38,029</b>	<b>38,227</b>	<b>38,206</b>	<b>41,279</b>	<b>45,394</b>	<b>46,591</b>	<b>43,551</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	21,879	23,860	24,512	25,000	26,366	27,785	28,192	27,587
<b>Total Electric Industry Retail Sales</b> .....	<b>21,879</b>	<b>23,860</b>	<b>24,512</b>	<b>25,000</b>	<b>26,366</b>	<b>27,785</b>	<b>28,192</b>	<b>27,587</b>
<b>Direct Use</b> .....	<b>327</b>	<b>360</b>	<b>361</b>	<b>742</b>	<b>967</b>	<b>73<sup>R</sup></b>	<b>17<sup>R</sup></b>	<b>1,093</b>
<b>Total International Exports</b> .....	-	-	-	1	1	38	55	43
<b>Estimated Losses</b> .....	<b>1,586</b>	<b>1,522</b>	<b>1,861</b>	<b>2,135</b>	<b>2,323</b>	<b>2,680<sup>R</sup></b>	<b>2,627<sup>R</sup></b>	<b>2,322</b>
<b>Net Interstate Trade</b> <sup>1</sup> .....	<b>12,992</b>	<b>12,286</b>	<b>11,494</b>	<b>10,328</b>	<b>11,622</b>	<b>14,819<sup>R</sup></b>	<b>15,702<sup>R</sup></b>	<b>12,506</b>
<b>Total Disposition</b> .....	<b>36,785<sup>R</sup></b>	<b>38,029<sup>R</sup></b>	<b>38,227<sup>R</sup></b>	<b>38,206<sup>R</sup></b>	<b>41,279<sup>R</sup></b>	<b>45,394<sup>R</sup></b>	<b>46,591<sup>R</sup></b>	<b>43,551</b>
<b>Net Trade Index (ratio)</b> <sup>2</sup> .....	<b>1.55</b>	<b>1.48</b>	<b>1.43</b>	<b>1.37</b>	<b>1.39</b>	<b>1.48<sup>R</sup></b>	<b>1.51<sup>R</sup></b>	<b>1.40</b>

<sup>1</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>2</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Vermont</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	1,126	50
Electric Utilities.....	257	45
Independent Power Producers & Combined Heat and Power.....	869	41
Net Generation (megawatthours).....	7,282,348	48
Electric Utilities.....	711,507	43
Independent Power Producers & Combined Heat and Power.....	6,570,841	34
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	*	51
Nitrogen Oxide .....	1	50
Carbon Dioxide.....	7	51
Sulfur Dioxide (lbs/MWh) .....	*	51
Nitrogen Oxide (lbs/MWh) .....	0.2	51
Carbon Dioxide (lbs/MWh).....	2	51
Total Retail Sales (megawatthours).....	5,496,513	51
Full Service Provider Sales (megawatthours) .....	5,496,513	49
Direct Use (megawatthours) .....	1,287	48
Average Retail Price (cents/kWh).....	12.75	13

MWh = Megawatthours.

kWh = Kilowatthours.

\* = 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 \*).

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Vermont</b>			
1. Vermont Yankee.....	Nuclear	Entergy Nuclear Vermont Yankee	620
2. J C McNeil.....	Other Renewables	City of Burlington-Electric	52
3. Bellows Falls .....	Hydroelectric	TransCanada Hydro Northeast Inc.,	48
4. Wilder .....	Hydroelectric	TransCanada Hydro Northeast Inc.,	41
5. Harriman .....	Hydroelectric	TransCanada Hydro Northeast Inc.,	41
6. Berlin 5 .....	Petroleum	Green Mountain Power Corp	35
7. Vernon .....	Hydroelectric	TransCanada Hydro Northeast Inc.,	34
8. Sheldon Springs Hydroelectric.....	Hydroelectric	Sheldon Vermont Hydro Co., Inc.	24
9. Ryegate Power Station.....	Other Renewables	SUEZ Energy Generation NA Inc	20
10. Burlington GT.....	Petroleum	City of Burlington-Electric	19

MW = Megawatt.

NA = Not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Vermont</b>						
1. Central Vermont Pub Serv Corp.....	Investor-Owned	2,177,762	981,838	831,408	364,516	-
2. Green Mountain Power Corp.....	Investor-Owned	1,875,403	570,263	695,048	610,092	-
3. Vermont Electric Cooperative, Inc.....	Cooperative	424,316	220,295	121,907	82,114	-
4. City of Burlington-Electric.....	Public	346,632	85,582	191,531	69,519	-
5. Omya Inc.....	Investor-Owned	177,491	6,545	4,871	166,075	-
Total Sales, Top Five Providers.....		5,001,604	1,864,523	1,844,765	1,292,316	-
Percent of Total State Sales.....		91	88	93	93	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Vermont</b>										
<b>Electric Utilities.....</b>	<b>782</b>	<b>260</b>	<b>251</b>	<b>258</b>	<b>259</b>	<b>258</b>	<b>259</b>	<b>257</b>	<b>79.1</b>	<b>22.9</b>
Petroleum.....	117	107	101	100	101	101	101	100	11.8	8.9
Nuclear.....	506	-	-	-	-	-	-	-	51.1	-
Hydroelectric.....	107	96	93	100	101	99	100	100	10.8	8.9
Other Renewables <sup>1</sup> .....	53	57	57	57	57	57	57	57	5.3	5.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>207</b>	<b>737</b>	<b>747</b>	<b>745</b>	<b>859</b>	<b>853</b>	<b>869</b>	<b>869</b>	<b>20.9</b>	<b>77.1</b>
Petroleum.....	-	-	7	7	7	-	-	-	-	-
Nuclear.....	-	506	506	506	620	620	620	620	-	55.1
Hydroelectric.....	183	207	211	208	208	209	222	221	18.5	19.7
Other Renewables <sup>1</sup> .....	24	24	24	24	24	24	27	27	2.4	2.4
<b>Total Electric Industry.....</b>	<b>989</b>	<b>997</b>	<b>998</b>	<b>1,002</b>	<b>1,117</b>	<b>1,111</b>	<b>1,127</b>	<b>1,126</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	117	107	107	107	108	101	101	100	11.8	8.9
Nuclear.....	506	506	506	506	620	620	620	620	51.1	55.1
Hydroelectric.....	290	303	304	309	309	308	322	322	29.3	28.6
Other Renewables <sup>1</sup> .....	76	81	81	81	81	81	84	84	7.7	7.5

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Vermont</b>										
<b>Electric Utilities.....</b>	<b>4,734,555</b>	<b>626,337</b>	<b>643,426</b>	<b>673,607</b>	<b>802,680</b>	<b>701,474</b>	<b>752,800</b>	<b>711,507</b>	<b>83.0</b>	<b>9.8</b>
Petroleum.....	22,392	22,607	17,800	10,179	7,371	7,811	4,266	2,439	0.4	*
Natural Gas.....	18,291	2,029	3,224	2,240	1,875	1,889	2,655	4,431	0.3	0.1
Nuclear.....	4,059,107	-	-	-	-	-	-	-	71.2	-
Hydroelectric.....	420,685	367,624	395,734	415,691	520,077	399,636	486,207	474,895	7.4	6.5
Other Renewables <sup>1</sup> .....	214,080	234,077	226,668	245,497	273,357	292,138	259,672	229,742	3.8	3.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>969,038</b>	<b>5,401,625</b>	<b>4,826,953</b>	<b>5,043,148</b>	<b>6,281,664</b>	<b>5,122,108</b>	<b>6,067,416</b>	<b>6,570,841</b>	<b>17.0</b>	<b>90.2</b>
Petroleum.....	2,586	-	-	-	-	-	-	-	*	-
Nuclear.....	-	4,444,152	3,858,020	4,071,547	5,106,523	4,703,728	4,895,053	5,360,608	-	73.6
Hydroelectric.....	775,011	786,414	791,522	795,120	998,588	246,969	1,006,697	1,010,930	13.6	13.9
Other Renewables <sup>1</sup> .....	191,441	171,059	177,410	176,480	176,553	171,411	165,666	199,303	3.4	2.7
<b>Total Electric Industry.....</b>	<b>5,703,593</b>	<b>6,027,962</b>	<b>5,470,379</b>	<b>5,716,755</b>	<b>7,084,344</b>	<b>5,823,582</b>	<b>6,820,216</b>	<b>7,282,348</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	24,978	22,607	17,800	10,179	7,371	7,811	4,266	2,439	0.4	*
Natural Gas.....	18,291	2,029	3,224	2,240	1,875	1,889	2,655	4,431	0.3	0.1
Nuclear.....	4,059,107	4,444,152	3,858,020	4,071,547	5,106,523	4,703,728	4,895,053	5,360,608	71.2	73.6
Hydroelectric.....	1,195,696	1,154,038	1,187,256	1,210,811	1,518,665	646,605	1,492,904	1,485,825	21.0	20.4
Other Renewables <sup>1</sup> .....	405,521	405,136	404,078	421,977	449,910	463,549	425,338	429,045	7.1	5.9

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Vermont</b>								
Petroleum (cents per million Btu) <sup>1</sup> .....	-	-	-	1,314	-	-	1,999	1,179
Average heat value (Btu per gallon).....	-	-	-	138,098	-	-	NM	137,333
Average sulfur Content (percent).....	-	-	-	0.40	-	-	NM	0.22
Natural Gas (cents per million Btu).....	319	-	-	887	781	761	909	563
Average heat value (Btu per cubic foot).....	1,012	-	-	1,007	1,000	1,014	1,005	1,005

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

NM = Not meaningful due to large relative standard error. Please see Technical Notes and Appendix tables published in the Cost and Quality of Fuels.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Vermont</b>								
<b>Sulfur Dioxide</b> .....								
Petroleum.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	*	*	*	*	*	*	*	*
Total.....	*	*	*	*	*	*	*	*
<b>Nitrogen Oxide</b> .....								
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	-	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	1	*	*	*	*	*	*	1
Total.....	1	*	*	*	*	*	*	1
<b>Carbon Dioxide</b> .....								
Petroleum.....	30	24	19	12	9	9	5	3
Natural Gas.....	13	2	3	2	2	1	2	3
Total.....	44	26	22	14	10	10	7	7

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Vermont</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	1,999	2,011	2,109	2,189	2,142	2,170	2,133	2,122	36.2	38.6
Commercial .....	1,896	1,881	1,978	2,051	2,027	2,059	2,043	1,991	34.3	36.2
Industrial .....	1,587	1,460	1,577	1,644	1,626	1,635	1,565	1,383	28.7	25.2
Other .....	45	NA	NA	NA	NA	NA	NA	NA	0.8	--
All Sectors .....	5,527	5,352	5,664	5,883	5,795	5,864	5,741	5,497	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	243	258	273	284	287	307	309	316	42.8	45.1
Commercial .....	202	212	226	232	237	253	255	258	35.6	36.7
Industrial.....	117	117	126	128	135	146	144	127	20.5	18.2
Other.....	6	NA	NA	NA	NA	NA	NA	NA	1.1	--
All Sectors .....	568	588	624	644	659	706	708	701	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	12.17	12.82	12.94	12.96	13.39	14.15	14.48	14.90	--	--
Commercial .....	10.67	11.29	11.42	11.33	11.67	12.29	12.49	12.93	--	--
Industrial.....	7.35	8.05	7.96	7.77	8.33	8.92	9.19	9.21	--	--
Other.....	13.32	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	10.28	10.98	11.02	10.95	11.37	12.04	12.33	12.75	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Vermont</b>								
Number of Entities.....	3	15	NA	2	NA	NA	NA	20
Number of Retail Customers .....	254,480	54,563	NA	48,182	NA	NA	NA	357,225
Retail Sales (thousand megawatthours).....	4,231	773	NA	493	NA	NA	NA	5,497
Percentage of Retail Sales .....	76.97	14.07	--	8.96	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	517	107	NA	77	NA	NA	NA	701
Percentage of Revenue .....	73.79	15.25	--	10.97	--	--	--	100.00
Average Retail Price (cents/kWh).....	12.23	13.82	NA	15.60	NA	NA	NA	12.75

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Vermont</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	4,735	626	643	674	803	701	753	712
Independent Power Producers .....	933	5,396	4,800	5,013	6,256	5,121	6,046	6,546
<b>Electric Power Sector Generation Subtotal</b> .....	<b>5,668</b>	<b>6,022</b>	<b>5,444</b>	<b>5,687</b>	<b>7,059</b>	<b>5,822</b>	<b>6,799</b>	<b>7,257</b>
Combined Heat and Power, Industrial.....	36	6	27	30	25	2	21	25
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>36</b>	<b>6</b>	<b>27</b>	<b>30</b>	<b>25</b>	<b>2</b>	<b>21</b>	<b>25</b>
<b>Total Net Generation</b> .....	<b>5,704</b>	<b>6,028</b>	<b>5,470</b>	<b>5,717</b>	<b>7,084</b>	<b>5,824</b>	<b>6,820</b>	<b>7,282</b>
<b>Total International Imports</b> .....	<b>7,837</b>	<b>1,942</b>	<b>1,952</b>	<b>2,160<sup>R</sup></b>	<b>2,509</b>	<b>2,610</b>	<b>2,534</b>	<b>2,605</b>
<b>Total Supply</b> .....	<b>13,541</b>	<b>7,969</b>	<b>7,422</b>	<b>7,876</b>	<b>9,593</b>	<b>8,434</b>	<b>9,354</b>	<b>9,887</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	5,527	5,337	5,664	5,883	5,795	5,864	5,741	5,497
Facility Direct Retail Sales <sup>1</sup> .....	-	16	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>5,527</b>	<b>5,352</b>	<b>5,664</b>	<b>5,883</b>	<b>5,795</b>	<b>5,864</b>	<b>5,741</b>	<b>5,497</b>
<b>Direct Use</b> .....	<b>112</b>	<b>71</b>	<b>71</b>	<b>30</b>	<b>26</b>	<b>19<sup>R</sup></b>	<b>1<sup>R</sup></b>	<b>1</b>
<b>Total International Exports</b> .....	<b>165</b>	<b>26</b>	<b>14</b>	<b>38<sup>R</sup></b>	<b>80</b>	<b>117</b>	<b>41<sup>R</sup></b>	<b>41</b>
<b>Estimated Losses</b> .....	<b>401</b>	<b>446</b>	<b>362</b>	<b>402</b>	<b>404</b>	<b>444<sup>R</sup></b>	<b>436<sup>R</sup></b>	<b>301</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>7,336</b>	<b>2,075</b>	<b>1,311</b>	<b>1,523<sup>R</sup></b>	<b>3,289</b>	<b>1,990<sup>R</sup></b>	<b>3,137<sup>R</sup></b>	<b>4,047</b>
<b>Total Disposition</b> .....	<b>13,541<sup>R</sup></b>	<b>7,969<sup>R</sup></b>	<b>7,422<sup>R</sup></b>	<b>7,876<sup>R</sup></b>	<b>9,593<sup>R</sup></b>	<b>8,434<sup>R</sup></b>	<b>9,354<sup>R</sup></b>	<b>9,887</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>2.18</b>	<b>1.35</b>	<b>1.21</b>	<b>1.24</b>	<b>1.52</b>	<b>1.31<sup>R</sup></b>	<b>1.50<sup>R</sup></b>	<b>1.69</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Virginia</b>		
NERC Region(s).....		RFC/SERC
Primary Energy Source.....		Nuclear
Net Summer Capacity (megawatts) .....	23,788	17
Electric Utilities.....	19,135	15
Independent Power Producers & Combined Heat and Power.....	4,653	21
Net Generation (megawatthours).....	70,082,066	22
Electric Utilities.....	59,225,368	16
Independent Power Producers & Combined Heat and Power.....	10,856,698	30
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	118	18
Nitrogen Oxide.....	39	28
Carbon Dioxide.....	36,161	27
Sulfur Dioxide (lbs/MWh) .....	3.7	19
Nitrogen Oxide (lbs/MWh) .....	1.2	28
Carbon Dioxide (lbs/MWh).....	1,138	32
Total Retail Sales (megawatthours).....	108,462,463	10
Full Service Provider Sales (megawatthours) .....	108,461,587	8
Energy-Only Provider Sales (megawatthours).....	876	20
Direct Use (megawatthours) .....	2,436,293	11
Average Retail Price (cents/kWh).....	8.93	24

MWh = Megawatthours.  
kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Virginia</b>			
1. Bath County .....	Pumped Storage	Virginia Electric & Power Co	3,003
2. North Anna .....	Nuclear	Virginia Electric & Power Co	1,807
3. Possum Point .....	Gas	Virginia Electric & Power Co	1,733
4. Chesterfield.....	Coal	Virginia Electric & Power Co	1,632
5. Surry .....	Nuclear	Virginia Electric & Power Co	1,598
6. Yorktown.....	Coal	Virginia Electric & Power Co	1,141
7. Tenaska Virginia Generating Station .....	Gas	Tenaska Virginia Partners LP	935
8. Clover .....	Coal	Virginia Electric & Power Co	865
9. Doswell Energy Center.....	Gas	Doswell Ltd Partnership	820
10. Ladysmith .....	Gas	Virginia Electric & Power Co	783

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Virginia Electric & Power Co .....	Investor-Owned	73,724,786	28,340,232	38,043,902	7,147,238	193,414
2. Appalachian Power Co .....	Investor-Owned	15,717,607	6,477,879	4,113,983	5,125,745	-
3. Northern Virginia Elec Coop.....	Cooperative	3,296,045	1,938,853	1,087,755	269,437	-
4. The Potomac Edison Co .....	Investor-Owned	2,937,671	1,298,890	749,801	888,980	-
5. Rappahannock Electric Coop .....	Cooperative	2,507,087	1,455,905	139,822	911,360	-
Total Sales, Top Five Providers .....		98,183,196	39,511,759	44,135,263	14,342,760	193,414
Percent of Total State Sales .....		91	88	94	86	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Virginia</b>										
<b>Electric Utilities.....</b>	<b>15,311</b>	<b>17,128</b>	<b>17,567</b>	<b>18,091</b>	<b>18,166</b>	<b>18,376</b>	<b>18,828</b>	<b>19,135</b>	<b>81.8</b>	<b>80.4</b>
Coal.....	5,099	4,468	4,468	4,586	4,586	4,605	4,587	4,587	27.2	19.3
Petroleum.....	2,213	2,081	2,098	2,031	2,027	2,041	2,041	2,050	11.8	8.6
Natural Gas .....	1,524	3,714	4,101	4,395	4,395	4,429	4,897	5,076	8.1	21.3
Nuclear.....	3,392	3,467	3,440	3,432	3,432	3,404	3,404	3,404	18.1	14.3
Hydroelectric .....	738	759	760	650	650	654	656	695	3.9	2.9
Other Renewables <sup>1</sup> .....	*	-	-	80	80	83	83	83	*	0.3
Pumped Storage.....	2,345	2,638	2,700	2,917	2,997	3,161	3,161	3,241	12.5	13.6
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>3,414</b>	<b>4,130</b>	<b>4,939</b>	<b>4,509</b>	<b>4,482</b>	<b>4,616</b>	<b>4,648</b>	<b>4,653</b>	<b>18.2</b>	<b>19.6</b>
Coal.....	1,106	1,328	1,329	1,197	1,188	1,189	1,186	1,190	5.9	5.0
Petroleum.....	17	361	359	359	359	377	378	378	0.1	1.6
Natural Gas .....	1,637	1,844	2,654	2,433	2,414	2,440	2,454	2,460	8.7	10.3
Hydroelectric .....	20	21	22	22	21	21	21	21	0.1	0.1
Other Renewables <sup>1</sup> .....	633	576	575	498	501	589	608	604	3.4	2.5
<b>Total Electric Industry.....</b>	<b>18,725</b>	<b>21,258</b>	<b>22,506</b>	<b>22,599</b>	<b>22,648</b>	<b>22,992</b>	<b>23,476</b>	<b>23,788</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,205	5,796	5,797	5,783	5,774	5,794	5,773	5,777	33.1	24.3
Petroleum.....	2,230	2,442	2,457	2,390	2,386	2,418	2,418	2,427	11.9	10.2
Natural Gas .....	3,161	5,558	6,754	6,828	6,809	6,869	7,351	7,536	16.9	31.7
Nuclear.....	3,392	3,467	3,440	3,432	3,432	3,404	3,404	3,404	18.1	14.3
Hydroelectric .....	758	780	782	672	671	675	677	716	4.1	3.0
Other Renewables <sup>1</sup> .....	633	576	575	577	580	672	691	687	3.4	2.9
Pumped Storage.....	2,345	2,638	2,700	2,917	2,997	3,161	3,161	3,241	12.5	13.6

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Virginia</b>										
<b>Electric Utilities.....</b>	<b>65,071,068</b>	<b>61,806,347</b>	<b>65,103,653</b>	<b>65,456,080</b>	<b>61,176,351</b>	<b>64,316,732</b>	<b>59,780,402</b>	<b>59,225,368</b>	<b>88.1</b>	<b>84.5</b>
Coal.....	31,743,474	29,145,703	27,772,985	28,803,324	28,553,670	29,425,485	25,779,154	22,424,638	43.0	32.0
Petroleum.....	3,035,028	4,982,314	4,664,410	3,809,135	662,100	1,653,940	903,428	738,411	4.1	1.1
Natural Gas.....	2,599,607	2,690,674	3,976,271	4,414,479	3,781,091	5,947,608	5,350,551	7,348,089	3.5	10.5
Nuclear.....	28,300,643	24,816,022	28,315,294	27,918,481	27,593,516	27,268,475	27,930,764	28,212,252	38.3	40.3
Hydroelectric.....	620,073	1,669,793	1,490,114	1,391,152	1,270,707	1,182,353	947,412	1,396,112	0.8	2.0
Other Renewables <sup>1</sup> .....	-	-	50,690	540,332	482,711	459,154	506,781	440,576	-	0.6
Pumped Storage.....	-1,227,757	-1,498,159	-1,166,111	-1,420,823	-1,167,444	-1,620,283	-1,637,688	-1,334,709	-1.7	-1.9
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>8,826,543</b>	<b>13,503,073</b>	<b>13,796,387</b>	<b>13,486,965</b>	<b>11,893,186</b>	<b>14,043,775</b>	<b>12,898,129</b>	<b>10,856,698</b>	<b>11.9</b>	<b>15.5</b>
Coal.....	3,701,049	7,947,628	7,883,021	6,621,551	5,734,471	5,995,261	5,997,202	3,174,650	5.0	4.5
Petroleum.....	327,710	798,022	489,202	455,524	177,112	443,009	246,931	349,250	0.4	0.5
Natural Gas.....	2,039,874	1,928,391	2,461,538	3,880,291	3,434,359	4,956,232	3,964,532	4,853,295	2.8	6.9
Other Gases <sup>2</sup> .....	-	2,959	-	-	-	-	-	-	-	-
Hydroelectric.....	61,614	111,776	92,936	93,201	80,487	65,911	63,581	82,518	0.1	0.1
Other Renewables <sup>1</sup> .....	2,696,296	2,261,359	2,381,667	1,957,563	1,975,739	2,106,417	2,191,678	1,976,943	3.6	2.8
Other <sup>3</sup> .....	-	452,936	488,023	478,834	491,019	476,945	434,205	420,042	-	0.6
<b>Total Electric Industry.....</b>	<b>73,897,611</b>	<b>75,309,420</b>	<b>78,900,040</b>	<b>78,943,045</b>	<b>73,069,537</b>	<b>78,360,507</b>	<b>72,678,531</b>	<b>70,082,066</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	35,444,523	37,093,331	35,656,006	35,424,875	34,288,141	35,420,746	31,776,356	25,599,288	48.0	36.5
Petroleum.....	3,362,738	5,780,336	5,153,612	4,264,659	839,212	2,096,949	1,150,360	1,087,660	4.6	1.6
Natural Gas.....	4,639,481	4,619,065	6,437,809	8,294,770	7,215,450	10,903,840	9,315,083	12,201,384	6.3	17.4
Other Gases <sup>2</sup> .....	-	2,959	-	-	-	-	-	-	-	-
Nuclear.....	28,300,643	24,816,022	28,315,294	27,918,481	27,593,516	27,268,475	27,930,764	28,212,252	38.3	40.3
Hydroelectric.....	681,687	1,781,569	1,583,050	1,484,353	1,351,194	1,248,264	1,010,993	1,478,630	0.9	2.1
Other Renewables <sup>1</sup> .....	2,696,296	2,261,359	2,432,357	2,497,895	2,458,450	2,565,571	2,698,460	2,417,519	3.6	3.4
Pumped Storage.....	-1,227,757	-1,498,159	-1,166,111	-1,420,823	-1,167,444	-1,620,283	-1,637,688	-1,334,709	-1.7	-1.9
Other <sup>3</sup> .....	-	452,936	488,023	478,834	491,019	476,945	434,205	420,042	-	0.6

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Virginia</b>								
Coal (cents per million Btu) .....	134	167	195	233	245	249	277	308
Average heat value (Btu per pound).....	12,702	12,826	12,713	12,650	12,592	12,531	12,492	12,501
Average sulfur Content (percent).....	1.30	0.97	0.94	1.00	1.04	0.94	0.92	1.00
Petroleum (cents per million Btu) <sup>1</sup> .....	230	499	497	761	875	922	1,380	978
Average heat value (Btu per gallon).....	150,660	149,367	150,757	149,019	150,090	148,238	147,390	145,531
Average sulfur Content (percent).....	1.07	0.64	0.78	0.65	0.48	0.33	0.58	0.63
Natural Gas (cents per million Btu).....	300	618	665	934	751	816	1,043	452
Average heat value (Btu per cubic foot).....	1,056	1,035	1,032	1,034	1,035	1,035	1,036	1,036

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Virginia</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	263	200	182	203	173	172	124	101
Petroleum.....	20	25	23	18	10	12	5	4
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	12 <sup>R</sup>	12	12	12 <sup>R</sup>	14	13	13	12
Other <sup>2</sup> .....	2 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	297	237	217	233	197	197	142	118
<b>Nitrogen Oxide .....</b>								
Coal.....	97	63	54	53	48	51	43	28
Petroleum.....	6	7	5	4	2	3	2	1
Natural Gas.....	8	3	3	3	2	3	3	3
Other Gases.....	-	*	-	-	-	-	-	-
Other Renewables <sup>1</sup> .....	6 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	3 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	4
Other <sup>2</sup> .....	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	4 <sup>R</sup>	3 <sup>R</sup>	4 <sup>R</sup>	4
Total.....	121	79	68	66	59	64	56	39
<b>Carbon Dioxide .....</b>								
Coal.....	37,688 <sup>R</sup>	38,614 <sup>R</sup>	38,742 <sup>R</sup>	38,418 <sup>R</sup>	36,839 <sup>R</sup>	38,707 <sup>R</sup>	34,955 <sup>R</sup>	28,714
Petroleum.....	3,065	4,705	4,397	3,717	942	2,291	1,079	1,068
Natural Gas.....	2,713	2,356	3,154	5,035	3,680	5,253	4,518	5,528
Other <sup>2</sup> .....	767 <sup>R</sup>	918	1,018	1,046	1,062	967	849	851
Total.....	44,234 <sup>R</sup>	46,592 <sup>R</sup>	47,311 <sup>R</sup>	48,216 <sup>R</sup>	42,523 <sup>R</sup>	47,218 <sup>R</sup>	41,402 <sup>R</sup>	36,161

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Virginia</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	35,779	40,877	42,503	44,662	42,906	45,481	44,597	44,763	38.5	41.3
Commercial .....	26,968	41,179	43,025	44,670	44,654	46,971	46,878	46,828	29.0	43.2
Industrial .....	20,269	19,282	19,734	19,354	18,998	18,925	18,438	16,678	21.8	15.4
Other .....	10,017	NA	NA	NA	NA	NA	NA	NA	10.8	--
Transportation.....	NA	172	162	163	163	193	194	193	--	0.2
All Sectors .....	93,032	101,510	105,424	108,850	106,721	111,570	110,106	108,462	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	2,677	3,174	3,397	3,645	3,642	3,976	4,288	4,748	49.1	49.0
Commercial .....	1,498	2,365	2,530	2,705	2,775	2,996	3,433	3,772	27.5	38.9
Industrial.....	778	815	843	863	891	959	1,072	1,153	14.3	11.9
Other.....	501	NA	NA	NA	NA	NA	NA	NA	9.2	--
Transportation.....	NA	9	10	11	11	13	15	16	--	0.2
All Sectors .....	5,454	6,364	6,780	7,223	7,319	7,943	8,809	9,689	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.48	7.76	7.99	8.16	8.49	8.74	9.62	10.61	--	--
Commercial .....	5.55	5.74	5.88	6.05	6.21	6.38	7.32	8.06	--	--
Industrial.....	3.84	4.23	4.27	4.46	4.69	5.07	5.82	6.91	--	--
Other.....	5.00	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	5.46	6.25	6.81	6.81	6.73	7.80	8.42	--	--
All Sectors .....	5.86	6.27	6.43	6.64	6.86	7.12	8.00	8.93	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Virginia</b>								
Number of Entities.....	4	16	NA	13	NA	1	1	35
Number of Retail Customers .....	2,937,420	162,366	NA	502,046	NA	29	NA	3,601,861
Retail Sales (thousand megawatthours).....	93,291	4,778	NA	10,392	NA	1	NA	108,462
Percentage of Retail Sales .....	86.01	4.41	--	9.58	--	*	--	100.00
Revenue from Retail Sales (million dollars) .....	8,071	408	NA	1,211	NA	*	*	9,689
Percentage of Revenue .....	83.30	4.21	--	12.50	--	*	*	100.00
Average Retail Price (cents/kWh).....	8.65	8.53	NA	11.65	NA	11.76	2.43	8.93

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Virginia</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	65,071	61,806	65,104	65,456	61,176	64,317	59,780	59,225
Independent Power Producers .....	2,408	6,058	6,263	5,279	4,636	6,538	4,970	5,627
Combined Heat and Power, Electric .....	3,234	4,368	4,509	5,251	4,409	4,638	5,020	2,608
<b>Electric Power Sector Generation Subtotal</b> .....	<b>70,713</b>	<b>72,232</b>	<b>75,876</b>	<b>75,986</b>	<b>70,221</b>	<b>75,493</b>	<b>69,770</b>	<b>67,461</b>
Combined Heat and Power, Commercial .....	543	332	361	389	347	398	386	334
Combined Heat and Power, Industrial.....	2,641	2,745	2,664	2,568	2,502	2,469	2,522	2,288
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>3,184</b>	<b>3,077</b>	<b>3,024</b>	<b>2,957</b>	<b>2,849</b>	<b>2,868</b>	<b>2,908</b>	<b>2,622</b>
<b>Total Net Generation</b> .....	<b>73,898</b>	<b>75,309</b>	<b>78,900</b>	<b>78,943</b>	<b>73,070</b>	<b>78,361</b>	<b>72,679</b>	<b>70,082</b>
<b>Total International Imports</b> .....	-	*	-	-	-	-	-	-
<b>Total Supply</b> .....	<b>73,898</b>	<b>75,309</b>	<b>78,900</b>	<b>78,943</b>	<b>73,070</b>	<b>78,361</b>	<b>72,679</b>	<b>70,082</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	93,032	101,324	105,237	108,676	106,534	111,526	110,091	108,462
Energy-Only Providers.....	-	31	26	22	42	44	16	1
Facility Direct Retail Sales <sup>1</sup> .....	-	155	161	151	145	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>93,032</b>	<b>101,510</b>	<b>105,424</b>	<b>108,850</b>	<b>106,721</b>	<b>111,570</b>	<b>110,106</b>	<b>108,462</b>
<b>Direct Use</b> .....	<b>2,984</b>	<b>2,995</b>	<b>2,999</b>	<b>2,577</b>	<b>2,618</b>	<b>2,439<sup>R</sup></b>	<b>2,697<sup>R</sup></b>	<b>2,436</b>
<b>Estimated Losses</b> .....	<b>6,744</b>	<b>7,427</b>	<b>6,187</b>	<b>7,111<sup>R</sup></b>	<b>9,026</b>	<b>8,171<sup>R</sup></b>	<b>6,151<sup>R</sup></b>	<b>5,902</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-28,863</b>	<b>-36,623<sup>R</sup></b>	<b>-35,709</b>	<b>-39,595<sup>R</sup></b>	<b>-45,296</b>	<b>-43,818<sup>R</sup></b>	<b>-46,276<sup>R</sup></b>	<b>-46,719</b>
<b>Total Disposition</b> .....	<b>73,898<sup>R</sup></b>	<b>75,309<sup>R</sup></b>	<b>78,900<sup>R</sup></b>	<b>78,943<sup>R</sup></b>	<b>73,070<sup>R</sup></b>	<b>78,361<sup>R</sup></b>	<b>72,679<sup>R</sup></b>	<b>70,082</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.72</b>	<b>0.67</b>	<b>0.69</b>	<b>0.67</b>	<b>0.62</b>	<b>0.64<sup>R</sup></b>	<b>0.61<sup>R</sup></b>	<b>0.60</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Washington</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Hydroelectric
Net Summer Capacity (megawatts) .....	30,095	11
Electric Utilities.....	26,322	4
Independent Power Producers & Combined Heat and Power.....	3,773	26
Net Generation (megawatthours).....	104,470,133	13
Electric Utilities.....	90,733,028	8
Independent Power Producers & Combined Heat and Power.....	13,737,104	24
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	13	40
Nitrogen Oxide.....	18	37
Carbon Dioxide.....	13,526	39
Sulfur Dioxide (lbs/MWh) .....	0.3	47
Nitrogen Oxide (lbs/MWh) .....	0.4	49
Carbon Dioxide (lbs/MWh).....	285	49
Total Retail Sales (megawatthours).....	90,164,701	14
Full Service Provider Sales (megawatthours) .....	85,139,387	13
Energy-Only Provider Sales (megawatthours).....	5,025,314	12
Direct Use (megawatthours) .....	887,911	29
Average Retail Price (cents/kWh).....	6.60	48

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Washington</b>			
1. Grand Coulee.....	Hydroelectric	U S Bureau of Reclamation	7,079
2. Chief Joseph .....	Hydroelectric	USCE-North Pacific Division	2,456
3. TransAlta Centralia Generation.....	Coal	TransAlta Centralia Gen LLC	1,632
4. Rocky Reach.....	Hydroelectric	PUD No 1 of Chelan County	1,254
5. Columbia Generating Station .....	Nuclear	Energy Northwest	1,131
6. Wanapum.....	Hydroelectric	PUD No 2 of Grant County	1,044
7. Boundary .....	Hydroelectric	Seattle City of	1,040
8. Priest Rapids .....	Hydroelectric	PUD No 2 of Grant County	932
9. Wells .....	Hydroelectric	PUD No 1 of Douglas County	840
10. Lower Monumental .....	Hydroelectric	USCE-North Pacific Division	810
10. Little Goose .....	Hydroelectric	USCE-North Pacific Division	810
10. Lower Granite.....	Hydroelectric	USCE-North Pacific Division	810

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Washington</b>						
1. Puget Sound Energy Inc .....	Investor-Owned	21,866,449	11,148,187	9,571,763	1,146,499	-
2. Seattle City of .....	Public	9,693,426	3,210,219	5,299,359	1,183,258	590
3. Snohomish County PUD No 1 .....	Public	6,872,796	3,583,254	2,455,575	833,967	-
4. Avista Corp .....	Investor-Owned	5,509,742	2,566,413	2,194,183	749,146	-
5. PUD No 1 of Cowlitz County .....	Public	4,893,834	791,829	383,459	3,718,546	-
Total Sales, Top Five Providers .....		48,836,247	21,299,902	19,904,339	7,631,416	590
Percent of Total State Sales .....		54	58	66	33	22

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Washington</b>										
<b>Electric Utilities.....</b>	<b>25,189</b>	<b>24,216</b>	<b>23,878</b>	<b>24,065</b>	<b>24,303</b>	<b>24,511</b>	<b>26,243</b>	<b>26,322</b>	<b>96.6</b>	<b>87.5</b>
Coal.....	1,340	-	-	-	-	-	-	-	5.1	-
Petroleum.....	4	39	39	39	39	3	3	3	*	*
Natural Gas.....	955	1,153	1,184	1,141	1,138	1,111	2,768	2,782	3.7	9.2
Nuclear.....	1,117	1,108	1,122	1,131	1,131	1,131	1,131	1,131	4.3	3.8
Hydroelectric.....	21,420	21,408	21,010	21,081	21,094	21,274	21,145	21,030	82.1	69.9
Other Renewables <sup>1</sup> .....	93	194	210	360	588	679	882	1,063	0.4	3.5
Pumped Storage.....	261	314	314	314	314	314	314	314	1.0	1.0
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>893</b>	<b>3,473</b>	<b>3,695</b>	<b>3,726</b>	<b>3,920</b>	<b>4,104</b>	<b>3,251</b>	<b>3,773</b>	<b>3.4</b>	<b>12.5</b>
Coal.....	2	1,407	1,407	1,405	1,405	1,405	1,376	1,376	*	4.6
Petroleum.....	-	176	-	2	2	2	2	3	-	*
Natural Gas.....	590	1,433	1,829	1,853	1,853	1,823	982	982	2.3	3.3
Hydroelectric.....	101	48	60	65	62	59	58	58	0.4	0.2
Other Renewables <sup>1</sup> .....	200	408	399	401	598	815	833	1,354	0.8	4.5
<b>Total Electric Industry.....</b>	<b>26,082</b>	<b>27,689</b>	<b>27,573</b>	<b>27,791</b>	<b>28,224</b>	<b>28,615</b>	<b>29,494</b>	<b>30,095</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,342	1,407	1,407	1,405	1,405	1,405	1,376	1,376	5.1	4.6
Petroleum.....	4	215	39	40	40	4	4	5	*	*
Natural Gas.....	1,545	2,586	3,013	2,994	2,991	2,933	3,750	3,764	5.9	12.5
Nuclear.....	1,117	1,108	1,122	1,131	1,131	1,131	1,131	1,131	4.3	3.8
Hydroelectric.....	21,521	21,457	21,070	21,146	21,156	21,333	21,203	21,088	82.5	70.1
Other Renewables <sup>1</sup> .....	294	602	609	761	1,186	1,494	1,716	2,416	1.1	8.0
Pumped Storage.....	261	314	314	314	314	314	314	314	1.0	1.0

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Washington</b>										
<b>Electric Utilities.....</b>	<b>112,071,721</b>	<b>82,205,391</b>	<b>83,500,909</b>	<b>83,152,928</b>	<b>94,067,080</b>	<b>90,531,201</b>	<b>93,162,079</b>	<b>90,733,028</b>	<b>95.7</b>	<b>86.9</b>
Coal.....	8,655,652	-	-	-	-	-	-	-	7.4	-
Petroleum.....	9,688	7,851	13,112	2,416	8,517	3,983	9,252	16,054	*	*
Natural Gas.....	578,069	2,256,386	2,286,578	2,155,528	1,672,572	1,773,539	4,130,896	8,965,723	0.5	8.6
Nuclear.....	6,085,893	7,614,708	8,981,583	8,242,273	9,328,277	8,108,560	9,269,639	6,634,014	5.2	6.4
Hydroelectric.....	96,472,455	71,540,502	71,393,131	71,894,440	81,791,115	78,613,750	77,431,888	72,727,385	82.4	69.6
Other Renewables <sup>1</sup> .....	269,964	789,237	836,323	849,798	1,219,500	1,986,857	2,271,692	2,337,469	0.2	2.2
Pumped Storage.....	-	-3,293	-9,818	8,473	47,099	44,512	48,713	52,383	-	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>5,012,297</b>	<b>17,889,300</b>	<b>18,664,144</b>	<b>18,812,922</b>	<b>14,136,075</b>	<b>16,459,016</b>	<b>17,666,372</b>	<b>13,737,104</b>	<b>4.3</b>	<b>13.1</b>
Coal.....	36,827	11,089,796	10,409,331	10,494,407	6,372,823	8,556,816	8,761,644	7,477,773	*	7.2
Petroleum.....	41,807	58,741	72,772	64,879	29,713	33,059	25,938	37,550	*	*
Natural Gas.....	3,129,168	4,826,219	6,182,222	6,423,018	5,822,838	5,513,855	5,678,458	3,005,418	2.7	2.9
Other Gases <sup>2</sup> .....	221,354	303,188	275,284	321,724	348,649	333,773	272,339	244,888	0.2	0.2
Hydroelectric.....	516,927	216,281	182,569	180,209	216,514	215,446	204,870	205,319	0.4	0.2
Other Renewables <sup>1</sup> .....	1,066,170	1,339,068	1,475,102	1,263,863	1,283,354	1,743,697	2,666,747	2,707,201	0.9	2.6
Other <sup>3</sup> .....	44	56,007	66,864	64,822	62,185	62,370	56,377	58,956	*	0.1
<b>Total Electric Industry.....</b>	<b>117,084,018</b>	<b>100,094,691</b>	<b>102,165,052</b>	<b>101,965,850</b>	<b>108,203,155</b>	<b>106,990,217</b>	<b>110,828,451</b>	<b>104,470,133</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	8,692,479	11,089,796	10,409,331	10,494,407	6,372,823	8,556,816	8,761,644	7,477,773	7.4	7.2
Petroleum.....	51,495	66,592	85,884	67,295	38,230	37,042	35,189	53,604	*	0.1
Natural Gas.....	3,707,237	7,082,605	8,468,800	8,578,546	7,495,410	7,287,394	9,809,354	11,971,141	3.2	11.5
Other Gases <sup>2</sup> .....	221,354	303,188	275,284	321,724	348,649	333,773	272,339	244,888	0.2	0.2
Nuclear.....	6,085,893	7,614,708	8,981,583	8,242,273	9,328,277	8,108,560	9,269,639	6,634,014	5.2	6.4
Hydroelectric.....	96,989,382	71,756,783	71,575,700	72,074,649	82,007,629	78,829,195	77,636,758	72,932,704	82.8	69.8
Other Renewables <sup>1</sup> .....	1,336,134	2,128,305	2,311,425	2,113,661	2,502,854	3,730,554	4,938,438	5,044,670	1.1	4.8
Pumped Storage.....	-	-3,293	-9,818	8,473	47,099	44,512	48,713	52,383	-	0.1
Other <sup>3</sup> .....	44	56,007	66,864	64,822	62,185	62,370	56,377	58,956	*	0.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Washington</b>								
Coal (cents per million Btu) .....	156	W	W	W	W	W	W	W
Average heat value (Btu per pound).....	8,224	8,052	8,151	8,131	8,532	9,211	8,366	8,403
Average sulfur Content (percent).....	0.75	1.00	0.93	0.75	0.69	0.34	0.32	0.33
Petroleum (cents per million Btu) <sup>1</sup> .....	479	W	W	W	W	W	W	W
Average heat value (Btu per gallon).....	140,000	145,438	139,331	137,340	142,807	138,598	139,040	139,905
Average sulfur Content (percent).....	0.30	0.27	0.90	0.58	0.41	0.32	0.43	0.34
Natural Gas (cents per million Btu).....	-	415	457	649	565	612	833	515
Average heat value (Btu per cubic foot).....	-	1,029	1,029	1,027	1,028	1,023	1,029	1,029

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Washington</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	81	8	7	4	2	2	3	4
Petroleum.....	2	1	1	1	2	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	8	7	7	7	7	7	7	8
Other <sup>2</sup> .....	*	*	*	*	*	*	*	*
Total.....	91	16	15	11	11	10	10	13
<b>Nitrogen Oxide .....</b>								
Coal.....	20	18	14	15	8	11	10	9
Petroleum.....	*	*	*	*	1	*	*	*
Natural Gas.....	8	7	5	5	5	4	3	4
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	4 <sup>R</sup>	4	4	4	5	3 <sup>R</sup>	3 <sup>R</sup>	4
Other <sup>2</sup> .....	1 <sup>R</sup>	*	*	*	*	*	*	*
Total.....	33	31	24	26	20	19	18	18
<b>Carbon Dioxide .....</b>								
Coal.....	9,276 <sup>R</sup>	11,408 <sup>R</sup>	10,836 <sup>R</sup>	10,874 <sup>R</sup>	6,644 <sup>R</sup>	9,173 <sup>R</sup>	9,084 <sup>R</sup>	8,017
Petroleum.....	242	307	355	319	264	302	204	166
Natural Gas.....	2,568	3,446	3,873	3,802	3,465	3,235	4,289	5,227
Other <sup>2</sup> .....	118 <sup>R</sup>	96	121	120	119	117	109	116
Total.....	12,204 <sup>R</sup>	15,257 <sup>R</sup>	15,185 <sup>R</sup>	15,115 <sup>R</sup>	10,493 <sup>R</sup>	12,827 <sup>R</sup>	13,686 <sup>R</sup>	13,526

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Washington</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	32,817	31,872	32,455	33,212	34,439	35,389	36,336	36,753	33.1	40.8
Commercial .....	23,009	28,039	28,226	28,100	28,580	29,599	29,878	30,055	23.2	33.3
Industrial .....	39,499	18,180	19,259	22,112	22,013	20,753	21,117	23,354	39.9	25.9
Other .....	3,706	NA	NA	NA	NA	NA	NA	NA	3.7	--
Transportation.....	NA	42	42	2	1	2	2	3	--	*
All Sectors .....	99,030	78,134	79,982	83,425	85,033	85,742	87,333	90,165	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,673	2,010	2,069	2,173	2,350	2,570	2,741	2,821	42.1	47.4
Commercial .....	1,119	1,701	1,742	1,778	1,896	1,940	2,019	2,093	28.2	35.2
Industrial.....	1,045	866	825	943	976	948	960	1,035	26.3	17.4
Other.....	136	NA	NA	NA	NA	NA	NA	NA	3.4	--
Transportation.....	NA	3	3	*	*	*	*	*	--	*
All Sectors .....	3,973	4,580	4,638	4,894	5,222	5,458	5,721	5,949	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	5.10	6.31	6.37	6.54	6.82	7.26	7.54	7.68	--	--
Commercial .....	4.86	6.07	6.17	6.33	6.63	6.55	6.76	6.96	--	--
Industrial.....	2.65	4.76	4.28	4.27	4.44	4.57	4.55	4.43	--	--
Other.....	3.66	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	6.45	6.44	6.44	5.93	5.74	5.82	5.91	--	--
All Sectors .....	4.01	5.86	5.80	5.87	6.14	6.37	6.55	6.60	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	

**Washington**

Number of Entities.....	3	40	1	18	NA	6	3	71
Number of Retail Customers .....	1,432,820	1,591,831	9	163,109	NA	8	NA	3,187,777
Retail Sales (thousand megawatthours).....	31,481	48,402	1,058	4,198	NA	5,025	NA	90,165
Percentage of Retail Sales .....	34.92	53.68	1.17	4.66	--	5.57	--	100.00
Revenue from Retail Sales (million dollars) .....	2,747	2,685	33	262	NA	203	19	5,949
Percentage of Revenue .....	46.18	45.14	0.55	4.41	--	3.41	0.32	100.00
Average Retail Price (cents/kWh).....	8.70	5.55	3.10	6.25	NA	4.03	0.38	6.60

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Washington</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities.....	112,072	82,205	83,501	83,153	94,067	90,531	93,162	90,733
Independent Power Producers .....	484	13,541	15,054	15,287	10,887	13,797	14,908	10,531
Combined Heat and Power, Electric .....	3,048	3,350	2,583	2,517	2,385	1,948	1,860	2,085
<b>Electric Power Sector Generation Subtotal</b> .....	<b>115,604</b>	<b>99,097</b>	<b>101,138</b>	<b>100,956</b>	<b>107,339</b>	<b>106,277</b>	<b>109,929</b>	<b>103,349</b>
Combined Heat and Power, Commercial .....	118	77	95	73	78	52	63	59
Combined Heat and Power, Industrial.....	1,362	920	932	937	786	661	836	1,062
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>1,480</b>	<b>998</b>	<b>1,027</b>	<b>1,010</b>	<b>864</b>	<b>714</b>	<b>899</b>	<b>1,121</b>
<b>Total Net Generation</b> .....	<b>117,084</b>	<b>100,095</b>	<b>102,165</b>	<b>101,966</b>	<b>108,203</b>	<b>106,990</b>	<b>110,828</b>	<b>104,470</b>
<b>Total International Imports</b> .....	<b>8,834</b>	<b>3,445</b>	<b>2,229</b>	<b>2,533</b>	<b>2,430</b>	<b>3,622</b>	<b>2,973</b>	<b>3,150</b>
<b>Total Supply</b> .....	<b>125,918</b>	<b>103,540</b>	<b>104,394</b>	<b>104,498</b>	<b>110,633</b>	<b>110,612</b>	<b>113,802</b>	<b>107,620</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	94,155	76,104	79,606	81,395	82,941	83,475	85,263	85,139
Energy-Only Providers.....	4,875	2,021	376	2,030	2,092	2,267	2,070	5,025
Facility Direct Retail Sales <sup>1</sup> .....	-	9	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>99,030</b>	<b>78,134</b>	<b>79,982</b>	<b>83,425</b>	<b>85,033</b>	<b>85,742</b>	<b>87,333</b>	<b>90,165</b>
<b>Direct Use</b> .....	<b>1,422</b>	<b>1,393</b>	<b>1,394</b>	<b>522</b>	<b>759</b>	<b>624</b>	<b>650</b>	<b>888</b>
<b>Total International Exports</b> .....	<b>7,025</b>	<b>5,402</b>	<b>7,077</b>	<b>5,537</b>	<b>11,086</b>	<b>6,881</b>	<b>10,247</b>	<b>9,328</b>
<b>Estimated Losses</b> .....	<b>7,179</b>	<b>5,822</b>	<b>4,513</b>	<b>6,020<sup>R</sup></b>	<b>5,288</b>	<b>6,135<sup>R</sup></b>	<b>5,880<sup>R</sup></b>	<b>5,103</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>11,262</b>	<b>12,790</b>	<b>11,428</b>	<b>8,993<sup>R</sup></b>	<b>8,465</b>	<b>11,231<sup>R</sup></b>	<b>9,692<sup>R</sup></b>	<b>2,137</b>
<b>Total Disposition</b> .....	<b>125,918<sup>R</sup></b>	<b>103,540<sup>R</sup></b>	<b>104,394<sup>R</sup></b>	<b>104,498<sup>R</sup></b>	<b>110,633<sup>R</sup></b>	<b>110,612<sup>R</sup></b>	<b>113,802<sup>R</sup></b>	<b>107,620</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>1.10</b>	<b>1.14</b>	<b>1.12</b>	<b>1.09</b>	<b>1.08</b>	<b>1.11<sup>R</sup></b>	<b>1.09<sup>R</sup></b>	<b>1.02</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>West Virginia</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>16,360</b>	<b>24</b>
Electric Utilities.....	11,698	22
Independent Power Producers & Combined Heat and Power.....	4,661	20
Net Generation (megawatthours).....	<b>70,782,514</b>	<b>21</b>
Electric Utilities.....	51,708,607	18
Independent Power Producers & Combined Heat and Power.....	19,073,907	16
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	167	13
Nitrogen Oxide.....	35	30
Carbon Dioxide.....	65,928	12
Sulfur Dioxide (lbs/MWh) .....	5.2	11
Nitrogen Oxide (lbs/MWh) .....	1.1	34
Carbon Dioxide (lbs/MWh).....	2,053	6
Total Retail Sales (megawatthours).....	<b>30,271,329</b>	<b>34</b>
Full Service Provider Sales (megawatthours) .....	30,271,329	33
Direct Use (megawatthours) .....	<b>371,391</b>	<b>36</b>
Average Retail Price (cents/kWh).....	<b>6.65</b>	<b>46</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>West Virginia</b>			
1. John E Amos.....	Coal	Appalachian Power Co	2,900
2. Harrison Power Station.....	Coal	Allegheny Energy Supply Co LLC	1,954
3. Mt Storm.....	Coal	Virginia Electric & Power Co	1,571
4. Mitchell.....	Coal	Ohio Power Co	1,560
5. Mountaineer .....	Coal	Appalachian Power Co	1,310
6. Pleasants Power Station.....	Coal	Allegheny Energy Supply Co LLC	1,288
7. Fort Martin Power Station .....	Coal	Monongahela Power Co	1,107
8. Philip Sporn .....	Coal	Appalachian Power Co	1,020
9. Kammer .....	Coal	Ohio Power Co	600
10. Ceredo Generating Station .....	Gas	Appalachian Power Co	450

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>West Virginia</b>						
1. Appalachian Power Co.....	Investor-Owned	14,696,862	5,739,991	3,695,018	5,261,853	-
2. Monongahela Power Co.....	Investor-Owned	10,022,115	3,532,786	2,663,299	3,821,958	4,072
3. The Potomac Edison Co.....	Investor-Owned	3,190,303	1,733,569	809,600	647,134	-
4. Wheeling Power Co.....	Investor-Owned	2,113,139	426,922	448,778	1,237,439	-
5. Harrison Rural Elec Assn, Inc.....	Cooperative	79,977	52,743	20,722	6,512	-
Total Sales, Top Five Providers.....		30,102,396	11,486,011	7,637,417	10,974,896	4,072
Percent of Total State Sales.....		99	99	99	100	100

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>West Virginia</b>										
<b>Electric Utilities.....</b>	<b>14,505</b>	<b>10,164</b>	<b>10,206</b>	<b>10,890</b>	<b>11,975</b>	<b>11,711</b>	<b>11,698</b>	<b>11,698</b>	<b>96.3</b>	<b>71.5</b>
Coal.....	14,395	10,108	10,108	10,118	11,225	11,186	11,174	11,174	95.6	68.3
Petroleum.....	12	12	12	12	12	12	11	11	0.1	0.1
Natural Gas.....	-	-	-	696	675	450	450	450	-	2.8
Hydroelectric.....	98	44	86	63	63	63	63	63	0.6	0.4
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>560</b>	<b>5,960</b>	<b>6,196</b>	<b>5,570</b>	<b>4,468</b>	<b>4,387</b>	<b>4,651</b>	<b>4,661</b>	<b>3.7</b>	<b>28.5</b>
Coal.....	384	4,608	4,615	4,615	3,520	3,529	3,529	3,539	2.6	21.6
Natural Gas.....	11	1,056	1,282	689	682	592	592	592	0.1	3.6
Other Gases <sup>1</sup> .....	25	95	95	-	-	-	-	-	0.2	-
Hydroelectric.....	140	135	138	201	201	200	201	201	0.9	1.2
Other Renewables <sup>2</sup> .....	-	66	66	66	66	66	330	330	-	2.0
<b>Total Electric Industry.....</b>	<b>15,065</b>	<b>16,124</b>	<b>16,402</b>	<b>16,460</b>	<b>16,443</b>	<b>16,099</b>	<b>16,350</b>	<b>16,360</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	14,779	14,716	14,723	14,733	14,745	14,715	14,703	14,713	98.1	89.9
Petroleum.....	12	12	12	12	12	12	11	11	0.1	0.1
Natural Gas.....	11	1,056	1,282	1,386	1,357	1,042	1,042	1,042	0.1	6.4
Other Gases <sup>1</sup> .....	25	95	95	-	-	-	-	-	0.2	-
Hydroelectric.....	238	179	224	264	264	264	264	264	1.6	1.6
Other Renewables <sup>2</sup> .....	-	66	66	66	66	66	330	330	-	2.0

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>West Virginia</b>										
<b>Electric Utilities.....</b>	<b>91,677,692</b>	<b>64,056,696</b>	<b>59,083,917</b>	<b>61,241,831</b>	<b>68,163,826</b>	<b>69,347,861</b>	<b>66,666,509</b>	<b>51,708,607</b>	<b>96.8</b>	<b>73.1</b>
Coal.....	91,151,804	63,499,194	58,508,159	60,581,576	67,391,989	68,602,182	66,023,240	50,946,969	96.3	72.0
Petroleum.....	186,081	210,060	231,515	173,196	132,400	177,140	137,195	157,453	0.2	0.2
Natural Gas.....	37,074	3,998	3,166	3,215	86,926	137,050	58,629	33,060	*	*
Hydroelectric.....	302,733	322,664	326,253	471,916	546,033	431,101	445,779	571,541	0.3	0.8
Other Renewables <sup>1</sup> .....	-	3,728	2,071	713	-	-	-390	-837	-	*
Other <sup>2</sup> .....	-	17,052	12,753	11,215	6,478	388	2,056	422	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,014,904</b>	<b>30,654,858</b>	<b>30,665,645</b>	<b>32,384,454</b>	<b>25,651,978</b>	<b>24,585,248</b>	<b>24,456,588</b>	<b>19,073,907</b>	<b>3.2</b>	<b>26.9</b>
Coal.....	2,177,422	28,969,789	29,076,439	30,835,427	24,081,332	23,264,083	23,090,240	17,132,931	2.3	24.2
Petroleum.....	6,909	37,837	36,043	50,097	42,486	22,779	4	11,865	*	*
Natural Gas.....	127,398	273,839	252,144	283,877	274,911	251,744	121,781	76,375	0.1	0.1
Other Gases <sup>3</sup> .....	75,458	169,782	147,802	85,511	52,797	55,676	50,251	35,868	0.1	0.1
Hydroelectric.....	627,522	1,033,367	992,026	975,650	1,026,400	823,296	802,258	1,074,386	0.7	1.5
Other Renewables <sup>1</sup> .....	-	170,242	161,191	153,892	174,053	167,588	391,910	742,439	-	1.0
Other <sup>2</sup> .....	195	-	-	-	-	83	143	43	*	*
<b>Total Electric Industry.....</b>	<b>94,692,596</b>	<b>94,711,554</b>	<b>89,749,562</b>	<b>93,626,285</b>	<b>93,815,804</b>	<b>93,933,109</b>	<b>91,123,097</b>	<b>70,782,514</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	93,329,226	92,468,983	87,584,598	91,417,003	91,473,321	91,866,265	89,113,480	68,079,900	98.6	96.2
Petroleum.....	192,990	247,897	267,558	223,293	174,886	199,919	137,199	169,318	0.2	0.2
Natural Gas.....	164,472	277,837	255,310	287,092	361,837	388,794	180,410	109,435	0.2	0.2
Other Gases <sup>3</sup> .....	75,458	169,782	147,802	85,511	52,797	55,676	50,251	35,868	0.1	0.1
Hydroelectric.....	930,255	1,356,031	1,318,279	1,447,566	1,572,433	1,254,397	1,248,037	1,645,927	1.0	2.3
Other Renewables <sup>1</sup> .....	-	173,970	163,262	154,605	174,053	167,588	391,520	741,602	-	1.0
Other <sup>2</sup> .....	195	17,052	12,753	11,215	6,478	471	2,199	465	*	*

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

<sup>3</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>West Virginia</b>								
Coal (cents per million Btu) .....	118	125	135	W	167	173	222	254
Average heat value (Btu per pound).....	12,361	12,166	12,061	11,976	11,967	12,046	11,897	11,959
Average sulfur Content (percent).....	1.84	1.69	1.75	1.78	1.79	2.04	2.00	2.13
Petroleum (cents per million Btu) <sup>1</sup> .....	463	725	785	959	W	W	W	W
Average heat value (Btu per gallon).....	139,100	140,526	140,943	141,667	143,471	143,817	135,557	137,855
Average sulfur Content (percent).....	0.13	0.24	0.15	0.62	0.86	0.55	0.13	0.09
Natural Gas (cents per million Btu).....	300	633	633	859	867	802	1,048	545
Average heat value (Btu per cubic foot).....	1,000	1,024	1,028	1,029	1,035	1,033	1,028	1,029

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>West Virginia</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	648	506	446	438	427	353	286	167
Petroleum.....	*	*	*	1	1	1	*	*
Natural Gas.....	*	*	*	*	*	*	-	-
Other Gases.....	8	*	*	*	*	*	*	*
Other <sup>1</sup> .....	-	*	*	*	*	*	*	*
Total.....	656	507	447	440	428	353	286	167
<b>Nitrogen Oxide .....</b>								
Coal.....	263	193	159	147	139	138	92	35
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	1	*	*	*	*	*	*	*
Other Gases.....	1	*	*	*	*	*	*	*
Other Renewables <sup>2</sup> .....	-	*	*	-	*	*	-	-
Other <sup>1</sup> .....	*	*	*	*	*	*	*	*
Total.....	266	194	160	148	140	139	92	35
<b>Carbon Dioxide .....</b>								
Coal.....	86,053 <sup>R</sup>	85,931 <sup>R</sup>	82,174 <sup>R</sup>	85,022 <sup>R</sup>	85,416 <sup>R</sup>	86,626 <sup>R</sup>	84,343 <sup>R</sup>	65,676
Petroleum.....	177	191	225	284	294	285	103	131
Natural Gas.....	551	418	586	446	335	356	162	120
Other <sup>1</sup> .....	-	15	13	12	8	*	2	1
Total.....	86,782 <sup>R</sup>	86,555 <sup>R</sup>	82,998 <sup>R</sup>	85,764 <sup>R</sup>	86,054 <sup>R</sup>	87,267 <sup>R</sup>	84,610 <sup>R</sup>	65,928

<sup>1</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>West Virginia</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	9,452	10,473	10,756	11,384	11,014	11,749	11,763	11,588	34.8	38.3
Commercial .....	6,473	7,136	7,217	7,452	7,377	7,769	7,716	7,694	23.8	25.4
Industrial .....	11,126	10,687	10,942	11,312	13,916	14,661	14,738	10,985	41.0	36.3
Other .....	92	NA	NA	NA	NA	NA	NA	NA	0.3	--
Transportation.....	NA	NA	4	4	4	4	4	4	--	*
All Sectors .....	27,144	28,297	28,919	30,152	32,312	34,184	34,221	30,271	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	593	654	670	706	700	791	831	916	42.9	45.5
Commercial .....	358	389	394	412	413	454	469	521	25.9	25.9
Industrial .....	423	408	419	435	516	580	620	576	30.6	28.6
Other .....	8	NA	NA	NA	NA	NA	NA	NA	0.6	--
Transportation.....	NA	NA	*	*	*	*	*	*	--	*
All Sectors .....	1,383	1,450	1,483	1,554	1,629	1,825	1,920	2,013	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.27	6.24	6.23	6.21	6.35	6.73	7.06	7.90	--	--
Commercial .....	5.53	5.45	5.46	5.53	5.59	5.85	6.08	6.77	--	--
Industrial .....	3.80	3.81	3.83	3.85	3.71	3.95	4.20	5.24	--	--
Other .....	9.10	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	NA	5.70	6.08	5.86	6.42	6.32	7.56	--	--
All Sectors .....	5.09	5.13	5.13	5.15	5.04	5.34	5.61	6.65	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

\* = 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 \*).

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>West Virginia</b>								
Number of Entities.....	7	2	NA	3	NA	NA	NA	12
Number of Retail Customers .....	1,000,960	3,526	NA	10,022	NA	NA	NA	1,014,508
Retail Sales (thousand megawatthours).....	30,082	67	NA	123	NA	NA	NA	30,271
Percentage of Retail Sales .....	99.37	0.22	--	0.41	--	--	--	100.00
Revenue from Retail Sales (million dollars) .....	1,991	5	NA	16	NA	NA	NA	2,013
Percentage of Revenue .....	98.93	0.27	--	0.80	--	--	--	100.00
Average Retail Price (cents/kWh).....	6.62	8.08	NA	13.14	NA	NA	NA	6.65

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."



**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>West Virginia</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	91,678	64,057	59,084	61,242	68,164	69,348	66,667	51,709
Independent Power Producers .....	892	28,429	28,498	30,556	23,959	23,058	23,138	17,700
Combined Heat and Power, Electric .....	435	446	465	467	470	417	411	413
<b>Electric Power Sector Generation Subtotal</b> .....	<b>93,005</b>	<b>92,932</b>	<b>88,047</b>	<b>92,265</b>	<b>92,593</b>	<b>92,823</b>	<b>90,216</b>	<b>69,822</b>
Combined Heat and Power, Industrial.....	1,688	1,780	1,703	1,361	1,223	1,110	907	960
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>1,688</b>	<b>1,780</b>	<b>1,703</b>	<b>1,361</b>	<b>1,223</b>	<b>1,110</b>	<b>907</b>	<b>960</b>
<b>Total Net Generation</b> .....	<b>94,693</b>	<b>94,712</b>	<b>89,750</b>	<b>93,626</b>	<b>93,816</b>	<b>93,933</b>	<b>91,123</b>	<b>70,783</b>
<b>Total Supply</b> .....	<b>94,693</b>	<b>94,712</b>	<b>89,750</b>	<b>93,626</b>	<b>93,816</b>	<b>93,933</b>	<b>91,123</b>	<b>70,783</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	27,144	28,275	28,919	30,131	32,312	34,184	34,221	30,271
Facility Direct Retail Sales <sup>1</sup> .....	-	22	-	22	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>27,144</b>	<b>28,297</b>	<b>28,919</b>	<b>30,152</b>	<b>32,312</b>	<b>34,184</b>	<b>34,221</b>	<b>30,271</b>
<b>Direct Use</b> .....	<b>1,763</b>	<b>1,816</b>	<b>1,818</b>	<b>1,360</b>	<b>1,391</b>	<b>544<sup>R</sup></b>	<b>521<sup>R</sup></b>	<b>371</b>
<b>Estimated Losses</b> .....	<b>1,968</b>	<b>1,740</b>	<b>1,795</b>	<b>2,582</b>	<b>3,002</b>	<b>3,280<sup>R</sup></b>	<b>3,313<sup>R</sup></b>	<b>2,536</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>63,818</b>	<b>62,858</b>	<b>57,217</b>	<b>59,532<sup>R</sup></b>	<b>57,111</b>	<b>55,925<sup>R</sup></b>	<b>53,068<sup>R</sup></b>	<b>37,604</b>
<b>Total Disposition</b> .....	<b>94,693<sup>R</sup></b>	<b>94,712<sup>R</sup></b>	<b>89,750<sup>R</sup></b>	<b>93,626<sup>R</sup></b>	<b>93,816<sup>R</sup></b>	<b>93,933<sup>R</sup></b>	<b>91,123<sup>R</sup></b>	<b>70,783</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>3.07</b>	<b>2.97</b>	<b>2.76</b>	<b>2.75</b>	<b>2.56</b>	<b>2.47<sup>R</sup></b>	<b>2.39<sup>R</sup></b>	<b>2.13</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Wisconsin</b>		
NERC Region(s).....		<b>MRO/RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>17,744</b>	<b>23</b>
Electric Utilities.....	12,998	19
Independent Power Producers & Combined Heat and Power.....	4,746	18
Net Generation (megawatthours).....	<b>59,959,060</b>	<b>24</b>
Electric Utilities.....	41,375,366	26
Independent Power Producers & Combined Heat and Power.....	18,583,695	17
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	139	14
Nitrogen Oxide .....	49	22
Carbon Dioxide.....	44,233	19
Sulfur Dioxide (lbs/MWh) .....	5.1	12
Nitrogen Oxide (lbs/MWh) .....	1.8	20
Carbon Dioxide (lbs/MWh).....	1,626	16
Total Retail Sales (megawatthours).....	<b>66,286,439</b>	<b>22</b>
Full Service Provider Sales (megawatthours) .....	66,286,439	21
Direct Use (megawatthours) .....	<b>2,200,039</b>	<b>14</b>
Average Retail Price (cents/kWh).....	<b>9.38</b>	<b>21</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Wisconsin</b>			
1. Pleasant Prairie .....	Coal	Wisconsin Electric Power Co	1,210
2. Port Washington Generating Station .....	Gas	Wisconsin Electric Power Co	1,150
3. South Oak Creek.....	Coal	Wisconsin Electric Power Co	1,135
4. Columbia .....	Coal	Wisconsin Power & Light Co	1,118
5. Weston .....	Coal	Wisconsin Public Service Corp	1,076
6. Point Beach Nuclear Plant.....	Nuclear	NextEra Energy Point Beach LLC	1,042
7. Edgewater .....	Coal	Wisconsin Power & Light Co	767
8. Riverside Energy Center.....	Gas	Rock River Energy LLC	598
9. Kewaunee .....	Nuclear	Dominion Energy Kewaunee Inc.	556
10. Fox Energy Center.....	Gas	GE Energy Services	548

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Wisconsin</b>						
1. Wisconsin Electric Power Co.....	Investor-Owned	23,573,840	7,781,413	8,577,786	7,214,641	-
2. Wisconsin Public Service Corp.....	Investor-Owned	10,146,658	2,706,591	3,829,994	3,610,073	-
3. Wisconsin Power & Light Co.....	Investor-Owned	9,858,145	3,419,166	2,319,401	4,119,578	-
4. Northern States Power Co - Wisconsin.....	Investor-Owned	6,003,534	1,837,816	2,622,318	1,543,400	-
5. Madison Gas & Electric Co.....	Investor-Owned	3,200,357	772,724	2,173,279	254,354	-
Total Sales, Top Five Providers.....		52,782,534	16,517,710	19,522,778	16,742,046	-
Percent of Total State Sales.....		80	77	87	75	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Wisconsin</b>										
<b>Electric Utilities.....</b>	<b>12,086</b>	<b>12,568</b>	<b>12,405</b>	<b>12,877</b>	<b>12,911</b>	<b>11,767</b>	<b>12,975</b>	<b>12,998</b>	<b>92.0</b>	<b>73.3</b>
Coal.....	7,164	7,123	6,856	6,855	6,879	6,746	7,266	7,188	54.5	40.5
Petroleum.....	1,089	783	759	771	764	810	847	847	8.3	4.8
Natural Gas.....	1,799	2,634	2,689	3,697	3,716	3,683	4,248	4,237	13.7	23.9
Nuclear.....	1,510	1,565	1,586	1,026	1,026	-	-	-	11.5	-
Hydroelectric.....	452	427	431	436	425	436	433	433	3.4	2.4
Other Renewables <sup>1</sup> .....	71	37	84	92	101	91	180	293	0.5	1.7
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,052</b>	<b>1,740</b>	<b>2,330</b>	<b>3,330</b>	<b>3,504</b>	<b>4,597</b>	<b>4,647</b>	<b>4,746</b>	<b>8.0</b>	<b>26.7</b>
Coal.....	448	316	277	291	184	199	331	331	3.4	1.9
Petroleum.....	3	3	3	18	117	139	26	26	*	0.1
Natural Gas.....	481	1,145	1,744	2,169	2,339	2,348	2,296	2,299	3.7	13.0
Nuclear.....	-	-	-	556	556	1,582	1,582	1,583	-	8.9
Hydroelectric.....	52	51	51	51	51	52	52	59	0.4	0.3
Other Renewables <sup>1</sup> .....	68	205	233	225	236	256	338	427	0.5	2.4
Other <sup>2</sup> .....	-	21	21	21	21	21	21	21	-	0.1
<b>Total Electric Industry.....</b>	<b>13,138</b>	<b>14,309</b>	<b>14,734</b>	<b>16,208</b>	<b>16,415</b>	<b>16,365</b>	<b>17,622</b>	<b>17,744</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	7,612	7,439	7,133	7,146	7,063	6,945	7,597	7,519	57.9	42.4
Petroleum.....	1,092	786	762	789	881	949	874	873	8.3	4.9
Natural Gas.....	2,281	3,779	4,433	5,866	6,056	6,032	6,544	6,536	17.4	36.8
Nuclear.....	1,510	1,565	1,586	1,582	1,582	1,582	1,582	1,583	11.5	8.9
Hydroelectric.....	504	478	482	487	476	488	485	492	3.8	2.8
Other Renewables <sup>1</sup> .....	140	241	317	318	337	348	518	720	1.1	4.1
Other <sup>2</sup> .....	-	21	21	21	21	21	21	21	-	0.1

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Wisconsin</b>										
<b>Electric Utilities.....</b>	<b>54,704,370</b>	<b>56,068,698</b>	<b>56,142,364</b>	<b>55,169,108</b>	<b>51,914,755</b>	<b>44,284,480</b>	<b>45,536,712</b>	<b>41,375,366</b>	<b>93.4</b>	<b>69.0</b>
Coal.....	39,899,142	40,579,973	40,981,609	40,506,086	38,866,178	38,719,363	40,452,933	36,238,643	68.2	60.4
Petroleum.....	220,944	185,625	494,535	470,219	591,486	725,019	647,602	458,848	0.4	0.8
Natural Gas.....	1,013,047	1,131,999	711,519	2,450,224	2,114,624	3,175,563	2,457,177	2,616,299	1.7	4.4
Nuclear.....	11,494,764	12,215,463	11,887,849	9,920,991	8,560,416	-	-	-	19.6	-
Hydroelectric.....	1,733,959	1,623,369	1,748,442	1,498,881	1,446,192	1,313,600	1,427,741	1,226,149	3.0	2.0
Other Renewables <sup>1</sup> .....	342,514	194,031	227,684	230,399	259,408	277,136	509,980	804,511	0.6	1.3
Other <sup>2</sup> .....	-	138,238	90,726	92,308	76,451	73,800	41,280	30,916	-	0.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,834,484</b>	<b>4,053,726</b>	<b>4,302,569</b>	<b>6,655,556</b>	<b>9,725,088</b>	<b>19,106,150</b>	<b>17,942,843</b>	<b>18,583,695</b>	<b>6.6</b>	<b>31.0</b>
Coal.....	1,232,412	1,137,243	1,166,567	1,223,227	1,250,312	1,308,887	1,252,928	1,041,351	2.1	1.7
Petroleum.....	320,478	287,162	301,084	276,291	285,700	288,395	283,558	253,603	0.5	0.4
Natural Gas.....	1,195,633	1,346,392	1,693,843	3,936,570	3,243,858	3,313,188	2,786,412	2,867,842	2.0	4.8
Nuclear.....	-	-	-	-	3,673,099	12,910,319	12,154,510	12,683,151	-	21.2
Hydroelectric.....	250,635	219,926	232,234	241,338	232,406	202,483	188,401	167,840	0.4	0.3
Other Renewables <sup>1</sup> .....	835,326	1,031,693	885,955	951,254	1,006,215	1,052,382	1,243,955	1,535,784	1.4	2.6
Other <sup>2</sup> .....	-	31,310	22,887	26,875	33,499	30,497	33,079	34,124	-	0.1
<b>Total Electric Industry.....</b>	<b>58,538,854</b>	<b>60,122,424</b>	<b>60,444,933</b>	<b>61,824,664</b>	<b>61,639,843</b>	<b>63,390,630</b>	<b>63,479,555</b>	<b>59,959,060</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	41,131,554	41,717,216	42,148,176	41,729,313	40,116,490	40,028,250	41,705,860	37,279,995	70.3	62.2
Petroleum.....	541,422	472,787	795,619	746,510	877,186	1,013,414	931,160	712,451	0.9	1.2
Natural Gas.....	2,208,680	2,478,391	2,405,362	6,386,794	5,358,482	6,488,750	5,243,589	5,484,140	3.8	9.1
Nuclear.....	11,494,764	12,215,463	11,887,849	9,920,991	12,233,515	12,910,319	12,154,510	12,683,151	19.6	21.2
Hydroelectric.....	1,984,594	1,843,295	1,980,676	1,740,219	1,678,598	1,516,083	1,616,142	1,393,988	3.4	2.3
Other Renewables <sup>1</sup> .....	1,177,840	1,225,724	1,113,639	1,181,653	1,265,623	1,329,518	1,753,935	2,340,295	2.0	3.9
Other <sup>2</sup> .....	-	169,548	113,612	119,183	109,950	104,297	74,358	65,040	-	0.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Wisconsin</b>								
Coal (cents per million Btu) .....	102	W	W	W	W	W	198	206
Average heat value (Btu per pound).....	9,115	9,006	9,030	9,088	8,975	8,967	9,025	8,920
Average sulfur Content (percent).....	0.39	0.38	0.39	0.38	0.36	0.36	0.37	0.38
Petroleum (cents per million Btu) <sup>1</sup> .....	81	W	W	W	W	W	356	W
Average heat value (Btu per gallon).....	73,869	134,343	135,093	135,238	134,333	134,845	136,126	134,033
Average sulfur Content (percent).....	5.15	5.35	5.45	5.33	5.36	5.49	4.99	5.37
Natural Gas (cents per million Btu).....	291	582	639	862	726	741	895	481
Average heat value (Btu per cubic foot).....	1,010	1,002	1,002	1,012	1,012	1,021	1,016	1,015

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.  
Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Wisconsin</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	208	215	195	193	185	157	153	122
Petroleum.....	18	9	21	14	15	15	14	13
Natural Gas.....	*	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	10	8	6	6	8	5	5	4
Other <sup>2</sup> .....	2	1	1	1	1	1	1	*
Total.....	237	232	223	214	208	177	172	139
<b>Nitrogen Oxide.....</b>								
Coal.....	105	83	78	70	65	58	54	38
Petroleum.....	3	2	3	2	2	2	2	2
Natural Gas.....	2	3	2	3	2	2	2	1
Other Renewables <sup>1</sup> .....	5	5	5 <sup>R</sup>	6	7	7	9	7
Other <sup>2</sup> .....	1	*	*	*	*	*	*	*
Total.....	116	93	89	81	77	70	67	49
<b>Carbon Dioxide.....</b>								
Coal.....	46,823 <sup>R</sup>	46,302 <sup>R</sup>	47,246 <sup>R</sup>	49,630 <sup>R</sup>	44,481 <sup>R</sup>	44,521 <sup>R</sup>	45,516 <sup>R</sup>	40,491
Petroleum.....	971	942	1,333	1,345	1,572	1,642	1,439	1,109
Natural Gas.....	1,782	1,763	1,913	3,723	2,826	3,324	2,575	2,577
Other <sup>2</sup> .....	4 <sup>R</sup>	178	141	104	119	104	63	56
Total.....	49,580 <sup>R</sup>	49,185 <sup>R</sup>	50,633 <sup>R</sup>	54,802 <sup>R</sup>	48,997 <sup>R</sup>	49,591 <sup>R</sup>	49,593 <sup>R</sup>	44,233

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Wisconsin</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	19,502	21,364	21,192	22,458	21,779	22,374	21,976	21,421	30.7	32.3
Commercial .....	17,638	20,056	19,349	22,501	22,756	23,491	23,473	22,476	27.8	33.9
Industrial .....	25,665	25,821	27,435	25,376	25,286	25,436	24,672	22,390	40.4	33.8
Other .....	743	NA	NA	NA	NA	NA	NA	NA	1.2	--
All Sectors .....	63,547	67,241	67,976	70,336	69,821	71,301	70,122	66,286	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	1,426	1,853	1,922	2,171	2,289	2,431	2,530	2,557	40.6	41.1
Commercial .....	1,037	1,397	1,401	1,726	1,905	2,047	2,177	2,150	29.5	34.6
Industrial.....	999	1,217	1,353	1,368	1,480	1,567	1,606	1,508	28.4	24.3
Other.....	53	NA	NA	NA	NA	NA	NA	NA	1.5	--
All Sectors .....	3,515	4,468	4,677	5,264	5,674	6,045	6,313	6,214	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	7.31	8.67	9.07	9.66	10.51	10.87	11.51	11.94	--	--
Commercial .....	5.88	6.97	7.24	7.67	8.37	8.71	9.28	9.57	--	--
Industrial.....	3.89	4.71	4.93	5.39	5.85	6.16	6.51	6.73	--	--
Other.....	7.11	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	5.53	6.64	6.88	7.48	8.13	8.48	9.00	9.38	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Wisconsin</b>								
Number of Entities.....	12	82	NA	24	NA	NA	NA	118
Number of Retail Customers .....	2,398,375	276,199	NA	255,954	NA	NA	NA	2,930,528
Retail Sales (thousand megawatthours).....	55,051	7,485	NA	3,750	NA	NA	NA	66,286
Percentage of Retail Sales .....	83.05	11.29	--	5.66	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	5,162	629	NA	423	NA	NA	NA	6,214
Percentage of Revenue .....	83.07	10.13	--	6.80	--	--	--	100.00
Average Retail Price (cents/kWh).....	9.38	8.41	NA	11.27	NA	NA	NA	9.38

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Wisconsin</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	54,704	56,069	56,142	55,169	51,915	44,284	45,537	41,375
Independent Power Producers .....	233	726	1,348	3,212	6,373	15,406	14,499	15,463
Combined Heat and Power, Electric .....	813	585	407	793	785	1,065	943	876
<b>Electric Power Sector Generation Subtotal</b> .....	<b>55,751</b>	<b>57,380</b>	<b>57,897</b>	<b>59,174</b>	<b>59,073</b>	<b>60,756</b>	<b>60,979</b>	<b>57,714</b>
Combined Heat and Power, Commercial .....	152	132	163	164	110	126	171	184
Combined Heat and Power, Industrial .....	2,636	2,611	2,384	2,487	2,457	2,509	2,329	2,061
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>2,788</b>	<b>2,742</b>	<b>2,548</b>	<b>2,651</b>	<b>2,567</b>	<b>2,635</b>	<b>2,501</b>	<b>2,245</b>
<b>Total Net Generation</b> .....	<b>58,539</b>	<b>60,122</b>	<b>60,445</b>	<b>61,825</b>	<b>61,640</b>	<b>63,391</b>	<b>63,480</b>	<b>59,959</b>
<b>Total International Imports</b> .....	<b>403</b>	<b>1</b>	<b>-</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>-</b>	<b>-</b>
<b>Total Supply</b> .....	<b>58,941</b>	<b>60,123</b>	<b>60,445</b>	<b>61,825</b>	<b>61,640</b>	<b>63,391</b>	<b>63,480</b>	<b>59,959</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	63,547	67,178	67,905	70,334	69,819	71,301	70,122	66,286
Facility Direct Retail Sales <sup>1</sup> .....	-	63	70	2	2	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>63,547</b>	<b>67,241</b>	<b>67,976</b>	<b>70,336</b>	<b>69,821</b>	<b>71,301</b>	<b>70,122</b>	<b>66,286</b>
<b>Direct Use</b> .....	<b>2,767</b>	<b>2,756</b>	<b>2,759</b>	<b>4,087</b>	<b>3,587</b>	<b>2,554<sup>R</sup></b>	<b>2,467<sup>R</sup></b>	<b>2,200</b>
<b>Total International Exports</b> .....	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>*</b>	<b>-</b>
<b>Estimated Losses</b> .....	<b>4,606</b>	<b>3,398<sup>R</sup></b>	<b>4,440</b>	<b>4,106<sup>R</sup></b>	<b>3,544</b>	<b>4,733<sup>R</sup></b>	<b>4,564<sup>R</sup></b>	<b>3,625</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>-11,983</b>	<b>-13,272</b>	<b>-14,730</b>	<b>-16,704<sup>R</sup></b>	<b>-15,312</b>	<b>-15,198<sup>R</sup></b>	<b>-13,674<sup>R</sup></b>	<b>-12,153</b>
<b>Total Disposition</b> .....	<b>58,941<sup>R</sup></b>	<b>60,123<sup>R</sup></b>	<b>60,445<sup>R</sup></b>	<b>61,825<sup>R</sup></b>	<b>61,640<sup>R</sup></b>	<b>63,391<sup>R</sup></b>	<b>63,480<sup>R</sup></b>	<b>59,959</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>0.83</b>	<b>0.82</b>	<b>0.80</b>	<b>0.79</b>	<b>0.80</b>	<b>0.81<sup>R</sup></b>	<b>0.82<sup>R</sup></b>	<b>0.83</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	U.S. Rank
<b>Wyoming</b>		
NERC Region(s).....		WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	7,566	38
Electric Utilities.....	6,713	31
Independent Power Producers & Combined Heat and Power.....	853	42
Net Generation (megawatthours).....	46,029,212	32
Electric Utilities.....	43,182,207	23
Independent Power Producers & Combined Heat and Power.....	2,847,005	40
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	76	23
Nitrogen Oxide .....	66	14
Carbon Dioxide.....	44,684	18
Sulfur Dioxide (lbs/MWh) .....	3.6	20
Nitrogen Oxide (lbs/MWh) .....	3.2	7
Carbon Dioxide (lbs/MWh).....	2,140	2
Total Retail Sales (megawatthours).....	16,561,937	40
Full Service Provider Sales (megawatthours) .....	16,561,937	40
Direct Use (megawatthours) .....	970,224	26
Average Retail Price (cents/kWh).....	6.08	51

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Wyoming</b>			
1. Jim Bridger .....	Coal	PacifiCorp	2,117
2. Laramie River Station.....	Coal	Basin Electric Power Coop	1,705
3. Dave Johnston.....	Coal	PacifiCorp	762
4. Naughton .....	Coal	PacifiCorp	700
5. Wyodak.....	Coal	PacifiCorp	335
6. Wyoming Wind Energy Center.....	Other Renewables	FPL Energy Wyoming Wind LLC	144
7. Glenrock .....	Other Renewables	PacifiCorp	138
8. Seven Mile Hill.....	Other Renewables	PacifiCorp	124
9. Neil Simpson II.....	Coal	Black Hills Power Inc	114
10. Rolling Hills .....	Other Renewables	PacifiCorp	99
10. Campbell Hill Windpower .....	Other Renewables	Duke Energy DEGS Campbell Hill	99
10. High Plains .....	Other Renewables	PacifiCorp	99

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."



**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. PacifiCorp.....	Investor-Owned	9,202,006	1,053,271	1,493,372	6,655,363	-
2. Powder River Energy Corporation .....	Cooperative	2,894,440	215,616	1,194,765	1,484,059	-
3. Cheyenne Light Fuel & Power Co .....	Investor-Owned	1,016,105	255,131	586,182	174,792	-
4. High Plains Power Inc .....	Cooperative	968,418	145,090	57,350	765,978	-
5. Lower Valley Energy Inc .....	Cooperative	645,165	380,877	228,475	35,813	-
Total Sales, Top Five Providers .....		14,726,134	2,049,985	3,560,144	9,116,005	-
Percent of Total State Sales .....		89	75	83	95	-

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Electric Utilities.....</b>	<b>6,011</b>	<b>6,088</b>	<b>6,086</b>	<b>6,241</b>	<b>6,137</b>	<b>6,142</b>	<b>6,450</b>	<b>6,713</b>	<b>98.4</b>	<b>88.7</b>
Coal.....	5,709	5,692	5,692	5,817	5,747	5,747	5,832	5,829	93.4	77.0
Petroleum.....	-	5	5	-	-	5	5	5	-	0.1
Natural Gas .....	-	85	80	113	79	79	79	79	-	1.0
Hydroelectric .....	298	300	303	303	303	303	303	304	4.9	4.0
Other Renewables <sup>1</sup> .....	5	6	6	9	9	9	231	497	0.1	6.6
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>98</b>	<b>474</b>	<b>473</b>	<b>465</b>	<b>569</b>	<b>525</b>	<b>695</b>	<b>853</b>	<b>1.6</b>	<b>11.3</b>
Coal.....	28	100	100	30	100	100	100	100	0.5	1.3
Petroleum.....	1	4	2	6	6	2	2	2	*	*
Natural Gas .....	51	92	81	47	81	41	41	41	0.8	0.5
Other Gases <sup>2</sup> .....	2	-	-	92	92	92	92	92	*	1.2
Other Renewables <sup>1</sup> .....	5	279	279	279	279	279	449	607	0.1	8.0
Other <sup>3</sup> .....	11	-	12	12	12	12	12	12	0.2	0.2
<b>Total Electric Industry.....</b>	<b>6,109</b>	<b>6,562</b>	<b>6,558</b>	<b>6,707</b>	<b>6,707</b>	<b>6,667</b>	<b>7,145</b>	<b>7,566</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,737	5,792	5,792	5,847	5,847	5,847	5,932	5,929	93.9	78.4
Petroleum.....	1	8	6	6	6	7	7	7	*	0.1
Natural Gas .....	51	177	161	160	160	120	120	120	0.8	1.6
Other Gases <sup>2</sup> .....	2	-	-	92	92	92	92	92	*	1.2
Hydroelectric .....	298	300	303	303	303	303	303	304	4.9	4.0
Other Renewables <sup>1</sup> .....	10	285	285	287	287	287	680	1,104	0.2	14.6
Other <sup>3</sup> .....	11	-	12	12	12	12	12	12	0.2	0.2

<sup>1</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Wyoming</b>										
<b>Electric Utilities.....</b>	<b>42,951,057</b>	<b>42,261,405</b>	<b>43,059,537</b>	<b>44,031,568</b>	<b>42,905,244</b>	<b>43,144,350</b>	<b>43,909,400</b>	<b>43,182,207</b>	<b>98.4</b>	<b>93.8</b>
Coal.....	41,718,548	41,490,825	42,372,775	43,112,061	41,948,761	42,204,359	42,900,080	41,040,274	95.6	89.2
Petroleum.....	46,197	41,567	43,450	40,311	44,240	46,116	43,765	49,958	0.1	0.1
Natural Gas.....	16,087	119,729	35,207	55,805	48,492	147,571	85,459	95,392	*	0.2
Hydroelectric.....	1,170,225	593,555	593,147	808,375	843,316	729,424	835,275	966,572	2.7	2.1
Other Renewables <sup>1</sup> .....	-	15,729	14,958	15,016	20,435	16,880	44,821	1,030,012	-	2.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>681,434</b>	<b>1,365,197</b>	<b>1,748,067</b>	<b>1,535,739</b>	<b>2,495,126</b>	<b>2,489,136</b>	<b>2,591,048</b>	<b>2,847,005</b>	<b>1.6</b>	<b>6.2</b>
Coal.....	220,524	850,627	972,965	233,615	943,066	922,450	907,823	913,993	0.5	2.0
Petroleum.....	2,502	3,354	2,409	1,994	1,697	1,106	262	223	*	*
Natural Gas.....	363,537	160,467	51,690	269,176	452,778	446,455	409,219	392,622	0.8	0.9
Other Gases <sup>2</sup> .....	9,656	-	12,746	263,586	309,927	312,091	288,645	284,361	*	0.6
Other Renewables <sup>1</sup> .....	11,150	350,749	601,557	702,248	738,626	738,001	917,721	1,196,193	*	2.6
Other <sup>3</sup> .....	74,065	-	106,700	65,120	49,032	69,034	67,377	59,613	0.2	0.1
<b>Total Electric Industry.....</b>	<b>43,632,491</b>	<b>43,626,602</b>	<b>44,807,604</b>	<b>45,567,307</b>	<b>45,400,370</b>	<b>45,633,486</b>	<b>46,500,448</b>	<b>46,029,212</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	41,939,072	42,341,452	43,345,740	43,345,676	42,891,827	43,126,809	43,807,903	41,954,266	96.1	91.1
Petroleum.....	48,699	44,921	45,859	42,305	45,937	47,222	44,027	50,181	0.1	0.1
Natural Gas.....	379,624	280,196	86,897	324,981	501,270	594,026	494,679	488,014	0.9	1.1
Other Gases <sup>2</sup> .....	9,656	-	12,746	263,586	309,927	312,091	288,645	284,361	*	0.6
Hydroelectric.....	1,170,225	593,555	593,147	808,375	843,316	729,424	835,275	966,572	2.7	2.1
Other Renewables <sup>1</sup> .....	11,150	366,478	616,515	717,264	759,061	754,881	962,542	2,226,205	*	4.8
Other <sup>3</sup> .....	74,065	-	106,700	65,120	49,032	69,034	67,377	59,613	0.2	0.1

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>2</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>Wyoming</b>								
Coal (cents per million Btu) .....	76	82	87	95	W	W	W	W
Average heat value (Btu per pound).....	8,784	8,826	8,826	8,814	8,708	8,684	8,769	8,791
Average sulfur Content (percent).....	0.51	0.49	0.48	0.49	0.51	0.49	0.51	0.51
Petroleum (cents per million Btu) <sup>1</sup> .....	476	714	950	1,317	1,628	1,772	W	W
Average heat value (Btu per gallon).....	139,102	139,593	139,338	139,638	139,333	139,448	139,926	139,824
Average sulfur Content (percent).....	0.31	0.30	0.31	0.30	0.32	0.31	0.24	0.24
Natural Gas (cents per million Btu).....	372	W	341	553	W	W	423	299
Average heat value (Btu per cubic foot).....	1,044	997	1,060	1,048	983	988	985	987

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009 (Thousand Metric Tons)**

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>Wyoming</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	97	84	84	87	84	83	83	76
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	-	-	*	*	*	*
Other Gases.....	*	-	-	-	*	*	*	*
Total.....	97	84	85	88	84	83	83	76
<b>Nitrogen Oxide .....</b>								
Coal.....	89	79	86	82	78	73	70	63
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	1	*	*	*	1	1	1	1
Other Gases.....	*	-	*	*	2	2	1	2
Other <sup>1</sup> .....	*	-	-	*	*	*	*	*
Total.....	90	79	86	82	82	77	73	66
<b>Carbon Dioxide .....</b>								
Coal.....	44,565 <sup>R</sup>	45,895 <sup>R</sup>	46,541 <sup>R</sup>	45,741 <sup>R</sup>	45,453 <sup>R</sup>	45,890 <sup>R</sup>	46,422 <sup>R</sup>	44,182
Petroleum.....	80	40	78	71	70	56	39	42
Natural Gas.....	291	175	164	392	460	536	376	460
Total.....	44,936 <sup>R</sup>	46,109 <sup>R</sup>	46,783 <sup>R</sup>	46,203 <sup>R</sup>	45,984 <sup>R</sup>	46,481 <sup>R</sup>	46,837 <sup>R</sup>	44,684

<sup>1</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>Wyoming</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	2,025	2,286	2,262	2,377	2,468	2,592	2,719	2,720	17.2	16.4
Commercial .....	2,514	3,282	3,393	3,754	4,117	4,214	4,411	4,288	21.3	25.9
Industrial .....	7,065	7,685	7,884	8,007	8,362	8,730	9,560	9,554	60.0	57.7
Other .....	178	NA	NA	NA	NA	NA	NA	NA	1.5	--
All Sectors .....	11,782	13,254	13,540	14,138	14,947	15,536	16,690	16,562	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	128	161	163	178	191	201	223	233	25.4	23.2
Commercial .....	133	189	203	232	258	263	296	312	26.2	31.0
Industrial .....	236	281	308	319	338	358	428	462	46.6	45.8
Other .....	9	NA	NA	NA	NA	NA	NA	NA	1.9	--
All Sectors .....	506	630	674	729	788	823	947	1,007	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	6.34	7.04	7.21	7.48	7.75	7.75	8.21	8.58	--	--
Commercial .....	5.28	5.74	5.98	6.17	6.28	6.25	6.71	7.28	--	--
Industrial .....	3.34	3.65	3.91	3.99	4.04	4.10	4.47	4.83	--	--
Other .....	5.27	NA	NA	NA	NA	NA	NA	NA	--	--
All Sectors .....	4.30	4.76	4.98	5.16	5.27	5.29	5.67	6.08	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Wyoming</b>								
Number of Entities.....	5	13	1	17	NA	NA	NA	36
Number of Retail Customers .....	191,784	33,586	7	98,288	NA	NA	NA	323,665
Retail Sales (thousand megawatthours).....	10,686	630	33	5,214	NA	NA	NA	16,562
Percentage of Retail Sales .....	64.52	3.80	0.20	31.48	--	--	--	100.00
Revenue from Retail Sales (million dollars).....	631	49	1	327	NA	NA	NA	1,007
Percentage of Revenue .....	62.61	4.86	0.07	32.46	--	--	--	100.00
Average Retail Price (cents/kWh).....	5.90	7.77	2.16	6.27	NA	NA	NA	6.08

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>Wyoming</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	42,951	42,261	43,060	44,032	42,905	43,144	43,909	43,182
Independent Power Producers .....	11	1,052	1,350	702	1,484	1,465	1,627	1,918
<b>Electric Power Sector Generation Subtotal</b> .....	<b>42,962</b>	<b>43,314</b>	<b>44,410</b>	<b>44,734</b>	<b>44,389</b>	<b>44,610</b>	<b>45,537</b>	<b>45,100</b>
Combined Heat and Power, Industrial.....	670	313	398	833	1,012	1,024	964	929
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>670</b>	<b>313</b>	<b>398</b>	<b>833</b>	<b>1,012</b>	<b>1,024</b>	<b>964</b>	<b>929</b>
<b>Total Net Generation</b> .....	<b>43,632</b>	<b>43,627</b>	<b>44,808</b>	<b>45,567</b>	<b>45,400</b>	<b>45,633</b>	<b>46,500</b>	<b>46,029</b>
<b>Total International Imports</b> .....	-	29	19	48	28	32	23	9
<b>Total Supply</b> .....	<b>43,632</b>	<b>43,655</b>	<b>44,827</b>	<b>45,615</b>	<b>45,428</b>	<b>45,666</b>	<b>46,523</b>	<b>46,038</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	11,782	13,251	13,540	14,138	14,947	15,536	16,690	16,562
Facility Direct Retail Sales <sup>1</sup> .....	-	3	-	-	-	-	-	-
<b>Total Electric Industry Retail Sales</b> .....	<b>11,782</b>	<b>13,254</b>	<b>13,540</b>	<b>14,138</b>	<b>14,947</b>	<b>15,536</b>	<b>16,690</b>	<b>16,562</b>
<b>Direct Use</b> .....	<b>670</b>	<b>662</b>	<b>662</b>	<b>350</b>	<b>1,217</b>	<b>1,034</b>	<b>1,001</b>	<b>970</b>
<b>Total International Exports</b> .....	-	-	75	145	75	87	64	45
<b>Estimated Losses</b> .....	<b>854</b>	<b>791</b>	<b>1,005</b>	<b>1,110</b>	<b>1,224</b>	<b>1,351<sup>R</sup></b>	<b>1,488<sup>R</sup></b>	<b>1,325</b>
<b>Net Interstate Trade</b> <sup>2</sup> .....	<b>30,326</b>	<b>28,949</b>	<b>29,545</b>	<b>29,872</b>	<b>27,966</b>	<b>27,659<sup>R</sup></b>	<b>27,279<sup>R</sup></b>	<b>27,136</b>
<b>Total Disposition</b> .....	<b>43,632<sup>R</sup></b>	<b>43,655<sup>R</sup></b>	<b>44,827<sup>R</sup></b>	<b>45,615<sup>R</sup></b>	<b>45,428<sup>R</sup></b>	<b>45,666<sup>R</sup></b>	<b>46,523<sup>R</sup></b>	<b>46,038</b>
<b>Net Trade Index (ratio)</b> <sup>3</sup> .....	<b>3.28</b>	<b>2.97</b>	<b>2.93</b>	<b>2.90</b>	<b>2.60</b>	<b>2.54<sup>R</sup></b>	<b>2.42<sup>R</sup></b>	<b>2.44</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

<sup>2</sup> Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

<sup>3</sup> Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table 1. 2009 Summary Statistics**

Item	Value	Highest	Lowest
<b>United States</b>			
<b>Primary Energy Source</b> .....	<b>Coal</b>		
<b>Net Summer Capacity (megawatts)</b> .....	<b>1,025,400</b>	<b>Texas</b>	<b>District of Columbia</b>
Electric Utilities .....	596,769	Florida	Rhode Island
Independent Power Producers & Combined Heat and Power.....	428,631	Texas	Nebraska
<b>Net Generation (megawatthours)</b> .....	<b>3,950,330,926</b>	<b>Texas</b>	<b>District of Columbia</b>
Electric Utilities .....	2,372,775,997	Florida	New Jersey
Independent Power Producers & Combined Heat and Power.....	1,577,554,930	Texas	District of Columbia
<b>Emissions (thousand metric tons)</b> .....			
Sulfur Dioxide .....	5,970	Ohio	Vermont
Nitrogen Oxide .....	2,395	Texas	District of Columbia
Carbon Dioxide.....	2,269,508	Texas	Vermont
Sulfur Dioxide (lbs/MWh) .....	3.3	District of Columbia	Vermont
Nitrogen Oxide (lbs/MWh) .....	1.3	District of Columbia	Vermont
Carbon Dioxide (lbs/MWh).....	1,267	District of Columbia	Vermont
<b>Total Retail Sales (megawatthours)</b> .....	<b>3,596,864,866</b>	<b>Texas</b>	<b>Vermont</b>
Full Service Provider Sales (megawatthours) .....	3,301,639,142	Texas	Maine
Energy-Only Provider Sales (megawatthours).....	295,225,724	Illinois	Virginia
<b>Direct Use (megawatthours)</b> .....	<b>126,937,958</b>	<b>Texas</b>	<b>District of Columbia</b>
<b>Average Retail Price (cents/kWh)</b> .....	<b>9.82</b>	<b>Hawaii</b>	<b>Wyoming</b>

MWh = Megawatthours.

kWh = Kilowatthours.

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

**Table 2. Ten Largest Plants by Generating Capacity, 2009**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>United States</b>			
1. Grand Coulee.....	Hydroelectric	U S Bureau of Reclamation	7,079
2. Palo Verde .....	Nuclear	Arizona Public Service Co	3,942
3. Martin .....	Gas	Florida Power & Light Co	3,814
4. W A Parish.....	Coal	NRG Texas Power LLC	3,664
5. Scherer .....	Coal	Georgia Power Co	3,400
6. Turkey Point .....	Nuclear	Florida Power & Light Co	3,330
7. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,274
8. Bowen.....	Coal	Georgia Power Co	3,214
9. Crystal River.....	Coal	Progress Energy Florida Inc	3,150
10. Gibson.....	Coal	Duke Energy Indiana Inc	3,131

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2009**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
<b>United States</b>						
1. Florida Power & Light Co.....	Investor-Owned	102,762,272	53,953,573	45,483,666	3,245,099	79,934
2. Georgia Power Co.....	Investor-Owned	81,346,510	26,272,226	33,084,812	21,810,063	179,409
3. Pacific Gas & Electric Co.....	Investor-Owned	79,984,862	31,202,173	36,861,612	11,921,077	-
4. Southern California Edison Co.....	Investor-Owned	78,048,186	29,981,975	39,981,217	8,020,124	64,870
5. Virginia Electric & Power Co.....	Investor-Owned	77,753,563	29,919,049	38,997,248	8,643,852	193,414
Total Sales, Top Five Providers.....		419,895,393	171,328,996	194,408,555	53,640,215	517,627
Percent of Total U.S. Sales.....		12	13	15	6	7

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatts)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>United States</b>										
<b>Electric Utilities.....</b>	<b>639,324</b>	<b>547,249</b>	<b>550,550</b>	<b>556,235</b>	<b>567,523</b>	<b>571,200</b>	<b>584,908</b>	<b>596,769</b>	<b>81.3</b>	<b>58.2</b>
Coal.....	277,780	236,473	235,976	229,705	230,644	231,289	231,857	234,397	35.3	22.9
Petroleum.....	49,020	32,570	31,415	30,867	30,419	29,115	30,657	30,174	6.2	2.9
Natural Gas.....	123,192	125,612	131,734	147,752	157,742	162,756	173,106	180,571	15.7	17.6
Other Gases <sup>1</sup> .....	220	61	58	-	104	104	-	-	*	-
Nuclear.....	95,030	60,964	60,651	56,564	56,143	54,211	54,376	54,355	12.1	5.3
Hydroelectric.....	74,122	72,827	71,696	71,568	71,840	72,186	72,142	72,690	9.4	7.1
Other Renewables <sup>2</sup> .....	790	925	960	1,545	2,291	2,806	4,066	5,614	0.1	0.5
Pumped Storage.....	18,945	17,803	18,048	18,195	18,301	18,693	18,664	18,930	2.4	1.8
Other <sup>3</sup> .....	224	13	13	39	39	39	39	39	*	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>146,603</b>	<b>401,198</b>	<b>412,392</b>	<b>421,785</b>	<b>418,692</b>	<b>423,688</b>	<b>425,263</b>	<b>428,631</b>	<b>18.7</b>	<b>41.8</b>
Coal.....	37,716	76,546	77,044	83,675	82,312	81,449	81,464	79,898	4.8	7.8
Petroleum.....	11,049	28,160	27,704	27,681	27,679	26,952	26,788	26,606	1.4	2.6
Natural Gas.....	71,926	229,829	239,277	235,309	230,552	230,120	224,354 <sup>R</sup>	220,701	9.2	21.5
Other Gases <sup>1</sup> .....	1,689	1,933	2,238	2,063	2,152	2,209	1,995	1,932	0.2	0.2
Nuclear.....	2,381	38,244	38,978	43,424	44,190	46,055	46,379	46,649	0.3	4.5
Hydroelectric.....	5,271	5,867	5,945	5,973	5,981	5,698	5,788	5,828	0.7	0.6
Other Renewables <sup>2</sup> .....	15,151	17,228	17,756	19,660	21,822	27,263	34,400 <sup>R</sup>	42,938	1.9	4.2
Pumped Storage.....	620	2,719	2,717	3,152	3,160	3,193	3,193	3,230	0.1	0.3
Other <sup>3</sup> .....	799	671	733	848	843	749	903	849	0.1	0.1
<b>Total Electric Industry.....</b>	<b>785,927</b>	<b>948,446</b>	<b>962,942</b>	<b>978,020</b>	<b>986,215</b>	<b>994,888</b>	<b>1,010,171</b>	<b>1,025,400</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	315,496	313,019	313,020	313,380	312,956	312,738	313,322	314,294	40.1	30.7
Petroleum.....	60,069	60,730	59,119	58,548	58,097	56,068	57,445	56,781	7.6	5.5
Natural Gas.....	195,119	355,442	371,011	383,061	388,294	392,876	397,460 <sup>R</sup>	401,272	24.8	39.1
Other Gases <sup>1</sup> .....	1,909	1,994	2,296	2,063	2,256	2,313	1,995	1,932	0.2	0.2
Nuclear.....	97,411	99,209	99,628	99,988	100,334	100,266	100,755	101,004	12.4	9.9
Hydroelectric.....	79,393	78,694	77,641	77,541	77,821	77,885	77,930	78,518	10.1	7.7
Other Renewables <sup>2</sup> .....	15,942	18,153	18,717	21,205	24,113	30,069	38,466 <sup>R</sup>	48,552	2.0	4.7
Pumped Storage.....	19,565	20,522	20,764	21,347	21,461	21,886	21,858	22,160	2.5	2.2
Other <sup>3</sup> .....	1,023	684	746	887	882	788	942	888	0.1	0.1

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1999 and 2003 Through 2009**  
(Megawatthours)

Energy Source	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>United States</b>										
<b>Electric Utilities.....</b>	<b>3,173,673,550</b>	<b>2,462,280,615</b>	<b>2,505,231,152</b>	<b>2,474,845,558</b>	<b>2,483,655,548</b>	<b>2,504,130,899</b>	<b>2,475,366,697</b>	<b>2,372,775,997</b>	<b>85.9</b>	<b>60.1</b>
Coal.....	1,767,679,446	1,500,281,112	1,513,640,806	1,484,855,188	1,471,421,060	1,490,984,698	1,466,395,192	1,322,092,036	47.8	33.5
Petroleum.....	86,929,098	69,930,457	73,693,695	69,722,196	40,902,849	40,719,414	28,123,785	25,216,814	2.4	0.6
Natural Gas.....	296,381,322	186,966,798	199,662,043	238,203,738	282,088,323	313,785,128	320,189,965	349,166,308	8.0	8.8
Other Gases <sup>1</sup> .....	-	242,655	374,012	9,810	30,300	141,031	45,941	96,019	-	*
Nuclear.....	725,036,130	458,828,821	475,682,277	436,296,037	425,341,428	427,555,339	424,256,336	417,275,115	19.6	10.6
Hydroelectric.....	299,913,955	249,621,997	245,545,963	245,553,417	261,863,602	226,733,688	229,644,880	247,197,556	8.1	6.3
Other Renewables <sup>2</sup> .....	3,715,971	3,421,334	3,691,830	4,945,386	6,588,379	8,953,385	11,307,993	14,617,484	0.1	0.4
Pumped Storage.....	-5,982,372	-7,531,885	-7,526,206	-5,383,451	-5,280,767	-5,327,595	-5,142,691	-3,368,583	-0.2	-0.1
Other <sup>3</sup> .....	-	519,327	466,733	643,237	700,374	585,811	545,295	483,248	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>521,136,260</b>	<b>1,420,904,589</b>	<b>1,465,324,111</b>	<b>1,580,577,191</b>	<b>1,581,046,679</b>	<b>1,652,613,825</b>	<b>1,644,021,063</b>	<b>1,577,554,930</b>	<b>14.1</b>	<b>39.9</b>
Coal.....	113,407,778	473,455,638	464,659,744	528,017,858	519,090,075	525,470,885	519,406,055	433,812,217	3.1	11.0
Petroleum.....	31,131,740	49,475,184	47,451,362	52,502,821	23,263,565	25,019,564	18,118,827	13,719,700	0.8	0.3
Natural Gas.....	260,014,805	462,940,744	510,437,974	522,756,516	534,352,447	582,804,663	562,790,634	571,812,372	7.0	14.5
Other Gases <sup>1</sup> .....	14,125,592	15,357,365	14,878,419	13,454,334	14,146,508	13,312,323	11,660,934	10,536,088	0.4	0.3
Nuclear.....	3,217,994	304,903,874	312,846,110	345,690,328	361,877,208	378,869,414	381,952,099	381,579,470	0.1	9.7
Hydroelectric.....	19,622,074	26,184,330	22,871,346	24,767,838	27,382,814	20,776,286	25,186,505	26,247,538	0.5	0.7
Other Renewables <sup>2</sup> .....	75,707,031	76,065,455	79,375,493	82,384,012	89,937,113	96,284,126	114,793,010 <sup>R</sup>	129,661,220	2.0	3.3
Pumped Storage.....	-114,527	-1,003,180	-962,004	-1,174,337	-1,277,075	-1,568,757	-1,145,371	-1,258,762	*	*
Other <sup>3</sup> .....	4,023,773	13,525,180	13,765,668	12,177,822	12,274,025	11,645,320	11,258,369 <sup>R</sup>	11,445,086	0.1	0.3
<b>Total Electric Industry.....</b>	<b>3,694,809,810</b>	<b>3,883,185,204</b>	<b>3,970,555,263</b>	<b>4,055,422,750</b>	<b>4,064,702,227</b>	<b>4,156,744,724</b>	<b>4,119,387,760</b>	<b>3,950,330,926</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,881,087,224	1,973,736,750	1,978,300,549	2,012,873,046	1,990,511,135	2,016,455,584	1,985,801,247	1,755,904,253	50.9	44.4
Petroleum.....	118,060,838	119,405,641	121,145,057	122,225,017	64,166,414	65,738,978	46,242,612	38,936,515	3.2	1.0
Natural Gas.....	556,396,127	649,907,542	710,100,017	760,960,254	816,440,770	896,589,791	882,980,599	920,978,681	15.1	23.3
Other Gases <sup>1</sup> .....	14,125,592	15,600,020	15,252,431	13,464,144	14,176,808	13,453,354	11,706,876	10,632,107	0.4	0.3
Nuclear.....	728,254,124	763,732,695	788,528,387	781,986,365	787,218,636	806,424,753	806,208,435	798,854,585	19.7	20.2
Hydroelectric.....	319,536,029	275,806,327	268,417,308	270,321,255	289,246,416	247,509,974	254,831,385	273,445,094	8.6	6.9
Other Renewables <sup>2</sup> .....	79,423,002	79,486,789	83,067,323	87,329,398	96,525,493	105,237,511	126,101,003 <sup>R</sup>	144,278,703	2.1	3.7
Pumped Storage.....	-6,096,899	-8,535,065	-8,488,210	-6,557,788	-6,557,842	-6,896,352	-6,288,062	-4,627,345	-0.2	-0.1
Other <sup>3</sup> .....	4,023,773	14,044,507	14,232,402	12,821,059	12,974,399	12,231,131	11,803,665 <sup>R</sup>	11,928,334	0.1	0.3

<sup>1</sup> Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>2</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

<sup>3</sup> Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

R = Revised.

\* = 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 \*).

- (dash) = Data not available.

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

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.



**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1999 and 2003 Through 2009**

Fuel, Quality	1999	2003	2004	2005	2006	2007	2008	2009
<b>United States</b>								
Coal (cents per million Btu) .....	122	128	136	154	169	177	207	221
Average heat value (Btu per pound).....	10,163	10,137	10,074	10,107	10,063	10,028	9,947	9,902
Average sulfur Content (percent).....	1.01	0.97	0.97	0.98	0.97	0.96	0.97	1.01
Petroleum (cents per million Btu) <sup>1</sup> .....	236	433	429	644	623	717	1,087	702
Average heat value (Btu per gallon).....	149,407	147,086	147,286	146,481	143,883	144,545	142,205	141,321
Average sulfur Content (percent).....	1.51	1.53	1.66	1.61	2.31	2.10	2.21	2.14
Natural Gas (cents per million Btu).....	257	539	596	821	694	711	902	474
Average heat value (Btu per cubic foot).....	1,019	1,030	1,027	1,028	1,027	1,027	1,027	1,025

<sup>1</sup> Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 7. Electric Power Industry Emissions Estimates, 1999 and 2003 Through 2009**  
(Thousand Metric Tons)

Emission Type	1999	2003	2004	2005	2006	2007	2008	2009
<b>United States</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	11,453	9,688	9,437	9,499	8,867	8,389	7,351	5,535
Petroleum.....	1,101	717	633	587	427	422	250	210
Natural Gas.....	1	2	2	2	2	3	3	2
Other Gases.....	8	*	*	*	*	*	*	*
Other Renewables <sup>1</sup> .....	243 <sup>R</sup>	223 <sup>R</sup>	222 <sup>R</sup>	235 <sup>R</sup>	213 <sup>R</sup>	212 <sup>R</sup>	212 <sup>R</sup>	210
Other <sup>2</sup> .....	36 <sup>R</sup>	15 <sup>R</sup>	15 <sup>R</sup>	16 <sup>R</sup>	14 <sup>R</sup>	15 <sup>R</sup>	13 <sup>R</sup>	13
Total.....	12,843	10,646	10,309	10,340	9,524	9,042	7,830	5,970
<b>Nitrogen Oxide .....</b>								
Coal.....	4,687	3,607	3,286	3,135	2,996	2,870	2,680	1,769
Petroleum.....	391	240	225	221	164	157	75	66
Natural Gas.....	632	453	416	383	399	382	351	336
Other Gases.....	24	44	31	33	45	44	23	20
Other Renewables <sup>1</sup> .....	146 <sup>R</sup>	133 <sup>R</sup>	131 <sup>R</sup>	135 <sup>R</sup>	140 <sup>R</sup>	141 <sup>R</sup>	153 <sup>R</sup>	158
Other <sup>2</sup> .....	75 <sup>R</sup>	55 <sup>R</sup>	55 <sup>R</sup>	53 <sup>R</sup>	55 <sup>R</sup>	56 <sup>R</sup>	48 <sup>R</sup>	48
Total.....	5,955	4,532	4,143	3,961	3,799	3,650	3,330	2,395
<b>Carbon Dioxide .....</b>								
Coal.....	1,894,211 <sup>R</sup>	1,973,597 <sup>R</sup>	1,989,580 <sup>R</sup>	2,028,614 <sup>R</sup>	2,001,085 <sup>R</sup>	2,029,804 <sup>R</sup>	2,001,806 <sup>R</sup>	1,781,278
Petroleum.....	115,677 <sup>R</sup>	112,065 <sup>R</sup>	115,726 <sup>R</sup>	117,086 <sup>R</sup>	67,988 <sup>R</sup>	67,769 <sup>R</sup>	47,855 <sup>R</sup>	41,474
Natural Gas.....	343,090	345,119	367,112	383,461	404,278	434,536	419,599 <sup>R</sup>	432,206
Other Gases.....	205 <sup>R</sup>	11 <sup>R</sup>	86 <sup>R</sup>	29 <sup>R</sup>	18 <sup>R</sup>	21 <sup>R</sup>	16 <sup>R</sup>	17
Geothermal.....	381 <sup>R</sup>	371	381	377	374	376	381 <sup>R</sup>	386
Other <sup>2</sup> .....	12,738 <sup>R</sup>	13,932	14,097	14,270	15,174	14,527	14,354 <sup>R</sup>	14,146
Total.....	2,366,302 <sup>R</sup>	2,445,094 <sup>R</sup>	2,486,982 <sup>R</sup>	2,543,838 <sup>R</sup>	2,488,918 <sup>R</sup>	2,547,032 <sup>R</sup>	2,484,012 <sup>R</sup>	2,269,508

<sup>1</sup> Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

<sup>2</sup> Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

R = Revised.

\* = 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 \*).

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1999 and 2003 Through 2009**

Sector	1999	2003	2004	2005	2006	2007	2008	2009	Percentage Share	
									1999	2009
<b>United States</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential .....	1,144,923	1,275,824	1,291,982	1,359,227	1,351,520	1,392,241	1,379,981	1,364,474	34.6	37.9
Commercial .....	1,001,996	1,198,728	1,230,425	1,275,079	1,299,744	1,336,315	1,335,981	1,307,168	30.3	36.3
Industrial .....	1,058,217	1,012,373	1,017,850	1,019,156	1,011,298	1,027,832	1,009,300	917,442	32.0	25.5
Other .....	106,952	NA	NA	NA	NA	NA	NA	NA	3.2	--
Transportation.....	NA	6,810	7,224	7,506	7,358	8,173	7,700	7,781	--	0.2
All Sectors .....	3,312,087	3,493,734	3,547,479	3,660,969	3,669,919	3,764,561	3,732,962	3,596,865	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential .....	93,483	111,249	115,577	128,393	140,582	148,295	155,433	157,008	42.5	44.4
Commercial .....	72,771	96,263	100,546	110,522	122,914	128,903	138,469	132,940	33.1	37.6
Industrial.....	46,846	51,741	53,477	58,445	62,308	65,712	68,920	62,504	21.3	17.7
Other.....	6,796	NA	NA	NA	NA	NA	NA	NA	3.1	--
Transportation.....	NA	514	519	643	702	792	827	828	--	0.2
All Sectors .....	219,896	259,767	270,119	298,003	326,506	343,703	363,650	353,280	100.0	100.0
<b>Average Retail Prices (cents/kWh) .....</b>										
Residential .....	8.16	8.72	8.95	9.45	10.40	10.65	11.26	11.51	--	--
Commercial .....	7.26	8.03	8.17	8.67	9.46	9.65	10.36	10.17	--	--
Industrial.....	4.43	5.11	5.25	5.73	6.16	6.39	6.83	6.81	--	--
Other.....	6.35	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	7.54	7.18	8.57	9.54	9.70	10.74	10.65	--	--
All Sectors .....	6.64	7.44	7.61	8.14	8.90	9.13	9.74	9.82	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 9. Retail Electricity Sales Statistics, 2009**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>United States</b>								
Number of Entities.....	245	1,942	6	816	77	92	77	3,255
Number of Retail Customers .....	100,939,318	20,863,842	39,045	18,286,337	2,409	3,366,109	NA	143,497,060
Retail Sales (thousand megawatthours).....	2,327,226	541,015	36,258	384,451	12,689	295,226	NA	3,596,865
Percentage of Retail Sales .....	64.70	15.04	1.01	10.69	0.35	8.21	--	100.00
Revenue from Retail Sales (million dollars) .....	230,653	49,369	1,603	37,013	767	23,813	10,062	353,280
Percentage of Revenue .....	65.29	13.97	0.45	10.48	0.22	6.74	2.85	100.00
Average Retail Price (cents/kWh).....	9.91	9.13	4.42	9.63	6.04	8.07	3.41	9.82

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

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 services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

**Table 10. Supply and Disposition of Electricity, 1999 and 2003 Through 2009**  
(Million Kilowatthours)

Category	1999	2003	2004	2005	2006	2007	2008	2009
<b>United States</b>								
<b>Supply</b> .....								
<b>Generation</b> .....								
Electric Utilities .....	3,173,674	2,462,281	2,505,231	2,474,846	2,483,656	2,504,131	2,475,367	2,372,776
Independent Power Producers .....	200,905	1,063,205	1,118,870	1,246,971	1,259,062	1,323,856	1,332,068	1,277,916
Combined Heat and Power, Electric .....	155,404	195,674	184,259	180,375	165,359	177,356	166,915	159,146
<b>Electric Power Sector Generation Subtotal</b> .....	<b>3,529,982</b>	<b>3,721,159</b>	<b>3,808,360</b>	<b>3,902,192</b>	<b>3,908,077</b>	<b>4,005,343</b>	<b>3,974,349</b>	<b>3,809,837</b>
Combined Heat and Power, Commercial .....	8,563	7,496	8,270	8,492	8,371	8,273	7,926	8,165
Combined Heat and Power, Industrial .....	156,264	154,530	153,925	144,739	148,254	143,128	137,113	132,329
<b>Industrial and Commercial Generation Subtotal</b> .....	<b>164,827</b>	<b>162,026</b>	<b>162,195</b>	<b>153,231</b>	<b>156,625</b>	<b>151,401</b>	<b>145,039</b>	<b>140,494</b>
<b>Total Net Generation</b> .....	<b>3,694,810</b>	<b>3,883,185</b>	<b>3,970,555</b>	<b>4,055,423</b>	<b>4,064,702</b>	<b>4,156,745</b>	<b>4,119,388</b>	<b>3,950,331</b>
<b>Total International Imports</b> .....	<b>43,215</b>	<b>30,395</b>	<b>34,210</b>	<b>43,929<sup>R</sup></b>	<b>42,691</b>	<b>51,396</b>	<b>57,019<sup>R</sup></b>	<b>52,191</b>
<b>Total Supply</b> .....	<b>3,738,025</b>	<b>3,913,580</b>	<b>4,004,765</b>	<b>4,099,352<sup>R</sup></b>	<b>4,107,394</b>	<b>4,208,140</b>	<b>4,176,407<sup>R</sup></b>	<b>4,002,522</b>
<b>Disposition</b> .....								
<b>Retail Sales</b> .....								
Full Service Providers .....	3,235,899	3,285,249	3,317,635	3,412,721	3,438,337	3,468,018	3,433,681	3,288,951
Energy-Only Providers .....	76,188	188,785	222,027	237,055	219,185	282,538	285,714	295,226
Facility Direct Retail Sales <sup>1</sup> .....	-	19,700	7,817	11,193	12,397	14,004	13,567	12,689
<b>Total Electric Industry Retail Sales</b> .....	<b>3,312,087</b>	<b>3,493,734</b>	<b>3,547,479</b>	<b>3,660,969</b>	<b>3,669,919</b>	<b>3,764,561</b>	<b>3,732,962</b>	<b>3,596,865</b>
<b>Direct Use</b> .....	<b>171,629</b>	<b>168,295</b>	<b>168,470</b>	<b>150,016</b>	<b>146,927</b>	<b>125,670<sup>R</sup></b>	<b>132,197<sup>R</sup></b>	<b>126,938</b>
<b>Total International Exports</b> .....	<b>14,222</b>	<b>23,975</b>	<b>22,898</b>	<b>19,151<sup>R</sup></b>	<b>24,271</b>	<b>20,144</b>	<b>24,198<sup>R</sup></b>	<b>18,138</b>
<b>Estimated Losses</b> .....	<b>240,086</b>	<b>227,576</b>	<b>265,918</b>	<b>269,217<sup>R</sup></b>	<b>266,277</b>	<b>297,766<sup>R</sup></b>	<b>287,050<sup>R</sup></b>	<b>260,581</b>
<b>Total Disposition</b> .....	<b>3,738,025</b>	<b>3,913,580</b>	<b>4,004,765</b>	<b>4,099,352<sup>R</sup></b>	<b>4,107,394</b>	<b>4,208,140</b>	<b>4,176,407<sup>R</sup></b>	<b>4,002,522</b>

<sup>1</sup> Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. 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. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." 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.

**Table A1. Selected Electric Industry Summary Statistics by State, 2009**

State	Primary Fuel Source	Total Net Summer Capacity		Net Generation		Sulfur Dioxide Emissions		Nitrogen Oxide Emissions		Carbon Dioxide Emissions	
		(MW)	Rank	(MWh)	Rank	(1000 Metric Tons)	Rank	(1000 Metric Tons)	Rank	(1000 Metric Tons)	Rank
Alabama.....	Coal	31,389	9	143,255,556	6	285	7	53	19	69,239	11
Alaska.....	Gas	2,012	48	6,702,159	49	4	46	17	38	4,240	45
Arizona.....	Coal	26,335	14	111,971,250	12	33	33	62	15	53,524	15
Arkansas.....	Coal	15,275	26	57,457,739	25	75	24	37	29	30,427	31
California.....	Gas	65,948	2	204,776,132	4	3	47	83	7	59,428	14
Colorado.....	Coal	13,038	31	50,565,952	29	43	30	54	18	38,989	22
Connecticut.....	Nuclear	8,028	35	31,206,222	40	2	48	6	45	8,046	42
Delaware.....	Coal	3,362	46	4,841,563	50	16	39	6	46	4,143	46
District of Columbia.....	Petroleum	790	51	35,499	51	*	49	*	51	36	50
Florida.....	Gas	59,073	3	217,952,308	3	219	11	116	3	114,854	4
Georgia.....	Coal	36,549	7	128,698,376	9	295	5	74	10	77,022	8
Hawaii.....	Petroleum	2,565	47	11,010,533	45	22	37	22	35	8,661	41
Idaho.....	Hydroelectric	3,758	44	13,100,152	44	5	45	2	49	1,024	49
Illinois.....	Nuclear	44,033	5	193,864,357	5	237	8	78	8	98,975	6
Indiana.....	Coal	27,949	12	116,670,280	11	384	4	111	4	111,113	5
Iowa.....	Coal	14,579	28	51,860,063	28	92	21	45	24	42,978	21
Kansas.....	Coal	12,529	32	46,677,308	31	47	28	46	23	36,207	26
Kentucky.....	Coal	20,160	21	90,630,427	17	232	10	74	9	86,155	7
Louisiana.....	Gas	25,987	15	90,993,676	16	98	20	69	12	53,226	16
Maine.....	Gas	4,344	42	16,349,849	43	33	32	12	43	4,714	44
Maryland.....	Coal	12,482	33	43,774,832	33	197	12	23	34	25,659	32
Massachusetts.....	Gas	13,699	30	38,966,651	36	33	31	17	39	19,683	35
Michigan.....	Coal	30,308	10	101,202,605	14	288	6	91	6	73,589	10
Minnesota.....	Coal	14,626	27	52,491,849	27	65	26	49	21	33,689	28
Mississippi.....	Gas	15,820	25	48,701,484	30	45	29	27	32	23,481	34
Missouri.....	Coal	20,829	20	88,354,272	18	236	9	52	20	74,716	9
Montana.....	Coal	5,779	41	26,712,735	41	23	36	21	36	17,548	37
Nebraska.....	Coal	7,768	37	34,001,892	39	70	25	44	26	23,899	33
Nevada.....	Gas	11,396	34	37,705,133	37	7	44	17	39	18,295	36
New Hampshire.....	Nuclear	4,165	43	20,164,122	42	31	34	5	47	5,507	43
New Jersey.....	Nuclear	18,499	22	61,811,239	23	12	42	14	41	16,086	38
New Mexico.....	Coal	7,993	36	39,674,339	35	18	38	61	16	33,502	29
New York.....	Nuclear	39,671	6	133,150,550	8	59	27	44	27	38,130	23
North Carolina.....	Coal	27,618	13	118,407,403	10	126	15	44	25	64,845	13
North Dakota.....	Coal	5,963	40	34,196,467	38	121	17	59	17	32,608	30
Ohio.....	Coal	33,539	8	136,090,225	7	624	1	110	5	115,066	3
Oklahoma.....	Gas	20,849	19	75,066,809	20	92	22	73	11	51,986	17
Oregon.....	Hydroelectric	13,985	29	56,690,856	26	12	41	13	42	9,406	40
Pennsylvania.....	Coal	45,611	4	219,496,144	2	585	2	120	2	116,621	2
Rhode Island.....	Gas	1,780	49	7,696,824	47	*	50	3	48	3,181	48
South Carolina.....	Nuclear	23,971	16	100,125,486	15	105	19	24	33	38,121	24
South Dakota.....	Hydroelectric	3,362	45	8,196,531	46	11	43	11	44	3,511	47
Tennessee.....	Coal	20,852	18	79,716,889	19	125	16	30	31	43,458	20
Texas.....	Gas	103,037	1	397,167,910	1	419	3	199	1	242,864	1
Utah.....	Coal	7,418	39	43,542,946	34	30	35	68	13	36,518	25
Vermont.....	Nuclear	1,126	50	7,282,348	48	*	51	1	50	7	51
Virginia.....	Nuclear	23,788	17	70,082,066	22	118	18	39	28	36,161	27
Washington.....	Hydroelectric	30,095	11	104,470,133	13	13	40	18	37	13,526	39
West Virginia.....	Coal	16,360	24	70,782,514	21	167	13	35	30	65,928	12
Wisconsin.....	Coal	17,744	23	59,959,060	24	139	14	49	22	44,233	19
Wyoming.....	Coal	7,566	38	46,029,212	32	76	23	66	14	44,684	18
United States.....	Coal	1,025,400	-	3,950,330,926	-	5,970	-	2,395	-	2,269,508	-

MWh = Megawatthours.

MW = Megawatt.

\* = 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 \*).

- (dash) = Data not available.

**Table A1. Selected Electric Industry Summary Statistics by State, 2009 (Continued)**

State	Total Retail Sales		Full Service Sales (including unregulated generators)		Other Providers		Direct Use		Average Retail Price, All Sectors	
	(MWh)	Rank	(MWh)	Rank	(MWh)	Rank	(MWh)	Rank	(cents/kWh)	Rank
Alabama.....	82,844,602	16	82,844,602	14	-	-	4,827,750	6	8.83	26
Alaska.....	6,269,927	50	6,269,927	47	-	-	337,332	38	15.09	6
Arizona.....	73,432,929	21	73,432,929	20	-	-	344,107	37	9.56	19
Arkansas.....	43,173,104	31	43,173,104	29	-	-	1,916,328	16	7.57	36
California.....	259,583,623	2	242,547,580	2	17,036,043	6	10,035,114	3	13.24	9
Colorado.....	51,035,906	27	51,035,906	25	-	-	43,472	46	8.31	31
Connecticut.....	29,715,764	35	16,699,306	39	13,016,458	7	554,157	32	18.06	2
Delaware.....	11,257,778	45	7,212,679	46	4,045,099	14	489,100	34	12.14	14
District of Columbia.....	12,198,825	43	3,567,109	50	8,631,716	11	0	50	12.97	12
Florida.....	224,750,322	3	224,750,322	3	-	-	4,986,384	5	11.49	15
Georgia.....	130,765,505	8	130,765,505	6	-	-	4,546,158	7	8.81	27
Hawaii.....	10,126,185	48	10,126,185	44	-	-	524,094	33	21.21	1
Idaho.....	22,753,779	38	22,753,779	37	-	-	623,181	31	6.51	50
Illinois.....	136,688,466	7	74,194,507	19	62,493,959	1	3,289,437	8	9.08	22
Indiana.....	99,311,813	11	99,311,813	9	-	-	7,502,074	4	7.62	35
Iowa.....	43,641,195	30	43,641,195	28	-	-	1,931,968	15	7.37	40
Kansas.....	38,243,344	32	38,243,344	30	-	-	0	50	7.98	34
Kentucky.....	88,809,175	15	88,809,175	12	-	-	381,874	35	6.52	49
Louisiana.....	78,669,582	18	78,669,582	16	-	-	18,914,254	2	7.06	43
Maine.....	11,282,967	44	150,371	51	11,132,596	9	3,085,306	9	13.09	10
Maryland.....	62,589,143	24	35,962,461	31	26,626,682	3	1,084,931	24	13.08	11
Massachusetts.....	54,359,198	26	29,734,111	34	24,625,087	4	658,587	30	15.45	4
Michigan.....	98,121,014	12	94,074,304	11	4,046,710	13	1,792,173	19	9.40	20
Minnesota.....	64,004,463	23	64,004,463	22	-	-	1,085,600	23	8.14	32
Mississippi.....	46,049,154	29	46,049,154	26	-	-	1,881,334	18	8.85	25
Missouri.....	79,686,603	17	79,686,603	15	-	-	245,721	39	7.35	41
Montana.....	14,326,159	41	11,276,658	42	3,049,501	15	192,482	41	7.57	37
Nebraska.....	28,452,194	36	28,452,194	35	-	-	61,168	44	7.21	42
Nevada.....	34,283,654	33	32,804,555	32	1,479,099	19	12,870	47	10.36	16
New Hampshire.....	10,698,493	47	8,776,576	45	1,921,917	18	82,821	43	15.13	5
New Jersey.....	75,779,853	20	54,343,721	24	21,436,132	5	1,265,628	21	14.52	7
New Mexico.....	21,647,136	39	21,647,136	38	-	-	123,693	42	8.09	33
New York.....	140,034,397	6	77,601,917	17	62,432,480	2	1,567,327	20	15.52	3
North Carolina.....	127,657,979	9	127,657,979	7	-	-	2,213,347	13	8.48	29
North Dakota.....	12,648,580	42	12,648,580	41	-	-	208,738	40	6.63	47
Ohio.....	146,299,793	4	133,347,167	4	12,952,626	8	970,753	25	9.01	23
Oklahoma.....	54,536,799	25	54,536,799	23	-	-	935,019	28	6.94	44
Oregon.....	47,566,897	28	45,255,054	27	2,311,843	16	948,298	27	7.48	38
Pennsylvania.....	143,747,438	5	132,726,219	5	11,021,219	10	2,857,324	10	9.60	18
Rhode Island.....	7,617,629	49	5,677,262	48	1,940,367	17	56,778	45	14.23	8
South Carolina.....	76,417,479	19	76,417,479	18	-	-	1,901,942	17	8.42	30
South Dakota.....	11,010,118	46	11,010,118	43	-	-	429	49	7.39	39
Tennessee.....	94,650,259	13	94,650,259	10	-	-	2,267,084	12	8.69	28
Texas.....	345,295,561	1	345,295,561	1	-	-	32,232,087	1	9.86	17
Utah.....	27,586,700	37	27,586,700	36	-	-	1,092,589	22	6.77	45
Vermont.....	5,496,513	51	5,496,513	49	-	-	1,287	48	12.75	13
Virginia.....	108,462,463	10	108,461,587	8	876	20	2,436,293	11	8.93	24
Washington.....	90,164,701	14	85,139,387	13	5,025,314	12	887,911	29	6.60	48
West Virginia.....	30,271,329	34	30,271,329	33	-	-	371,391	36	6.65	46
Wisconsin.....	66,286,439	22	66,286,439	21	-	-	2,200,039	14	9.38	21
Wyoming.....	16,561,937	40	16,561,937	40	-	-	970,224	26	6.08	51
United States.....	3,596,864,866	-	3,301,639,142	-	295,225,724	-	126,937,958	-	9.82	-

MWh = Megawatthours.  
kWh = Kilowatthours.  
- (dash) = Data not available.