

# State Electricity Profiles 2003

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**Energy Information Administration**  
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## Quality

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# Preface

The State Electricity Profiles 2003 presents a summary of State statistics. The objective of the publication is to provide industry decisionmakers, 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 Division; Office of Coal, Nuclear, Electric and Alternate Fuels; 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 the key State statistics for the reporting year contrasted with two prior years within the past 10 years. The tables present summary statistics; 10 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; delivered fuel prices for coal, petroleum, and natural gas; electric power emissions estimates; retail sales, revenue, and average retail price by sector; and retail electricity sales statistics. Monetary values in this publication are expressed in nominal terms.

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



# Data Sources

*Table 1*

Form EIA-767, "Steam-Electric Plant Operation and Design Report"  
Form EIA-860, "Annual Electric Generation Report"  
Form EIA-861, "Annual Electric Power Industry Report"  
Form EIA-906, "Power Plant Report"  
Form EIA-920, "Combined Heat and Power Plant Report"

*Table 2*

Form EIA-860, "Annual Electric Generation Report"

*Table 3*

Form EIA-861, "Annual Electric Power Industry Report"

*Table 4*

Form EIA-860, "Annual Electric Generation Report"

*Table 5*

Form EIA-906, "Power Plant Report"  
Form EIA-920, "Combined Heat and Power Plant Report"

*Table 6*

FERC Form 423, "Cost and Quality of Fuels for Electric Plants"  
Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report"

*Table 7*

Form EIA-767, "Steam-Electric Plant Operation and Design Report"  
Form EIA-906, "Power Plant Report"  
Form EIA-920, "Combined Heat and Power Plant Report"

*Table 8*

Form EIA-861, "Annual Electric Power Industry Report"

*Table 9*

Form EIA-861, "Annual Electric Power Industry Report"





**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Alabama</b>		
NERC Region(s).....		SERC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	30,162	10
Electric Utilities .....	23,007	8
Independent Power Producers & Combined Heat and Power .....	7,154	15
Net Generation (megawatthours).....	137,487,222	8
Electric Utilities .....	126,845,720	3
Independent Power Producers & Combined Heat and Power .....	10,641,502	23
Emissions (thousand metric tons)		
Sulfur Dioxide .....	453	9
Nitrogen Oxide .....	152	8
Carbon Dioxide .....	80,325	9
Sulfur Dioxide (lbs/MWh).....	7.3	15
Nitrogen Oxide (lbs/MWh).....	2.4	29
Carbon Dioxide (lbs/MWh).....	1,288	31
Total Retail Sales (megawatthours).....	83,844,220	15
Full Service Provider Sales (megawatthours).....	83,844,220	15
Direct Use (megawatthours).....	6,481,099	5
Average Retail Price (cents/kWh).....	5.88	40

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Alabama</b>			
1. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,297
2. James H Miller Jr.....	Gas, Coal	Alabama Power Co	2,742
3. Barry .....	Gas, Coal	Alabama Power Co	2,520
4. E C Gaston .....	Petroleum, Coal	Alabama Power Co	1,897
5. Joseph M Farley.....	Nuclear	Alabama Power Co	1,675
6. Widows Creek.....	Petroleum, Coal	Tennessee Valley Authority	1,603
7. Colbert .....	Gas, Petroleum, Coal	Tennessee Valley Authority	1,559
8. Greene County.....	Petroleum, Gas, Coal	Alabama Power Co	1,249
9. Gorgas.....	Petroleum, Coal	Alabama Power Co	1,235
10. Franklin.....	Gas	Southern Power Co	1,139

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Alabama</b>						
1. Alabama Power Co.....	Investor-Owned	52,208,020	16,959,566	13,648,655	21,599,799	0
2. Tennessee Valley Authority.....	Federal	5,872,117	0	0	5,872,117	0
3. Huntsville City of.....	Public	4,713,228	2,105,833	1,529,975	1,077,420	0
4. Decatur Utilities.....	Public	1,404,329	368,740	302,102	733,487	0
5. Joe Wheeler Elec Member Corp.....	Cooperative	1,152,382	556,980	234,696	360,706	0
Total Sales, Top Five Providers.....		65,350,076	19,991,119	15,715,428	29,643,529	0
Percent of Total State Sales .....		77.9	68.0	77.0	87.1	.0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Alabama</b>							
<b>Electric Utilities</b> .....	<b>19,878</b>	<b>21,292</b>	<b>23,007</b>	<b>1.6</b>	<b>95.4</b>	<b>95.2</b>	<b>76.3</b>
Coal.....	11,494	11,349	11,217	-.3	55.2	50.7	37.2
Petroleum.....	18	16	34	7.3	.1	.1	.1
Natural Gas.....	92	338	1,976	40.6	.4	1.5	6.6
Dual Fired.....	480	1,633	1,574	14.1	2.3	7.3	5.2
Nuclear.....	4,835	4,947	4,972	.3	23.2	22.1	16.5
Hydroelectric.....	2,959	3,009	3,234	1.0	14.2	13.4	10.7
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>951</b>	<b>1,082</b>	<b>7,154</b>	<b>25.1</b>	<b>4.6</b>	<b>4.8</b>	<b>23.7</b>
Coal.....	59	23	14	-14.8	.3	.1	*
Petroleum.....	0	15	7	NM	.0	.1	*
Natural Gas.....	133	202	5,113	50.0	.6	.9	17.0
Other Gases.....	90	104	4	-29.2	.4	.5	*
Dual Fired.....	0	21	1,472	NM	.0	.1	4.9
Other Renewables.....	669	717	544	-2.3	3.2	3.2	1.8
<b>Total Electric Industry</b> .....	<b>20,829</b>	<b>22,373</b>	<b>30,162</b>	<b>4.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	11,554	11,372	11,231	-.3	55.5	50.8	37.2
Petroleum.....	18	31	41	9.6	.1	.1	.1
Natural Gas.....	224	539	7,090	46.8	1.1	2.4	23.5
Other Gases.....	90	104	4	-29.2	.4	.5	*
Dual Fired.....	480	1,654	3,046	22.8	2.3	7.4	10.1
Nuclear.....	4,835	4,947	4,972	.3	23.2	22.1	16.5
Hydroelectric.....	2,959	3,009	3,234	1.0	14.2	13.4	10.7
Other Renewables.....	669	717	544	-2.3	3.2	3.2	1.8

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Alabama</b>							
<b>Electric Utilities</b> .....	<b>95,171,057</b>	<b>113,393,840</b>	<b>126,845,720</b>	<b>3.2</b>	<b>94.4</b>	<b>94.6</b>	<b>92.3</b>
Coal.....	62,768,480	71,457,433	76,238,978	2.2	62.3	59.6	55.5
Petroleum.....	120,574	260,095	195,363	5.5	.1	.2	.1
Natural Gas.....	373,124	2,448,942	6,069,559	36.3	.4	2.0	4.4
Nuclear.....	20,479,759	28,662,513	31,676,953	5.0	20.3	23.9	23.0
Hydroelectric.....	11,429,120	10,564,857	12,664,867	1.1	11.3	8.8	9.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>5,593,200</b>	<b>6,468,285</b>	<b>10,641,502</b>	<b>7.4</b>	<b>5.6</b>	<b>5.4</b>	<b>7.7</b>
Coal.....	535,595	482,603	457,413	-1.7	.5	.4	.3
Petroleum.....	124,410	193,579	141,281	1.4	.1	.2	.1
Natural Gas.....	874,910	1,302,756	6,174,039	24.2	.9	1.1	4.5
Other Gases.....	328,383	268,002	170,368	-7.0	.3	.2	.1
Other Renewables.....	3,729,902	4,220,118	3,698,401	-1	3.7	3.5	2.7
Other.....	0	1,227	0	NM	.0	*	.0
<b>Total Electric Industry</b> .....	<b>100,764,257</b>	<b>119,862,125</b>	<b>137,487,222</b>	<b>3.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	63,304,075	71,940,036	76,696,391	2.2	62.8	60.0	55.8
Petroleum.....	244,984	453,674	336,644	3.6	.2	.4	.2
Natural Gas.....	1,248,034	3,751,698	12,243,598	28.9	1.2	3.1	8.9
Other Gases.....	328,383	268,002	170,368	-7.0	.3	.2	.1
Nuclear.....	20,479,759	28,662,513	31,676,953	5.0	20.3	23.9	23.0
Hydroelectric.....	11,429,120	10,564,857	12,664,867	1.1	11.3	8.8	9.2
Other Renewables.....	3,729,902	4,220,118	3,698,401	-1	3.7	3.5	2.7
Other.....	0	1,227	0	NM	.0	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Alabama</b>				
Coal (cents per million Btu).....	167.2	157.5	W	W
Average heat value (Btu per pound).....	12,088	11,519	10,977	-1.1
Average sulfur Content (percent).....	1.3	1.1	.9	-3.5
Petroleum (cents per million Btu).....	402.0	287.6	W	W
Average heat value (Btu per gallon).....	137,865	139,510	141,394	.3
Average sulfur Content (percent).....	.3	.2	.1	-9.2
Natural Gas (cents per million Btu).....	234.3	247.5	561.5	10.2
Average heat value (Btu per cubic foot).....	1,011	1,044	1,039	.3

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Alabama</b>				
Sulfur Dioxide				
Coal .....	488	508	425	-1.5
Petroleum .....	1	3	1	9.4
Natural Gas .....	*	*	*	19.6
Other .....	25	15	26	.6
Total .....	513	526	453	-1.4
Nitrogen Oxide				
Coal .....	227	186	141	-5.2
Petroleum .....	*	1	1	2.4
Gas .....	4	7	5	2.7
Other .....	8	9	6	-3.2
Total .....	239	203	152	-4.9
Carbon Dioxide				
Coal .....	59,619	69,045	73,413	2.3
Petroleum .....	467	1,170	493	.6
Gas .....	2,135	4,341	6,359	12.9
Geothermal .....	—	—	—	NM
Other .....	—	—	59	NM
Total .....	62,220	74,556	80,325	2.9

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Alabama</b>							
Retail Sales (thousand megawatthours)							
Residential .....	23,159	27,327	29,416	2.7	34.3	34.5	35.1
Commercial .....	11,844	17,662	20,411	6.2	17.5	22.3	24.3
Industrial .....	31,919	33,539	34,017	.7	47.2	42.4	40.6
Other .....	659	644	NA	NM	1.0	.8	NA
Total .....	67,581	79,173	83,844	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,550	1,897	2,175	3.8	41.8	43.1	44.1
Commercial .....	800	1,155	1,399	6.4	21.6	26.2	28.4
Industrial .....	1,315	1,306	1,355	.3	35.5	29.6	27.5
Other .....	41	47	NA	NM	1.1	1.1	NA
Total .....	3,707	4,404	4,929	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	6.69	6.94	7.39	1.1	NA	NA	NA
Commercial .....	6.76	6.54	6.85	.1	NA	NA	NA
Industrial .....	4.12	3.89	3.98	-.4	NA	NA	NA
Other .....	6.28	7.26	NA	NM	NA	NA	NA
Total .....	5.48	5.56	5.88	.8	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Alabama</b>								
Number of Entities.....	1	36	1	25	NA	NA	NA	63
Number of Retail Customers.....	1,363,120	476,247	22	499,615	NA	NA	NA	2,339,004
Retail Sales (thousand megawatthours) .....	52,208	15,430	5,872	10,334	NA	NA	NA	83,844
Percentage of Retail Sales .....	62.27	18.40	7.00	12.33	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	3,051	939	188	751	NA	NA	NA	4,929
Percentage of Revenue.....	61.91	19.04	3.82	15.23	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.84	6.08	3.21	7.26	NA	NA	NA	5.88

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Alaska</b>		
NERC Region(s).....		--
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	1,896	48
Electric Utilities .....	1,753	40
Independent Power Producers & Combined Heat and Power .....	142	48
Net Generation (megawatthours) .....	6,338,732	48
Electric Utilities .....	5,673,462	42
Independent Power Producers & Combined Heat and Power .....	665,271	45
Emissions (thousand metric tons)		
Sulfur Dioxide .....	5	48
Nitrogen Oxide.....	8	47
Carbon Dioxide.....	3,944	46
Sulfur Dioxide (lbs/MWh).....	1.6	43
Nitrogen Oxide (lbs/MWh).....	2.7	23
Carbon Dioxide (lbs/MWh).....	1,372	26
Total Retail Sales (megawatthours).....	5,563,682	50
Full Service Provider Sales (megawatthours).....	5,563,682	49
Direct Use (megawatthours).....	1,077,994	30
Average Retail Price (cents/kWh).....	10.50	7

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Alaska</b>			
1. Beluga.....	Gas	Chugach Electric Assn Inc	344
2. George M Sullivan Generation Plant 2.....	Petroleum, Gas	Municipality of Anchorage	220
3. Bradley Lake .....	Hydro	Homer Electric Assn Inc	126
4. North Pole .....	Petroleum	Golden Valley Elec Assn Inc	96
5. Anchorage 1 .....	Petroleum, Gas	Municipality of Anchorage	79
6. Snettisham .....	Hydro	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.....	Hydro	Municipality of Anchorage	44
10. International .....	Gas	Chugach Electric Assn Inc	42

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Alaska</b>						
1. Chugach Electric Assn Inc.....	Cooperative	1,176,587	547,756	587,798	41,033	0
2. Golden Valley Elec Assn Inc.....	Cooperative	1,102,556	301,916	134,977	665,663	0
3. Municipality of Anchorage .....	Public	890,512	149,024	741,488	0	0
4. Matanuska Electric Assn Inc.....	Cooperative	581,689	368,675	213,014	0	0
5. Homer Electric Assn Inc.....	Cooperative	478,976	160,667	167,954	150,355	0
Total Sales, Top Five Providers.....		4,230,320	1,528,038	1,845,231	857,051	0
Percent of Total State Sales .....		76	77	75	78	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Alaska</b>							
<b>Electric Utilities</b> .....	<b>1,738</b>	<b>1,720</b>	<b>1,753</b>	<b>0.1</b>	<b>86.0</b>	<b>85.1</b>	<b>92.5</b>
Coal.....	54	25	25	-8.2	2.7	1.2	1.3
Petroleum.....	532	547	529	-1	26.3	27.1	27.9
Natural Gas.....	492	481	532	.9	24.3	23.8	28.1
Dual Fired.....	308	308	270	-1.5	15.2	15.2	14.2
Hydroelectric.....	352	359	396	1.3	17.4	17.8	20.9
Other Renewables.....	0	0	1	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>285</b>	<b>299</b>	<b>142</b>	<b>-7.4</b>	<b>14.1</b>	<b>14.8</b>	<b>7.5</b>
Coal.....	57	83	60	.6	2.8	4.1	3.2
Petroleum.....	54	78	50	-9	2.7	3.9	2.6
Natural Gas.....	100	101	32	-11.9	4.9	5.0	1.7
Dual Fired.....	37	37	0	NM	1.8	1.8	.0
Other Renewables.....	37	0	0	NM	1.8	.0	.0
<b>Total Electric Industry</b> .....	<b>2,022</b>	<b>2,020</b>	<b>1,896</b>	<b>-.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	110	108	85	-2.8	5.4	5.3	4.5
Petroleum.....	586	626	579	-1	29.0	31.0	30.5
Natural Gas.....	592	582	564	-.5	29.3	28.8	29.7
Dual Fired.....	345	345	271	-2.6	17.1	17.1	14.3
Hydroelectric.....	352	359	396	1.3	17.4	17.8	20.9
Other Renewables.....	37	0	1	-33.0	1.8	.0	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Alaska</b>							
<b>Electric Utilities</b> .....	<b>4,762,116</b>	<b>4,590,270</b>	<b>5,673,462</b>	<b>2.0</b>	<b>79.8</b>	<b>78.8</b>	<b>89.5</b>
Coal.....	294,615	171,053	167,555	-6.1	4.9	2.9	2.6
Petroleum.....	441,197	756,914	775,374	6.5	7.4	13.0	12.2
Natural Gas.....	2,680,897	2,548,971	3,147,997	1.8	44.9	43.7	49.7
Hydroelectric.....	1,345,407	1,113,332	1,582,536	1.8	22.5	19.1	25.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,204,400</b>	<b>1,238,575</b>	<b>665,271</b>	<b>-6.4</b>	<b>20.2</b>	<b>21.2</b>	<b>10.5</b>
Coal.....	208,251	353,560	382,109	7.0	3.5	6.1	6.0
Petroleum.....	121,447	79,553	70,900	-5.8	2.0	1.4	1.1
Natural Gas.....	720,278	803,924	206,485	-13.0	12.1	13.8	3.3
Other Renewables.....	154,424	1,538	5,777	-30.6	2.6	*	.1
<b>Total Electric Industry</b> .....	<b>5,966,516</b>	<b>5,828,845</b>	<b>6,338,732</b>	<b>.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	502,866	524,613	549,664	1.0	8.4	9.0	8.7
Petroleum.....	562,644	836,467	846,274	4.6	9.4	14.3	13.4
Natural Gas.....	3,401,175	3,352,895	3,354,482	-.2	57.0	57.5	52.9
Hydroelectric.....	1,345,407	1,113,332	1,582,536	1.8	22.5	19.1	25.0
Other Renewables.....	154,424	1,538	5,777	-30.6	2.6	*	.1

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Alaska</b>				
Natural Gas (cents per million Btu).....	112.9	179.8	229.0	8.2
Average heat value (Btu per cubic foot).....	999	1,000	1,000	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Alaska</b>				
<b>Sulfur Dioxide</b>				
Coal .....	10	15	2	-16.9
Petroleum .....	*	1	3	28.6
Natural Gas .....	*	*	*	-1.1
Other.....	1	—	—	NM
Total .....	11	16	5	-9.3
<b>Nitrogen Oxide</b>				
Coal .....	6	6	4	-4.8
Petroleum .....	1	1	1	8.5
Gas.....	5	5	3	-6.2
Other.....	*	*	*	-36.2
Total .....	12	12	8	-4.6
<b>Carbon Dioxide</b>				
Coal .....	1,402	1,404	1,221	-1.5
Petroleum .....	616	800	716	1.7
Gas.....	2,170	2,145	2,007	-9
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total .....	4,188	4,350	3,944	-7

See footnotes at end of tables.



**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Alaska</b>							
Retail Sales (thousand megawatthours)							
Residential.....	1,688	1,768	1,987	1.8	37.2	34.7	35.7
Commercial.....	2,155	2,307	2,473	1.5	47.5	45.3	44.4
Industrial.....	511	818	1,104	8.9	11.3	16.0	19.8
Other.....	179	202	NA	NM	3.9	4.0	NA
Total.....	4,533	5,095	5,564	2.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	191	203	238	2.5	41.1	40.0	40.8
Commercial.....	208	219	259	2.5	44.7	43.1	44.3
Industrial.....	43	59	87	8.1	9.3	11.6	14.9
Other.....	23	28	NA	NM	4.9	5.5	NA
Total.....	465	508	584	2.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	11.32	11.50	11.98	.6	NA	NA	NA
Commercial.....	9.66	9.48	10.49	.9	NA	NA	NA
Industrial.....	8.37	7.17	7.86	-.7	NA	NA	NA
Other.....	12.57	13.68	NA	NM	NA	NA	NA
Total.....	10.25	9.97	10.50	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Alaska</b>								
Number of Entities.....	21	34	NA	18	NA	NA	NA	73
Number of Retail Customers.....	26,659	56,553	NA	207,630	NA	NA	NA	290,842
Retail Sales (thousand megawatthours).....	453	1,380	NA	3,730	NA	NA	NA	5,564
Percentage of Retail Sales.....	8.14	24.81	NA	67.05	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	60	142	NA	382	NA	NA	NA	584
Percentage of Revenue.....	10.20	24.35	NA	65.45	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	13.15	10.31	NA	10.25	NA	NA	NA	10.50

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Arizona</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	23,510	15
Electric Utilities .....	16,193	15
Independent Power Producers & Combined Heat and Power .....	7,317	14
Net Generation (megawatthours).....	94,396,218	16
Electric Utilities .....	80,348,246	15
Independent Power Producers & Combined Heat and Power .....	14,047,973	18
Emissions (thousand metric tons)		
Sulfur Dioxide .....	63	31
Nitrogen Oxide.....	80	22
Carbon Dioxide.....	46,655	20
Sulfur Dioxide (lbs/MWh).....	1.5	44
Nitrogen Oxide (lbs/MWh).....	1.9	36
Carbon Dioxide (lbs/MWh).....	1,090	38
Total Retail Sales (megawatthours).....	64,079,560	23
Full Service Provider Sales (megawatthours).....	64,079,560	22
Direct Use (megawatthours).....	373,797	39
Average Retail Price (cents/kWh).....	7.34	17

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Arizona</b>			
1. Palo Verde.....	Nuclear	Arizona Public Service Co	3,825
2. Navajo.....	Petroleum, Coal	Salt River Proj Ag I & P Dist	2,250
3. Gila River Power Station.....	Other, Gas	Panda Gila River LP	2,060
4. Glen Canyon Dam.....	Hydro	U S Bureau of Reclamation	1,296
5. Mesquite Generating Station.....	Gas	Sempra Energy Resources	1,073
6. Hoover Dam.....	Hydro	U S Bureau of Reclamation	1,040
7. Cholla.....	Gas, Petroleum, Coal	Arizona Public Service Co	995
8. West Phoenix.....	Gas	Arizona Public Service Co	939
9. Redhawk.....	Gas	Pinnacle West Energy	918
10. Springerville.....	Petroleum, Coal	Tucson Electric Power Co	805

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Arizona</b>						
1. Arizona Public Service Co.....	Investor-Owned	24,562,305	11,147,195	11,066,410	2,348,700	0
2. Salt River Proj Ag I & P Dist.....	Public	23,509,147	11,091,296	9,515,561	2,902,290	0
3. Tucson Electric Power Co.....	Investor-Owned	8,229,552	3,370,540	1,928,205	2,930,807	0
4. Morenci Water & Electric Co.....	Investor-Owned	1,628,981	10,170	14,193	1,604,618	0
5. Western Area Power Administrati.....	Federal	648,613	0	648,613	0	0
Total Sales, Top Five Providers.....		58,578,598	25,619,201	23,172,982	9,786,415	0
Percent of Total State Sales.....		91	92	91	90	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Arizona</b>							
<b>Electric Utilities</b> .....	<b>15,098</b>	<b>15,084</b>	<b>16,193</b>	<b>0.8</b>	<b>99.0</b>	<b>98.9</b>	<b>68.9</b>
Coal.....	5,119	5,286	5,336	.5	33.5	34.7	22.7
Petroleum.....	97	85	108	1.2	.6	.6	.5
Natural Gas.....	233	35	1,003	17.6	1.5	.2	4.3
Dual Fired.....	3,006	3,052	2,988	-.1	19.7	20.0	12.7
Nuclear.....	3,810	3,733	3,825	*	25.0	24.5	16.3
Hydroelectric.....	2,648	2,708	2,706	.2	17.4	17.8	11.5
Other Renewables.....	0	0	11	NM	.0	.0	*
Pumped Storage.....	185	185	216	1.7	1.2	1.2	.9
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>161</b>	<b>170</b>	<b>7,317</b>	<b>52.8</b>	<b>1.1</b>	<b>1.1</b>	<b>31.1</b>
Coal.....	51	65	68	3.2	.3	.4	.3
Petroleum.....	5	8	4	-2.4	*	.1	*
Natural Gas.....	19	57	7,232	93.5	.1	.4	30.8
Dual Fired.....	86	40	13	-18.9	.6	.3	.1
<b>Total Electric Industry</b> .....	<b>15,258</b>	<b>15,253</b>	<b>23,510</b>	<b>4.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,170	5,351	5,404	.5	33.9	35.1	23.0
Petroleum.....	102	93	112	1.0	.7	.6	.5
Natural Gas.....	251	91	8,235	47.4	1.6	.6	35.0
Dual Fired.....	3,092	3,092	3,001	-.3	20.3	20.3	12.8
Nuclear.....	3,810	3,733	3,825	*	25.0	24.5	16.3
Hydroelectric.....	2,648	2,708	2,706	.2	17.4	17.8	11.5
Other Renewables.....	0	0	11	NM	.0	.0	*
Pumped Storage.....	185	185	216	1.7	1.2	1.2	.9

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Arizona</b>							
<b>Electric Utilities</b> .....	<b>71,203,728</b>	<b>81,299,241</b>	<b>80,348,246</b>	<b>1.4</b>	<b>99.0</b>	<b>99.0</b>	<b>85.1</b>
Coal.....	38,072,165	36,225,373	37,739,559	-1	52.9	44.1	40.0
Petroleum.....	128,437	61,227	46,706	-10.6	.2	.1	*
Natural Gas.....	2,162,370	3,472,416	6,580,927	13.2	3.0	4.2	7.0
Nuclear.....	23,170,894	30,301,045	28,581,053	2.4	32.2	36.9	30.3
Hydroelectric.....	7,365,425	10,970,189	7,074,984	-4	10.2	13.4	7.5
Other Renewables.....	0	0	41,426	NM	.0	.0	*
Pumped Storage.....	304,437	268,991	283,590	-8	.4	.3	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>730,768</b>	<b>795,831</b>	<b>14,047,972</b>	<b>38.9</b>	<b>1.0</b>	<b>1.0</b>	<b>14.9</b>
Coal.....	270,965	338,054	351,850	2.9	.4	.4	.4
Petroleum.....	23,733	1,989	1,970	-24.2	*	*	*
Natural Gas.....	321,165	455,788	12,351,714	50.0	.4	.6	13.1
Other Renewables.....	114,905	0	3,843	-31.4	.2	.0	*
Other.....	0	0	1,338,595	NM	.0	.0	1.4
<b>Total Electric Industry</b> .....							
<b>71,934,496</b>	<b>82,095,072</b>	<b>94,396,218</b>	<b>3.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	38,343,130	36,563,427	38,091,409	-1	53.3	44.5	40.4
Petroleum.....	152,170	63,216	48,676	-11.9	.2	.1	.1
Natural Gas.....	2,483,535	3,928,204	18,932,641	25.3	3.5	4.8	20.1
Nuclear.....	23,170,894	30,301,045	28,581,053	2.4	32.2	36.9	30.3
Hydroelectric.....	7,365,425	10,970,189	7,074,984	-4	10.2	13.4	7.5
Other Renewables.....	114,905	0	45,269	-9.8	.2	.0	*
Pumped Storage.....	304,437	268,991	283,590	-8	.4	.3	.3
Other.....	0	0	1,338,595	NM	.0	.0	1.4

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Arizona</b>				
Coal (cents per million Btu).....	137.4	133.1	W	W
Average heat value (Btu per pound).....	10,281	10,186	10,081	-0.2
Average sulfur Content (percent).....	.5	.5	.6	2.5
Petroleum (cents per million Btu).....	428.1	429.0	W	W
Average heat value (Btu per gallon).....	142,149	138,851	139,550	-2
Average sulfur Content (percent).....	.3	.1	.2	-5.3
Natural Gas (cents per million Btu).....	217.7	239.1	506.1	9.8
Average heat value (Btu per cubic foot).....	1,023	1,014	1,021	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Arizona</b>				
Sulfur Dioxide				
Coal .....	129	90	63	-7.7
Petroleum .....	1	*	*	-32.4
Natural Gas .....	*	*	*	25.2
Other .....	1	—	—	NM
Total .....	130	90	63	-7.7
Nitrogen Oxide				
Coal .....	162	77	74	-8.4
Petroleum .....	*	*	*	-26.9
Gas .....	3	5	6	6.3
Other .....	*	—	*	-19.8
Total .....	166	82	80	-7.8
Carbon Dioxide				
Coal .....	36,564	35,497	37,544	.3
Petroleum .....	128	51	43	-11.5
Gas .....	1,443	2,289	9,069	22.7
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	38,135	37,836	46,655	2.3

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Arizona</b>							
Retail Sales (thousand megawatthours)							
Residential .....	18,212	21,611	27,742	4.8	38.5	38.7	43.3
Commercial .....	15,625	18,440	25,425	5.6	33.0	33.0	39.7
Industrial .....	11,303	12,549	10,914	-4	23.9	22.5	17.0
Other .....	2,142	3,244	NA	NM	4.5	5.8	NA
Total .....	47,282	55,843	64,080	3.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,694	1,875	2,316	3.5	45.2	45.8	49.2
Commercial .....	1,301	1,430	1,803	3.7	34.7	34.9	38.3
Industrial .....	636	643	587	-9	17.0	15.7	12.5
Other .....	117	144	NA	NM	3.1	3.5	NA
Total .....	3,747	4,092	4,706	2.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	9.30	8.68	8.35	-1.2	NA	NA	NA
Commercial .....	8.32	7.76	7.09	-1.8	NA	NA	NA
Industrial .....	5.63	5.12	5.37	-5	NA	NA	NA
Other .....	5.47	4.43	NA	NM	NA	NA	NA
Total .....	7.93	7.33	7.34	-9	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Arizona</b>								
Number of Entities.....	5	28	3	9	NA	NA	NA	45
Number of Retail Customers.....	1,381,302	872,381	20,391	148,880	NA	NA	NA	2,422,954
Retail Sales (thousand megawatthours) .....	34,994	25,790	1,100	2,196	NA	NA	NA	64,080
Percentage of Retail Sales .....	54.61	40.25	1.72	3.43	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	2,744	1,719	43	199	NA	NA	NA	4,706
Percentage of Revenue.....	58.32	36.53	.92	4.23	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.84	6.67	3.95	9.06	NA	NA	NA	7.34

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Arkansas</b>		
NERC Region(s).....		SPP/SERC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	13,548	27
Electric Utilities .....	9,777	25
Independent Power Producers & Combined Heat and Power .....	3,773	23
Net Generation (megawatthours).....	50,401,101	27
Electric Utilities .....	41,636,514	24
Independent Power Producers & Combined Heat and Power .....	8,764,587	27
Emissions (thousand metric tons)		
Sulfur Dioxide .....	79	29
Nitrogen Oxide .....	46	34
Carbon Dioxide .....	27,220	32
Sulfur Dioxide (lbs/MWh).....	3.4	34
Nitrogen Oxide (lbs/MWh).....	2.0	34
Carbon Dioxide (lbs/MWh).....	1,191	36
Total Retail Sales (megawatthours).....	43,108,259	30
Full Service Provider Sales (megawatthours).....	43,108,259	30
Direct Use (megawatthours).....	2,393,069	20
Average Retail Price (cents/kWh).....	5.57	44

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Arkansas</b>			
1. Union Power Station.....	Gas	TPS-Arkansas Operations	2,020
2. Arkansas Nuclear One .....	Nuclear	Entergy Arkansas Inc	1,840
3. White Bluff.....	Petroleum, Coal	Entergy Arkansas Inc	1,635
4. Independence.....	Petroleum, Coal	Entergy Arkansas Inc	1,630
5. Robert E Ritchie.....	Gas	Entergy Arkansas Inc	883
6. Lake Catherine .....	Gas	Entergy Arkansas Inc	735
7. Hot Spring Energy Facility.....	Gas	Duke Energy Hot Spring LLC	652
8. Wrightsville Power Facility.....	Gas	Wrightsville Power Fac LLC	568
9. Flint Creek.....	Petroleum, Coal	Southwestern Electric Power Co	480
10. Bull Shoals.....	Hydro	USCE-Little Rock District	391

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Arkansas</b>						
1. Entergy Arkansas Inc .....	Investor-Owned	19,649,578	7,056,948	5,593,868	6,998,762	0
2. Southwestern Electric Power Co.....	Investor-Owned	3,956,951	1,017,381	1,336,324	1,603,246	0
3. Mississippi County Electric Co .....	Cooperative	3,078,968	54,715	20,460	3,003,793	0
4. Oklahoma Gas & Electric Co .....	Investor-Owned	2,649,439	674,467	830,766	1,144,206	0
5. First Spring Coop Corp .....	Cooperative	1,439,456	947,868	151,362	340,226	0
Total Sales, Top Five Providers.....		30,774,392	9,751,379	7,932,780	13,090,233	0
Percent of Total State Sales .....		71	63	75	77	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Arkansas</b>							
<b>Electric Utilities</b> .....	<b>9,674</b>	<b>9,618</b>	<b>9,777</b>	<b>0.1</b>	<b>95.7</b>	<b>96.1</b>	<b>72.2</b>
Coal.....	3,817	3,817	3,745	-2	37.8	38.1	27.6
Petroleum.....	206	206	18	-23.7	2.0	2.1	.1
Natural Gas.....	67	14	199	12.9	.7	.1	1.5
Dual Fired.....	2,564	2,582	2,560	*	25.4	25.8	18.9
Nuclear.....	1,694	1,694	1,840	.9	16.8	16.9	13.6
Hydroelectric.....	1,298	1,277	1,387	.7	12.8	12.8	10.2
Pumped Storage.....	28	28	28	.0	.3	.3	.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>432</b>	<b>395</b>	<b>3,773</b>	<b>27.2</b>	<b>4.3</b>	<b>3.9</b>	<b>27.8</b>
Petroleum.....	4	3	0	NM	*	*	.0
Natural Gas.....	138	102	3,312	42.3	1.4	1.0	24.4
Dual Fired.....	35	35	156	18.1	.3	.3	1.2
Hydroelectric.....	1	1	1	.0	*	*	*
Other Renewables.....	254	254	304	2.0	2.5	2.5	2.2
<b>Total Electric Industry</b> .....	<b>10,106</b>	<b>10,013</b>	<b>13,548</b>	<b>3.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,817	3,817	3,745	-2	37.8	38.1	27.6
Petroleum.....	210	209	18	-23.9	2.1	2.1	.1
Natural Gas.....	205	116	3,510	37.1	2.0	1.2	25.9
Dual Fired.....	2,599	2,617	2,716	.5	25.7	26.1	20.0
Nuclear.....	1,694	1,694	1,840	.9	16.8	16.9	13.6
Hydroelectric.....	1,299	1,278	1,388	.7	12.9	12.8	10.2
Other Renewables.....	254	254	303	2.0	2.5	2.5	2.2
Pumped Storage.....	28	28	28	.0	.3	.3	.2

See footnotes at end of tables.



**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Arkansas</b>							
<b>Electric Utilities</b> .....	<b>39,547,768</b>	<b>43,198,908</b>	<b>41,636,514</b>	<b>0.6</b>	<b>94.1</b>	<b>94.6</b>	<b>82.6</b>
Coal.....	19,780,738	23,140,020	23,422,401	1.9	47.1	50.7	46.5
Petroleum.....	96,439	143,834	263,982	11.8	.2	.3	.5
Natural Gas.....	2,284,992	3,704,159	597,283	-13.8	5.4	8.1	1.2
Nuclear.....	13,923,701	13,097,252	14,689,416	.6	33.1	28.7	29.1
Hydroelectric.....	3,461,898	3,113,643	2,653,347	-2.9	8.2	6.8	5.3
Pumped Storage.....	0	0	10,085	NM	.0	.0	*
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>2,484,380</b>	<b>2,466,393</b>	<b>8,764,588</b>	<b>15.0</b>	<b>5.9</b>	<b>5.4</b>	<b>17.4</b>
Coal.....	71,380	40,184	81,765	1.5	.2	.1	.2
Petroleum.....	3,174	21,515	24,924	25.7	*	*	*
Natural Gas.....	840,335	802,920	6,703,577	26.0	2.0	1.8	13.3
Other Gases.....	0	185	0	NM	.0	.0	.0
Hydroelectric.....	743	3,100	1,271	6.1	*	*	*
Other Renewables.....	1,566,911	1,598,489	1,843,889	1.8	3.7	3.5	3.7
Other.....	1,837	0	109,161	57.4	*	.0	.2
<b>Total Electric Industry</b> .....	<b>42,032,148</b>	<b>45,665,301</b>	<b>50,401,101</b>	<b>2.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	19,852,118	23,180,204	23,504,166	1.9	47.2	50.8	46.6
Petroleum.....	99,613	165,349	288,906	12.6	.2	.4	.6
Natural Gas.....	3,125,327	4,507,079	7,300,860	9.9	7.4	9.9	14.5
Other Gases.....	0	185	0	NM	.0	.0	.0
Nuclear.....	13,923,701	13,097,252	14,689,416	.6	33.1	28.7	29.1
Hydroelectric.....	3,462,641	3,116,743	2,654,618	-2.9	8.2	6.8	5.3
Other Renewables.....	1,566,911	1,598,489	1,843,889	1.8	3.7	3.5	3.7
Pumped Storage.....	0	0	10,085	NM	.0	.0	*
Other.....	1,837	0	109,161	57.4	*	.0	.2

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Arkansas</b>				
Coal (cents per million Btu).....	160.3	147.2	119.5	-3.2
Average heat value (Btu per pound).....	8,707	8,671	8,758	.1
Average sulfur Content (percent).....	.3	.3	.3	-1.4
Petroleum (cents per million Btu).....	358.9	370.8	645.5	6.7
Average heat value (Btu per gallon).....	140,162	141,228	140,479	*
Average sulfur Content (percent).....	.5	.4	.4	-1.6
Natural Gas (cents per million Btu).....	182.3	224.0	423.4	9.8
Average heat value (Btu per cubic foot).....	1,024	1,023	1,033	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Arkansas</b>				
Sulfur Dioxide				
Coal .....	66	66	65	-0.2
Petroleum .....	*	1	2	26.0
Natural Gas .....	*	*	*	8.0
Other .....	13	6	12	-3
Total .....	78	73	79	.1
Nitrogen Oxide				
Coal .....	92	38	37	-9.5
Petroleum .....	*	*	*	19.4
Gas .....	7	9	4	-5.3
Other .....	4	4	4	-4
Total .....	103	51	46	-8.6
Carbon Dioxide				
Coal .....	20,824	23,981	23,551	1.4
Petroleum .....	80	134	256	13.9
Gas .....	3,103	3,863	3,412	1.1
Geothermal .....	—	—	—	NM
Other .....	2	—	—	NM
Total .....	24,009	27,978	27,220	1.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Arkansas</b>							
Retail Sales (thousand megawatthours)							
Residential .....	11,642	14,339	15,598	3.3	35.7	36.5	36.2
Commercial .....	6,866	8,205	10,568	4.9	21.0	20.9	24.5
Industrial .....	13,526	16,066	16,942	2.5	41.5	40.9	39.3
Other .....	585	705	NA	NM	1.8	1.8	NA
Total .....	32,619	39,315	43,108	3.1	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	940	1,076	1,130	2.1	45.4	47.4	47.1
Commercial .....	472	484	585	2.4	22.8	21.3	24.4
Industrial .....	622	669	685	1.1	30.0	29.4	28.5
Other .....	38	42	NA	NM	1.8	1.8	NA
Total .....	2,072	2,272	2,399	1.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.07	7.51	7.24	-1.2	NA	NA	NA
Commercial .....	6.88	5.90	5.54	-2.4	NA	NA	NA
Industrial .....	4.60	4.16	4.04	-1.4	NA	NA	NA
Other .....	6.46	5.98	NA	NM	NA	NA	NA
Total .....	6.35	5.78	5.57	-1.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	3	NA	NA	39
Number of Retail Customers.....	832,486	164,252	NA	419,184	4	NA	NA	1,415,926
Retail Sales (thousand megawatthours) .....	26,393	5,458	NA	10,990	267	NA	NA	43,108
Percentage of Retail Sales .....	61.22	12.66	NA	25.49	.62	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	1,474	296	NA	621	8	NA	NA	2,399
Percentage of Revenue.....	61.44	12.34	NA	25.87	.35	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.59	5.43	NA	5.65	3.12	NA	NA	5.57

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>California</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	57,850	2
Electric Utilities .....	23,223	7
Independent Power Producers & Combined Heat and Power .....	34,627	4
Net Generation (megawatthours) .....	192,788,542	4
Electric Utilities .....	81,728,209	13
Independent Power Producers & Combined Heat and Power .....	111,060,333	4
Emissions (thousand metric tons)		
Sulfur Dioxide .....	17	42
Nitrogen Oxide.....	60	31
Carbon Dioxide.....	55,855	16
Sulfur Dioxide (lbs/MWh).....	.2	50
Nitrogen Oxide (lbs/MWh).....	.7	46
Carbon Dioxide (lbs/MWh).....	639	47
Total Retail Sales (megawatthours).....	238,709,728	2
Full Service Provider Sales (megawatthours).....	172,746,724	3
Deregulated Sales (megawatthours).....	65,963,004	1
Direct Use (megawatthours).....	15,183,496	3
Average Retail Price (cents/kWh).....	11.62	3

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>California</b>			
1. Moss Landing Power Plant.....	Gas	Duke Energy North America LLC	2,498
2. Diablo Canyon.....	Nuclear	Pacific Gas & Electric Co	2,174
3. San Onofre.....	Nuclear	Southern California Edison Co	2,150
4. AES Alamos LLC.....	Gas	AES Alamos LLC	1,987
5. Ormond Beach.....	Gas	Reliant Energy Ormond Bch LLC	1,516
6. Castaic .....	Hydro	Los Angeles City of	1,495
7. Haynes .....	Gas	Los Angeles City of	1,348
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.....	Hydro	Pacific Gas & Electric Co	1,212

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>California</b>						
1. Southern California Edison Co.....	Investor-Owned	52,229,092	21,319,622	25,574,334	5,290,058	45,078
2. Pacific Gas & Electric Co.....	Investor-Owned	47,881,180	19,460,983	22,134,150	6,286,047	0
3. Electric Fund (CDWR).....	Power Marketer	42,268,207	15,102,091	20,819,775	6,333,470	12,871
4. Los Angeles City of.....	Public	23,040,163	7,792,453	12,640,270	2,476,441	130,999
5. San Diego Gas & Electric Co.....	Investor-Owned	10,048,511	4,476,343	4,244,814	1,231,354	96,000
Total Sales, Top Five Providers.....		175,467,153	68,151,492	85,413,343	21,617,370	284,948
Percent of Total State Sales.....		74	84	79	44	35

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>California</b>							
<b>Electric Utilities</b> .....	<b>43,297</b>	<b>30,663</b>	<b>23,223</b>	<b>-6.7</b>	<b>81.0</b>	<b>58.5</b>	<b>40.1</b>
Petroleum.....	558	395	185	-11.5	1.0	.8	.3
Natural Gas.....	16,926	6,510	1,654	-22.8	31.7	12.4	2.9
Dual Fired.....	6,277	4,413	3,500	-6.3	11.7	8.4	6.0
Nuclear.....	4,310	4,310	4,324	*	8.1	8.2	7.5
Hydroelectric.....	9,773	9,780	9,716	-1	18.3	18.7	16.8
Other Renewables.....	1,723	1,525	156	-23.4	3.2	2.9	.3
Pumped Storage.....	3,730	3,730	3,688	-1	7.0	7.1	6.4
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>10,158</b>	<b>21,712</b>	<b>34,627</b>	<b>14.6</b>	<b>19.0</b>	<b>41.5</b>	<b>59.9</b>
Coal.....	421	381	357	-1.8	.8	.7	.6
Petroleum.....	48	191	507	29.9	.1	.4	.9
Natural Gas.....	3,778	13,083	26,084	23.9	7.1	25.0	45.1
Other Gases.....	220	203	225	.3	.4	.4	.4
Dual Fired.....	925	3,473	2,184	10.0	1.7	6.6	3.8
Hydroelectric.....	643	476	232	-10.7	1.2	.9	.4
Other Renewables.....	4,114	3,896	5,021	2.2	7.7	7.4	8.7
Other.....	9	9	17	7.3	*	*	*
<b>Total Electric Industry</b> .....	<b>53,457</b>	<b>52,374</b>	<b>57,850</b>	<b>.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	421	381	358	-1.8	.8	.7	.6
Petroleum.....	607	586	692	1.5	1.1	1.1	1.2
Natural Gas.....	20,705	19,592	27,738	3.3	38.7	37.4	47.9
Other Gases.....	220	203	225	.3	.4	.4	.4
Dual Fired.....	7,202	7,885	5,684	-2.6	13.5	15.1	9.8
Nuclear.....	4,310	4,310	4,324	*	8.1	8.2	7.5
Hydroelectric.....	10,416	10,256	9,947	-1.5	19.5	19.6	17.2
Other Renewables.....	5,837	5,422	5,177	-1.3	10.9	10.4	8.9
Pumped Storage.....	3,730	3,730	3,688	-1	7.0	7.1	6.4
Other.....	9	9	17	7.3	*	*	*

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>California</b>							
<b>Electric Utilities</b> .....	<b>126,749,186</b>	<b>114,926,213</b>	<b>81,728,209</b>	<b>-4.8</b>	<b>68.1</b>	<b>60.6</b>	<b>42.4</b>
Petroleum.....	1,862,719	121,385	50,996	-33.0	1.0	.1	*
Natural Gas.....	61,530,357	26,385,452	9,873,371	-18.4	33.0	13.9	5.1
Nuclear.....	33,752,237	34,594,206	35,593,789	.6	18.1	18.2	18.5
Hydroelectric.....	21,917,229	47,475,341	35,782,738	5.6	11.8	25.0	18.6
Other Renewables.....	6,751,795	5,141,028	1,339,627	-16.4	3.6	2.7	.7
Pumped Storage.....	934,849	1,208,801	-912,313	NM	.5	.6	-5
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>59,442,805</b>	<b>74,674,493</b>	<b>111,060,334</b>	<b>7.2</b>	<b>31.9</b>	<b>39.4</b>	<b>57.6</b>
Coal.....	3,271,691	2,159,070	2,326,305	-3.7	1.8	1.1	1.2
Petroleum.....	1,548,422	2,091,687	2,341,252	4.7	.8	1.1	1.2
Natural Gas.....	32,901,443	48,746,540	81,558,810	10.6	17.7	25.7	42.3
Other Gases.....	2,959,314	3,076,556	1,759,015	-5.6	1.6	1.6	.9
Hydroelectric.....	1,095,386	2,072,859	587,965	-6.7	.6	1.1	.3
Other Renewables.....	17,652,424	16,507,556	22,442,789	2.7	9.5	8.7	11.6
Other.....	14,125	20,225	44,198	13.5	*	*	*
<b>Total Electric Industry</b> .....	<b>186,191,991</b>	<b>189,600,706</b>	<b>192,788,542</b>	<b>.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,271,691	2,159,070	2,326,305	-3.7	1.8	1.1	1.2
Petroleum.....	3,411,141	2,213,072	2,392,248	-3.9	1.8	1.2	1.2
Natural Gas.....	94,431,800	75,131,992	91,432,181	-4	50.7	39.6	47.4
Other Gases.....	2,959,314	3,076,556	1,759,015	-5.6	1.6	1.6	.9
Nuclear.....	33,752,237	34,594,206	35,593,789	.6	18.1	18.2	18.5
Hydroelectric.....	23,012,615	49,548,200	36,370,703	5.2	12.4	26.1	18.9
Other Renewables.....	24,404,219	21,648,584	23,782,416	-3	13.1	11.4	12.3
Pumped Storage.....	934,849	1,208,801	-912,313	NM	.5	.6	-5
Other.....	14,125	20,225	44,198	13.5	*	*	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>California</b>				
Coal (cents per million Btu).....	0.0	0.0	172.7	NM
Average heat value (Btu per pound).....	0	0	11,943	NM
Average sulfur Content (percent).....	.0	.0	.7	NM
Petroleum (cents per million Btu).....	216.3	274.7	266.5	2.3
Average heat value (Btu per gallon).....	146,100	144,857	124,229	-1.8
Average sulfur Content (percent).....	.4	.0	.9	10.5
Natural Gas (cents per million Btu).....	248.4	268.6	536.7	8.9
Average heat value (Btu per cubic foot).....	1,029	1,021	1,025	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>California</b>				
Sulfur Dioxide				
Coal .....	25	16	3	-21.9
Petroleum .....	47	52	13	-13.2
Natural Gas .....	*	*	*	-.1
Other .....	1	3	1	*
Total .....	73	71	17	-14.8
Nitrogen Oxide				
Coal .....	17	13	5	-12.8
Petroleum .....	8	8	7	-1.5
Gas .....	74	55	43	-5.8
Other .....	10	14	5	-7.1
Total .....	108	89	60	-6.4
Carbon Dioxide				
Coal .....	4,728	3,580	3,851	-2.3
Petroleum .....	3,668	3,012	2,988	-2.3
Gas .....	53,249	45,644	48,319	-1.1
Geothermal .....	351	330	330	-.7
Other .....	93	90	366	16.4
Total .....	62,089	52,656	55,855	-1.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>California</b>							
Retail Sales (thousand megawatthours)							
Residential .....	68,866	75,205	80,699	1.8	32.2	31.8	33.8
Commercial .....	76,925	92,517	108,049	3.8	36.0	39.1	45.3
Industrial .....	59,864	61,641	49,153	-2.2	28.0	26.1	20.6
Other .....	8,030	7,071	NA	NM	3.8	3.0	NA
Transportation .....	NA	NA	809	NM	NA	NA	.3
Total .....	213,684	236,434	238,710	1.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	7,869	7,964	9,686	2.3	37.6	37.7	34.9
Commercial .....	8,383	8,782	13,167	5.1	40.1	41.6	47.5
Industrial .....	4,246	4,001	4,840	1.5	20.3	19.0	17.4
Other .....	401	358	NA	NM	1.9	1.7	NA
Transportation .....	NA	NA	48	NM	NA	NA	.2
Total .....	20,900	21,105	27,741	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	11.43	10.60	12.00	.5	NA	NA	NA
Commercial .....	10.90	9.66	12.19	1.3	NA	NA	NA
Industrial .....	7.09	6.59	9.85	3.7	NA	NA	NA
Other .....	5.00	5.06	NA	NM	NA	NA	NA
Transportation .....	NA	NA	5.88	NM	NA	NA	NA
Total .....	9.78	9.03	11.62	1.9	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>California</b>								
Number of Entities.....	6	35	1	4	22	14	4	86
Number of Retail Customers.....	10,788,096	3,128,465	48	14,659	25	68,164	NA	13,999,457
Retail Sales (thousand megawatthours) .....	111,655	57,361	1,790	256	1,684	65,963	NA	238,710
Percentage of Retail Sales .....	46.77	24.03	.75	.11	.71	27.63	NA	100.00
Revenue from Retail Sales (million dollars) .....	14,931	5,453	41	22	117	4,907	2,270	27,741
Percentage of Revenue.....	53.82	19.66	.15	.08	.42	17.69	8.18	100.00
Average Retail Price (cents/kWh).....	13.37	9.51	2.28	8.73	6.97	7.44	3.44	11.62

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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



**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Colorado</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	10,370	32
Electric Utilities .....	7,884	28
Independent Power Producers & Combined Heat and Power .....	2,486	31
Net Generation (megawatthours).....	46,616,787	30
Electric Utilities .....	41,226,252	26
Independent Power Producers & Combined Heat and Power .....	5,390,534	35
Emissions (thousand metric tons)		
Sulfur Dioxide .....	70	30
Nitrogen Oxide .....	71	26
Carbon Dioxide .....	40,599	24
Sulfur Dioxide (lbs/MWh).....	3.3	35
Nitrogen Oxide (lbs/MWh).....	3.4	17
Carbon Dioxide (lbs/MWh).....	1,920	11
Total Retail Sales (megawatthours).....	46,494,645	27
Full Service Provider Sales (megawatthours).....	46,494,645	26
Direct Use (megawatthours).....	495,263	35
Average Retail Price (cents/kWh).....	6.77	24

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Colorado</b>			
1. Craig .....	Petroleum, Gas, Coal	Tri-State G & T Assn Inc	1,264
2. Cherokee .....	Gas, Coal	Public Service Co of Colorado	722
3. Fort St Vrain .....	Gas	Public Service Co of Colorado	691
4. Comanche.....	Gas, Coal	Public Service Co of Colorado	660
5. Pawnee.....	Gas, Coal	Public Service Co of Colorado	505
6. Front Range Power Project.....	Gas	Colorado Springs City of	462
7. Rawhide.....	Petroleum, Gas, Coal	Platte River Power Authority	450
8. Hayden.....	Petroleum, Gas, Coal	Public Service Co of Colorado	446
9. Cabin Creek.....	Hydro	Public Service Co of Colorado	324
10. Blue Spruce Energy Center.....	Gas	Blue Spruce Energy Center LLC	276

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Colorado</b>						
1. Public Service Co of Colorado .....	Investor-Owned	25,845,962	8,251,118	12,868,557	4,688,829	37,458
2. Colorado Springs City of .....	Public	4,268,278	1,291,590	1,831,743	1,144,945	0
3. Intermountain Rural Elec Assn.....	Cooperative	1,729,110	1,125,014	511,511	92,585	0
4. Aquila Inc .....	Investor-Owned	1,728,312	546,859	675,719	505,734	0
5. Fort Collins City of .....	Public	1,330,081	433,488	462,099	434,494	0
Total Sales, Top Five Providers.....		34,901,743	11,648,069	16,349,629	6,866,587	37,458
Percent of Total State Sales .....		75	74	83	62	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Colorado</b>							
<b>Electric Utilities</b> .....	<b>6,674</b>	<b>6,935</b>	<b>7,884</b>	<b>1.9</b>	<b>91.3</b>	<b>91.1</b>	<b>76.0</b>
Coal.....	4,954	4,962	4,891	-.1	67.7	65.2	47.2
Petroleum.....	141	142	162	1.6	1.9	1.9	1.6
Natural Gas.....	25	244	944	49.7	.3	3.2	9.1
Dual Fired.....	424	411	699	5.7	5.8	5.4	6.7
Hydroelectric.....	598	614	601	.1	8.2	8.1	5.8
Other Renewables.....	0	0	24	NM	.0	.0	.2
Pumped Storage.....	532	562	563	.6	7.3	7.4	5.4
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>639</b>	<b>677</b>	<b>2,486</b>	<b>16.3</b>	<b>8.7</b>	<b>8.9</b>	<b>24.0</b>
Coal.....	33	33	40	2.2	.5	.4	.4
Petroleum.....	3	3	2	-4.4	*	*	*
Natural Gas.....	381	606	1,915	19.7	5.2	8.0	18.5
Dual Fired.....	187	0	306	5.6	2.6	.0	3.0
Hydroelectric.....	30	30	38	2.7	.4	.4	.4
Other Renewables.....	5	5	185	49.4	.1	.1	1.8
<b>Total Electric Industry</b> .....	<b>7,313</b>	<b>7,613</b>	<b>10,370</b>	<b>4.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,986	4,996	4,931	-.1	68.2	65.6	47.6
Petroleum.....	144	145	164	1.5	2.0	1.9	1.6
Natural Gas.....	407	850	2,859	24.2	5.6	11.2	27.6
Dual Fired.....	611	411	1,005	5.7	8.4	5.4	9.7
Hydroelectric.....	628	644	639	.2	8.6	8.5	6.2
Other Renewables.....	5	5	209	51.4	.1	.1	2.0
Pumped Storage.....	532	562	563	.6	7.3	7.4	5.4

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Colorado</b>							
<b>Electric Utilities</b> .....	<b>33,324,413</b>	<b>35,471,294</b>	<b>41,226,252</b>	<b>2.4</b>	<b>93.5</b>	<b>91.2</b>	<b>88.4</b>
Coal.....	31,401,250	33,079,201	35,807,527	1.5	88.1	85.1	76.8
Petroleum.....	8,913	36,736	33,927	16.0	*	.1	.1
Natural Gas.....	373,868	963,657	4,369,743	31.4	1.0	2.5	9.4
Other Gases.....	0	0	4,001	NM	.0	.0	*
Hydroelectric.....	1,428,515	1,346,170	1,156,217	-2.3	4.0	3.5	2.5
Other Renewables.....	0	0	58,477	NM	.0	.0	.1
Pumped Storage.....	111,867	45,530	-203,640	NM	.3	.1	-4
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,327,498</b>	<b>3,410,269</b>	<b>5,390,534</b>	<b>9.8</b>	<b>6.5</b>	<b>8.8</b>	<b>11.6</b>
Coal.....	235,333	278,648	308,096	3.0	.7	.7	.7
Petroleum.....	1,307	12,454	67	-28.1	*	*	.0
Natural Gas.....	1,946,874	2,972,657	4,856,290	10.7	5.5	7.6	10.4
Hydroelectric.....	115,522	115,791	105,980	-1.0	.3	.3	.2
Other Renewables.....	28,462	30,719	120,102	17.3	.1	.1	.3
<b>Total Electric Industry</b> .....	<b>35,651,911</b>	<b>38,881,563</b>	<b>46,616,787</b>	<b>3.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	31,636,583	33,357,849	36,115,623	1.5	88.7	85.8	77.5
Petroleum.....	10,220	49,190	33,994	14.3	*	.1	.1
Natural Gas.....	2,320,742	3,936,314	9,226,033	16.6	6.5	10.1	19.8
Other Gases.....	0	0	4,001	NM	.0	.0	*
Hydroelectric.....	1,544,037	1,461,961	1,262,197	-2.2	4.3	3.8	2.7
Other Renewables.....	28,462	30,719	178,579	22.6	.1	.1	.4
Pumped Storage.....	111,867	45,530	-203,640	NM	.3	.1	-4

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Colorado</b>				
Coal (cents per million Btu).....	105.6	98.7	96.6	-1.0
Average heat value (Btu per pound).....	9,946	9,834	9,793	-.2
Average sulfur Content (percent).....	.4	.4	.4	-.3
Petroleum (cents per million Btu).....	458.1	.0	W	W
Average heat value (Btu per gallon).....	134,590	0	123,942	-9
Average sulfur Content (percent).....	.1	.0	*	-22.3
Natural Gas (cents per million Btu).....	212.5	300.3	429.9	8.1
Average heat value (Btu per cubic foot).....	1,042	994	1,027	-2

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Colorado</b>				
Sulfur Dioxide				
Coal .....	98	97	70	-3.6
Petroleum .....	*	*	*	3.2
Natural Gas .....	*	*	*	19.6
Other .....	*	—	—	NM
Total .....	98	97	70	-3.6
Nitrogen Oxide				
Coal .....	136	73	67	-7.5
Petroleum .....	*	*	*	25.6
Gas .....	3	4	4	2.7
Other .....	*	*	*	-23.5
Total .....	139	77	71	-7.2
Carbon Dioxide				
Coal .....	32,044	33,600	35,999	1.3
Petroleum .....	14	67	32	9.7
Gas .....	1,431	2,163	4,569	13.8
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	33,488	35,830	40,599	2.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Colorado</b>							
Retail Sales (thousand megawatthours)							
Residential .....	10,939	12,652	15,725	4.1	31.7	32.0	33.8
Commercial .....	12,953	15,959	19,657	4.7	37.5	40.3	42.3
Industrial .....	9,620	9,998	11,076	1.6	27.9	25.3	23.8
Other .....	990	965	NA	NM	2.9	2.4	NA
Transportation .....	NA	NA	37	NM	NA	NA	.1
Total .....	34,502	39,574	46,495	3.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	805	942	1,280	5.3	38.4	40.0	40.7
Commercial .....	777	904	1,298	5.9	37.1	38.3	41.3
Industrial .....	440	433	565	2.8	21.0	18.4	18.0
Other .....	74	76	NA	NM	3.5	3.2	NA
Transportation .....	NA	NA	3	NM	NA	NA	.1
Total .....	2,096	2,357	3,146	4.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.36	7.45	8.14	1.1	NA	NA	NA
Commercial .....	6.00	5.67	6.60	1.1	NA	NA	NA
Industrial .....	4.58	4.34	5.10	1.2	NA	NA	NA
Other .....	7.43	7.92	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.32	NM	NA	NA	NA
Total .....	6.07	5.95	6.77	1.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Colorado</b>								
Number of Entities.....	2	29	1	28	7	NA	NA	67
Number of Retail Customers.....	1,365,652	391,150	5	508,019	7	NA	NA	2,264,833
Retail Sales (thousand megawatthours).....	27,574	8,109	69	10,380	362	NA	NA	46,495
Percentage of Retail Sales.....	59.31	17.44	.15	22.33	.78	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,901	471	1	761	13	NA	NA	3,146
Percentage of Revenue.....	60.41	14.96	.04	24.20	.40	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.89	5.80	1.73	7.33	3.48	NA	NA	6.77

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Connecticut</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	7,573	34
Electric Utilities .....	210	46
Independent Power Producers & Combined Heat and Power .....	7,363	13
Net Generation (megawatthours).....	29,545,050	40
Electric Utilities .....	59,812	46
Independent Power Producers & Combined Heat and Power .....	29,485,238	11
Emissions (thousand metric tons)		
Sulfur Dioxide .....	8	46
Nitrogen Oxide.....	11	45
Carbon Dioxide.....	9,534	40
Sulfur Dioxide (lbs/MWh).....	.6	46
Nitrogen Oxide (lbs/MWh).....	.8	45
Carbon Dioxide (lbs/MWh).....	711	46
Total Retail Sales (megawatthours).....	31,830,218	33
Full Service Provider Sales (megawatthours).....	31,230,118	33
Deregulated Sales (megawatthours).....	600,100	16
Direct Use (megawatthours).....	1,539,033	24
Average Retail Price (cents/kWh).....	10.16	9

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Connecticut</b>			
1. Millstone.....	Nuclear	Dominion Nuclear Conn Inc	1,997
2. Middletown.....	Other, Gas, Petroleum	Middletown Power LLC	837
3. Lake Road Generating Plant.....	Petroleum, Gas	Lake Road Generating Co LP	732
4. Bridgeport Station .....	Other, Petroleum, Coal	PSEG Power Connecticut LLC	513
5. Montville Station.....	Gas, Petroleum	NRG Montville Operations Inc	496
6. Bridgeport Energy Project .....	Gas	Bridgeport Energy LLC	454
7. New Haven Harbor .....	Petroleum	PSEG Power Connecticut LLC	448
8. Devon Station.....	Gas, Petroleum	NRG Devon Operations Inc	354
9. NRG Norwalk Harbor.....	Petroleum	NRG Norwalk Harbor Ops Inc	342
10. PPL Wallingford Energy LLC.....	Gas	PPL Wallingford Energy LLC	190

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Connecticut</b>						
1. Connecticut Light & Power Co .....	Investor-Owned	23,517,194	10,069,162	9,775,938	3,479,764	192,330
2. United Illuminating Co.....	Investor-Owned	5,763,052	2,261,954	2,549,352	951,746	0
3. Wallingford Town of.....	Public	614,272	213,019	233,183	168,070	0
4. Groton Dept of Utilities .....	Public	587,266	114,212	129,562	343,492	0
5. Norwich City of.....	Public	341,834	124,983	164,380	52,471	0
Total Sales, Top Five Providers.....		30,823,618	12,783,330	12,852,415	4,995,543	192,330
Percent of Total State Sales .....		97	97	98	93	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Connecticut</b>							
<b>Electric Utilities</b> .....	<b>6,732</b>	<b>5,617</b>	<b>210</b>	<b>-32.0</b>	<b>91.7</b>	<b>85.6</b>	<b>2.8</b>
Coal.....	385	385	0	NM	5.2	5.9	.0
Petroleum.....	2,210	2,197	178	-24.4	30.1	33.5	2.3
Natural Gas.....	214	341	0	NM	2.9	5.2	.0
Dual Fired.....	528	547	23	-29.4	7.2	8.3	.3
Nuclear .....	3,194	2,011	0	NM	43.5	30.6	.0
Hydroelectric .....	131	130	9	-25.7	1.8	2.0	.1
Other Renewables .....	64	0	0	NM	.9	.0	.0
Pumped Storage .....	6	6	0	NM	.1	.1	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>607</b>	<b>949</b>	<b>7,363</b>	<b>32.0</b>	<b>8.3</b>	<b>14.5</b>	<b>97.2</b>
Coal.....	200	200	553	12.0	2.7	3.0	7.3
Petroleum.....	0	0	2,084	NM	.0	.0	27.5
Natural Gas.....	57	406	701	32.2	.8	6.2	9.3
Dual Fired.....	194	77	1,632	26.7	2.6	1.2	21.5
Nuclear .....	0	0	1,997	NM	.0	.0	26.4
Hydroelectric .....	21	19	137	23.2	.3	.3	1.8
Other Renewables .....	135	244	254	7.3	1.8	3.7	3.4
Pumped Storage .....	0	0	4	NM	.0	.0	.1
Other.....	0	3	1	NM	.0	*	*
<b>Total Electric Industry</b> .....	<b>7,339</b>	<b>6,565</b>	<b>7,573</b>	<b>.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	585	585	553	-.6	8.0	8.9	7.3
Petroleum.....	2,210	2,197	2,263	.3	30.1	33.5	29.9
Natural Gas.....	271	747	701	11.1	3.7	11.4	9.3
Dual Fired.....	722	624	1,654	9.6	9.8	9.5	21.8
Nuclear .....	3,194	2,011	1,997	-5.1	43.5	30.6	26.4
Hydroelectric .....	152	148	146	-.4	2.1	2.3	1.9
Other Renewables .....	199	244	254	2.7	2.7	3.7	3.4
Pumped Storage .....	6	6	4	-4.4	.1	.1	.1
Other.....	0	3	1	NM	.0	*	*

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Connecticut</b>							
<b>Electric Utilities</b> .....	<b>27,201,416</b>	<b>15,122,925</b>	<b>59,812</b>	<b>-49.3</b>	<b>87.2</b>	<b>76.8</b>	<b>0.2</b>
Coal.....	2,104,045	1,482,608	0	NM	6.7	7.5	.0
Petroleum.....	3,353,897	8,608,001	13,955	-45.6	10.8	43.7	*
Natural Gas.....	732,277	977,388	0	NM	2.3	5.0	.0
Nuclear.....	20,159,938	3,243,003	0	NM	64.7	16.5	.0
Hydroelectric.....	409,502	384,447	45,857	-21.6	1.3	2.0	.2
Other Renewables.....	438,962	427,389	0	NM	1.4	2.2	.0
Pumped Storage.....	2,795	89	0	NM	*	.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,977,501</b>	<b>4,568,567</b>	<b>29,485,238</b>	<b>24.9</b>	<b>12.8</b>	<b>23.2</b>	<b>99.8</b>
Coal.....	1,518,731	1,533,639	4,200,297	12.0	4.9	7.8	14.2
Petroleum.....	189,665	57,081	2,048,713	30.3	.6	.3	6.9
Natural Gas.....	1,166,308	1,280,080	5,061,613	17.7	3.7	6.5	17.1
Other Gases.....	0	239	0	NM	.0	*	.0
Nuclear.....	0	0	16,078,095	NM	.0	.0	54.4
Hydroelectric.....	71,660	63,838	518,559	24.6	.2	.3	1.8
Other Renewables.....	1,031,137	1,633,690	1,565,942	4.8	3.3	8.3	5.3
Pumped Storage.....	0	0	-18	NM	.0	.0	.0
Other.....	0	0	12,037	NM	.0	.0	*
<b>Total Electric Industry</b> .....							
<b>Coal</b> .....	<b>31,178,917</b>	<b>19,691,492</b>	<b>29,545,050</b>	<b>-6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,622,776	3,016,247	4,200,297	1.7	11.6	15.3	14.2
Petroleum.....	3,543,562	8,665,082	2,062,668	-5.8	11.4	44.0	7.0
Natural Gas.....	1,898,585	2,257,468	5,061,613	11.5	6.1	11.5	17.1
Other Gases.....	0	239	0	NM	.0	*	.0
Nuclear.....	20,159,938	3,243,003	16,078,095	-2.5	64.7	16.5	54.4
Hydroelectric.....	481,162	448,285	564,416	1.8	1.5	2.3	1.9
Other Renewables.....	1,470,099	2,061,079	1,565,942	.7	4.7	10.5	5.3
Pumped Storage.....	2,795	89	-18	NM	*	.0	.0
Other.....	0	0	12,037	NM	.0	.0	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Connecticut</b>				
Coal (cents per million Btu).....	177.4	181.1	W	W
Average heat value (Btu per pound).....	13,094	13,138	10,565	-2.4
Average sulfur Content (percent).....	.5	.5	.5	.2
Petroleum (cents per million Btu).....	253.1	218.7	542.0	8.8
Average heat value (Btu per gallon).....	151,052	152,132	146,744	-.3
Average sulfur Content (percent).....	.8	.8	.4	-7.1
Natural Gas (cents per million Btu).....	196.0	236.9	W	W
Average heat value (Btu per cubic foot).....	1,017	1,030	1,020	*

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Connecticut</b>				
Sulfur Dioxide				
Coal .....	9	7	3	-10.9
Petroleum .....	16	38	5	-12.2
Natural Gas .....	*	*	*	8.0
Other .....	*	1	*	4.6
Total .....	25	45	8	-11.5
Nitrogen Oxide				
Coal .....	12	8	2	-16.4
Petroleum .....	4	11	2	-5.8
Gas .....	2	3	1	-9.7
Other .....	2	3	5	9.2
Total .....	20	25	11	-6.9
Carbon Dioxide				
Coal .....	3,446	2,994	3,926	1.5
Petroleum .....	3,186	7,458	1,869	-5.8
Gas .....	1,182	1,512	2,509	8.7
Geothermal .....	—	—	—	NM
Other .....	158	271	1,230	25.6
Total .....	7,971	12,235	9,534	2.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Connecticut</b>							
Retail Sales (thousand megawatthours)							
Residential .....	10,898	10,935	13,178	2.1	38.9	37.8	41.4
Commercial .....	10,845	11,683	13,094	2.1	38.7	40.3	41.1
Industrial .....	5,917	5,838	5,366	-1.1	21.1	20.2	16.9
Other .....	366	500	NA	NM	1.3	1.7	NA
Transportation .....	NA	NA	192	NM	NA	NA	.6
Total .....	28,026	28,956	31,830	1.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,250	1,306	1,491	2.0	43.8	43.8	46.1
Commercial .....	1,084	1,169	1,300	2.0	38.0	39.2	40.2
Industrial .....	467	449	429	-9	16.4	15.0	13.3
Other .....	51	58	NA	NM	1.8	1.9	NA
Transportation .....	NA	NA	15	NM	NA	NA	.5
Total .....	2,853	2,983	3,235	1.4	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	11.47	11.95	11.31	-2	NA	NA	NA
Commercial .....	9.99	10.01	9.93	-1	NA	NA	NA
Industrial .....	7.90	7.70	7.99	.1	NA	NA	NA
Other .....	14.00	11.65	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.72	NM	NA	NA	NA
Total .....	10.18	10.30	10.16	*	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Connecticut</b>								
Number of Entities.....	3	7	NA	NA	NA	5	2	17
Number of Retail Customers.....	1,467,971	68,616	NA	NA	NA	22,673	NA	1,559,260
Retail Sales (thousand megawatthours) .....	29,323	1,907	NA	NA	NA	600	NA	31,830
Percentage of Retail Sales .....	92.12	5.99	NA	NA	NA	1.89	NA	100.00
Revenue from Retail Sales (million dollars) .....	3,026	152	NA	NA	NA	29	27	3,235
Percentage of Revenue.....	93.55	4.70	NA	NA	NA	.91	.84	100.00
Average Retail Price (cents/kWh).....	10.32	7.98	NA	NA	NA	4.91	4.53	10.16

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Delaware</b>		
NERC Region(s).....		MAAC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	3,393	44
Electric Utilities .....	58	48
Independent Power Producers & Combined Heat and Power .....	3,334	27
Net Generation (megawatthours).....	7,392,287	47
Electric Utilities .....	31,107	48
Independent Power Producers & Combined Heat and Power .....	7,361,180	31
Emissions (thousand metric tons)		
Sulfur Dioxide .....	36	37
Nitrogen Oxide .....	13	41
Carbon Dioxide .....	6,996	45
Sulfur Dioxide (lbs/MWh).....	10.7	6
Nitrogen Oxide (lbs/MWh).....	4.0	12
Carbon Dioxide (lbs/MWh).....	2,086	6
Total Retail Sales (megawatthours).....	12,599,590	42
Full Service Provider Sales (megawatthours).....	10,488,250	42
Deregulated Sales (megawatthours).....	2,111,340	13
Direct Use (megawatthours).....	563,430	34
Average Retail Price (cents/kWh).....	6.96	19

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Delaware</b>			
1. Hay Road.....	Petroleum, Gas	Conectiv Delmarva Gen Inc	1,060
2. Indian River Operations.....	Petroleum, Coal	Indian River Operations Inc	784
3. Edge Moor.....	Gas, Petroleum, Coal	Conectiv Delmarva Gen Inc	717
4. Delaware City Plant.....	Gas, Petroleum	Motiva Enterprises LLC	382
5. McKee Run .....	Gas, Petroleum	DFD Operating Services LLC	136
6. NRG Energy Center Dover.....	Petroleum, Gas, Coal	NRG Energy Center Dover LLC	120
7. Warren F Sam Beasley Generation Station .....	Petroleum, Gas	Delaware Municipal Electric Corp	49
8. Christiana.....	Petroleum	Conectiv Delmarva Gen Inc	45
9. Van Sant Station.....	Petroleum, Gas	DFD Operating Services LLC	39
10. Delaware City 10.....	Petroleum	Conectiv Delmarva Gen Inc	16

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Delaware</b>						
1. Delmarva Power & Light Company .....	Investor-Owned	7,843,542	2,895,993	3,266,959	1,680,590	0
2. Delaware Electric Coop Inc .....	Cooperative	949,356	791,738	147,250	10,368	0
3. Dover City of .....	Public	736,383	180,474	226,404	329,505	0
4. Conectiv Energy Services Inc .....	Power Marketer	598,301	0	0	598,301	0
5. Newark City of .....	Public	379,846	94,233	65,416	220,197	0
Total Sales, Top Five Providers .....		10,507,428	3,962,438	3,706,029	2,838,961	0
Percent of Total State Sales .....		83	95	95	63	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Delaware</b>							
<b>Electric Utilities</b> .....	<b>2,269</b>	<b>2,285</b>	<b>58</b>	<b>-33.5</b>	<b>92.8</b>	<b>93.2</b>	<b>1.7</b>
Coal .....	931	1,027	0	NM	38.1	41.9	.0
Petroleum .....	124	572	9	-25.3	5.1	23.3	.3
Natural Gas .....	399	175	0	NM	16.3	7.1	.0
Dual Fired .....	815	511	49	-26.8	33.3	20.8	1.4
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>176</b>	<b>166</b>	<b>3,334</b>	<b>38.7</b>	<b>7.2</b>	<b>6.8</b>	<b>98.3</b>
Coal .....	37	27	1,052	45.1	1.5	1.1	31.0
Petroleum .....	134	134	561	17.2	5.5	5.5	16.5
Natural Gas .....	0	4	183	NM	.0	.2	5.4
Other Gases .....	1	1	303	88.7	*	*	8.9
Dual Fired .....	4	0	1,235	89.1	.2	.0	36.4
<b>Total Electric Industry</b> .....	<b>2,445</b>	<b>2,451</b>	<b>3,393</b>	<b>3.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal .....	968	1,054	1,052	.9	39.6	43.0	31.0
Petroleum .....	258	706	570	9.2	10.6	28.8	16.8
Natural Gas .....	399	179	184	-8.2	16.3	7.3	5.4
Other Gases .....	1	1	303	88.7	*	*	8.9
Dual Fired .....	819	511	1,284	5.1	33.5	20.8	37.8

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Delaware</b>							
<b>Electric Utilities</b> .....	<b>8,501,043</b>	<b>6,317,738</b>	<b>31,107</b>	<b>-46.4</b>	<b>92.1</b>	<b>91.6</b>	<b>0.4</b>
Coal.....	4,754,309	3,811,669	0	NM	51.5	55.3	.0
Petroleum.....	1,619,659	1,234,464	9,863	-43.3	17.5	17.9	.1
Natural Gas.....	2,127,075	1,271,605	21,244	-40.1	23.0	18.4	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>729,233</b>	<b>580,847</b>	<b>7,361,180</b>	<b>29.3</b>	<b>7.9</b>	<b>8.4</b>	<b>99.6</b>
Coal.....	195,094	94,508	4,026,496	40.0	2.1	1.4	54.5
Petroleum.....	421,942	289,170	1,707,001	16.8	4.6	4.2	23.1
Natural Gas.....	3,342	5,367	1,442,536	96.2	*	.1	19.5
Other Gases.....	100,885	187,641	185,147	7.0	1.1	2.7	2.5
Other.....	7,970	4,161	0	NM	.1	.1	.0
<b>Total Electric Industry</b> .....	<b>9,230,276</b>	<b>6,898,585</b>	<b>7,392,287</b>	<b>-2.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,949,403	3,906,177	4,026,496	-2.3	53.6	56.6	54.5
Petroleum.....	2,041,601	1,523,634	1,716,864	-1.9	22.1	22.1	23.2
Natural Gas.....	2,130,417	1,276,972	1,463,780	-4.1	23.1	18.5	19.8
Other Gases.....	100,885	187,641	185,147	7.0	1.1	2.7	2.5
Other.....	7,970	4,161	0	NM	.1	.1	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Delaware</b>				
Coal (cents per million Btu).....	162.0	156.3	W	W
Average heat value (Btu per pound).....	12,954	12,962	12,802	-0.1
Average sulfur Content (percent).....	.9	1.0	.9	-2
Petroleum (cents per million Btu).....	259.3	214.7	576.2	9.3
Average heat value (Btu per gallon).....	149,735	150,957	147,895	-1
Average sulfur Content (percent).....	.8	.7	.5	-5.3
Natural Gas (cents per million Btu).....	234.2	297.7	W	W
Average heat value (Btu per cubic foot).....	1,037	971	1,043	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Delaware</b>				
Sulfur Dioxide				
Coal .....	35	35	32	-1.1
Petroleum .....	43	6	4	-22.7
Natural Gas .....	*	*	—	NM
Other .....	*	*	*	-32.2
Total .....	78	41	36	-8.2
Nitrogen Oxide				
Coal .....	19	13	8	-8.8
Petroleum .....	4	3	4	1.7
Gas .....	2	*	1	-11.1
Other .....	—	—	*	NM
Total .....	25	16	13	-6.6
Carbon Dioxide				
Coal .....	5,170	4,031	4,153	-2.4
Petroleum .....	2,545	2,026	2,196	-1.6
Gas .....	963	589	646	-4.3
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	8,678	6,646	6,996	-2.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Delaware</b>							
Retail Sales (thousand megawatthours)							
Residential .....	3,107	3,339	4,190	3.4	33.4	32.1	33.3
Commercial .....	2,685	3,227	3,886	4.2	28.9	31.0	30.8
Industrial .....	3,447	3,779	4,523	3.1	37.1	36.3	35.9
Other .....	60	53	NA	NM	.6	.5	NA
Total .....	9,299	10,398	12,600	3.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	277	305	360	2.9	43.9	42.6	41.0
Commercial .....	188	228	284	4.7	29.8	31.8	32.4
Industrial .....	159	176	233	4.3	25.2	24.6	26.6
Other .....	7	7	NA	NM	1.1	1.0	NA
Total .....	631	716	877	3.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.91	9.13	8.59	-.4	NA	NA	NA
Commercial .....	7.00	7.07	7.31	.5	NA	NA	NA
Industrial .....	4.62	4.65	5.15	1.2	NA	NA	NA
Other .....	11.17	13.17	NA	NM	NA	NA	NA
Total .....	6.78	6.88	6.96	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	5	1	17
Number of Retail Customers.....	280,525	54,829	NA	65,407	NA	7	NA	400,768
Retail Sales (thousand megawatthours) .....	7,844	1,695	NA	949	NA	2,111	NA	12,600
Percentage of Retail Sales .....	62.25	13.46	NA	7.53	NA	16.76	NA	100.00
Revenue from Retail Sales (million dollars) .....	560	139	NA	80	NA	93	4	877
Percentage of Revenue.....	63.90	15.89	NA	9.09	NA	10.61	.50	100.00
Average Retail Price (cents/kWh).....	7.15	8.22	NA	8.40	NA	4.41	.21	6.96

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

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Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>District of Columbia</b>		
NERC Region(s).....		MAAC
Primary Energy Source .....		Petroleum
Net Summer Capability (megawatts).....	806	51
Electric Utilities .....	0	51
Independent Power Producers & Combined Heat and Power .....	806	41
Net Generation (megawatthours) .....	74,144	51
Independent Power Producers & Combined Heat and Power .....	74,144	50
Emissions (thousand metric tons)		
Sulfur Dioxide.....	*	50
Nitrogen Oxide.....	*	51
Carbon Dioxide.....	82	50
Sulfur Dioxide (lbs/MWh).....	8.5	10
Nitrogen Oxide (lbs/MWh).....	5.7	1
Carbon Dioxide (lbs/MWh).....	2,438	1
Total Retail Sales (megawatthours).....	10,946,383	45
Full Service Provider Sales (megawatthours).....	5,725,475	48
Deregulated Sales (megawatthours).....	5,220,908	11
Direct Use (megawatthours).....	384	50
Average Retail Price (cents/kWh).....	7.40	16

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>District of Columbia</b>			
1. Benning.....	Petroleum	Potomac Power Resources	550
2. Buzzard Point.....	Petroleum	Potomac Power Resources	256

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>District of Columbia</b>						
1. Potomac Electric Power Co.....	Investor-Owned	5,725,475	1,522,724	4,115,543	87,208	0
2. Washington Gas Energy Services.....	Power Marketer	2,971,072	228,707	2,553,146	171,036	18,183
3. PEPCO Energy Services.....	Power Marketer	1,913,630	135,728	1,777,902	0	0
Constellation NewEnergy, Inc.....	Power Marketer	269,445	0	0	0	269,445
Total Sales, Top Five Providers.....		10,879,622	1,887,159	8,446,591	258,244	287,628
Percent of Total State Sales.....		99	100	98	97	100

See footnotes at end of tables.



**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>District of Columbia</b>							
<b>Electric Utilities</b> .....	<b>806</b>	<b>806</b>	<b>0</b>	<b>NM</b>	<b>99.6</b>	<b>100.0</b>	<b>0.0</b>
Petroleum.....	806	806	0	NM	99.6	100.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3</b>	<b>0</b>	<b>806</b>	<b>86.2</b>	<b>.4</b>	<b>.0</b>	<b>100.0</b>
Coal.....	3	0	0	NM	.4	.0	.0
Petroleum.....	0	0	806	NM	.0	.0	100.0
<b>Total Electric Industry</b> .....	<b>809</b>	<b>806</b>	<b>806</b>	<b>*</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3	0	0	NM	.4	.0	.0
Petroleum.....	806	806	806	.0	99.6	100.0	100.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>District of Columbia</b>							
<b>Electric Utilities</b> .....	<b>274,252</b>	<b>243,975</b>	<b>0</b>	<b>NM</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>
Petroleum.....	274,252	243,975	0	NM	100.0	100.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>0</b>	<b>0</b>	<b>74,144</b>	<b>NM</b>	<b>.0</b>	<b>.0</b>	<b>100.0</b>
Petroleum.....	0	0	74,144	NM	.0	.0	100.0
<b>Total Electric Industry</b> .....	<b>274,252</b>	<b>243,975</b>	<b>74,144</b>	<b>-13.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	274,252	243,975	74,144	-13.5	100.0	100.0	100.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>District of Columbia</b>				
Petroleum (cents per million Btu).....	326.4	252.9	W	W
Average heat value (Btu per gallon).....	143,271	143,071	142,324	-0.1
Average sulfur Content (percent).....	.9	1.0	.6	-4.3

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>District of Columbia</b>				
Sulfur Dioxide				
Coal .....	—	—	—	NM
Petroleum .....	2	1	*	-17.0
Natural Gas .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	2	1	*	-17.0
Nitrogen Oxide				
Coal .....	—	—	—	NM
Petroleum .....	*	*	*	-3.9
Gas .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	*	*	*	-3.9
Carbon Dioxide				
Coal .....	—	—	—	NM
Petroleum .....	307	259	82	-13.7
Gas .....	—	—	—	NM
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	307	259	82	-13.7

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>District of Columbia</b>							
Retail Sales (thousand megawatthours)							
Residential .....	1,572	1,596	1,754	1.2	15.3	15.5	16.0
Commercial .....	8,093	8,051	8,639	.7	78.6	78.3	78.9
Industrial .....	267	262	267	.0	2.6	2.5	2.4
Other .....	363	372	NA	NM	3.5	3.6	NA
Transportation .....	NA	NA	285	NM	NA	NA	2.6
Total .....	10,295	10,281	10,946	.7	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	117	128	138	1.8	16.0	16.8	17.0
Commercial .....	578	598	635	1.0	78.8	78.5	78.4
Industrial .....	12	11	15	2.5	1.6	1.4	1.8
Other .....	24	24	NA	NM	3.3	3.1	NA
Transportation .....	NA	NA	22	NM	NA	NA	2.7
Total .....	733	762	810	1.1	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.47	8.00	7.84	.5	NA	NA	NA
Commercial .....	7.15	7.43	7.35	.3	NA	NA	NA
Industrial .....	4.63	4.38	5.57	2.1	NA	NA	NA
Other .....	6.72	6.56	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.64	NM	NA	NA	NA
Total .....	7.12	7.41	7.40	.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	3	1	5
Number of Retail Customers.....	198,926	NA	NA	NA	NA	26,574	NA	225,500
Retail Sales (thousand megawatthours) .....	5,725	NA	NA	NA	NA	5,221	NA	10,946
Percentage of Retail Sales .....	52.30	NA	NA	NA	NA	47.70	NA	100.00
Revenue from Retail Sales (million dollars) .....	434	NA	NA	NA	NA	225	150	810
Percentage of Revenue.....	53.64	NA	NA	NA	NA	27.79	18.58	100.00
Average Retail Price (cents/kWh).....	7.58	NA	NA	NA	NA	4.31	2.88	7.40

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Florida</b>		
NERC Region(s).....		FRCC/SERC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	49,418	3
Electric Utilities .....	41,997	1
Independent Power Producers & Combined Heat and Power .....	7,421	12
Net Generation (megawatthours).....	212,610,011	2
Electric Utilities .....	188,034,719	1
Independent Power Producers & Combined Heat and Power .....	24,575,293	12
Emissions (thousand metric tons)		
Sulfur Dioxide .....	468	8
Nitrogen Oxide.....	257	2
Carbon Dioxide.....	128,796	2
Sulfur Dioxide (lbs/MWh).....	4.9	22
Nitrogen Oxide (lbs/MWh).....	2.7	24
Carbon Dioxide (lbs/MWh).....	1,336	28
Total Retail Sales (megawatthours).....	217,378,622	3
Full Service Provider Sales (megawatthours).....	217,378,622	2
Direct Use (megawatthours).....	6,902,953	4
Average Retail Price (cents/kWh).....	7.72	14

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Florida</b>			
1. Crystal River .....	Petroleum, Nuclear, Coal	Florida Power Corp	3,140
2. Martin .....	Petroleum, Gas	Florida Power & Light Co	2,890
3. Fort Myers.....	Petroleum, Gas	Florida Power & Light Co	2,303
4. Turkey Point.....	Gas, Petroleum, Nuclear	Florida Power & Light Co	2,205
5. Sanford.....	Petroleum, Gas	Florida Power & Light Co	2,018
6. Big Bend.....	Petroleum, Coal	Tampa Electric Co	1,852
7. Lauderdale.....	Petroleum, Gas	Florida Power & Light Co	1,699
8. St Lucie .....	Nuclear	Florida Power & Light Co	1,678
9. Port Everglades .....	Gas, Petroleum	Florida Power & Light Co	1,653
10. Manatee.....	Gas, Petroleum	Florida Power & Light Co	1,628

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Florida</b>						
1. Florida Power & Light Co.....	Investor-Owned	99,339,144	53,400,788	41,847,336	3,997,822	93,198
2. Florida Power Corp.....	Investor-Owned	37,956,702	19,428,943	14,527,200	4,000,559	0
3. Tampa Electric Co.....	Investor-Owned	18,242,316	8,264,748	7,398,234	2,579,334	0
4. JEA.....	Public	12,293,323	5,424,721	3,903,196	2,961,410	3,996
5. Gulf Power Co.....	Investor-Owned	10,884,789	5,101,099	3,636,734	2,146,956	0
Total Sales, Top Five Providers.....		178,716,274	91,620,299	71,312,700	15,686,081	97,194
Percent of Total State Sales .....		82	81	84	81	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Florida</b>							
<b>Electric Utilities</b> .....	<b>35,487</b>	<b>36,471</b>	<b>41,997</b>	<b>1.9</b>	<b>91.5</b>	<b>90.8</b>	<b>85.0</b>
Coal.....	10,037	10,676	10,223	.2	25.9	26.6	20.7
Petroleum.....	5,497	5,621	3,033	-6.4	14.2	14.0	6.1
Natural Gas.....	3,381	3,448	6,405	7.4	8.7	8.6	13.0
Dual Fired.....	12,703	12,807	18,376	4.2	32.8	31.9	37.2
Nuclear.....	3,822	3,869	3,902	.2	9.9	9.6	7.9
Hydroelectric.....	47	47	50	.7	.1	.1	.1
Other Renewables.....	0	3	8	NM	.0	*	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,288</b>	<b>3,682</b>	<b>7,421</b>	<b>9.5</b>	<b>8.5</b>	<b>9.2</b>	<b>15.0</b>
Coal.....	502	811	799	5.3	1.3	2.0	1.6
Petroleum.....	66	21	17	-14.0	.2	.1	*
Natural Gas.....	710	1,047	694	-3	1.8	2.6	1.4
Dual Fired.....	703	341	4,606	23.2	1.8	.8	9.3
Other Renewables.....	960	1,115	895	-8	2.5	2.8	1.8
Other.....	347	347	410	1.9	.9	.9	.8
<b>Total Electric Industry</b> .....							
<b>38,775</b>	<b>40,154</b>	<b>49,418</b>	<b>2.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	10,539	11,488	11,022	.5	27.2	28.6	22.3
Petroleum.....	5,562	5,643	3,050	-6.5	14.3	14.1	6.2
Natural Gas.....	4,092	4,495	7,099	6.3	10.6	11.2	14.4
Dual Fired.....	13,406	13,148	22,982	6.2	34.6	32.7	46.5
Nuclear.....	3,822	3,869	3,902	.2	9.9	9.6	7.9
Hydroelectric.....	47	47	50	.7	.1	.1	.1
Other Renewables.....	960	1,117	903	-7	2.5	2.8	1.8
Other.....	347	347	410	1.9	.9	.9	.8

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Florida</b>							
<b>Electric Utilities</b> .....	<b>141,790,885</b>	<b>169,447,167</b>	<b>188,034,719</b>	<b>3.2</b>	<b>89.7</b>	<b>89.4</b>	<b>88.4</b>
Coal.....	60,770,030	65,470,151	62,094,661	.2	38.4	34.5	29.2
Petroleum.....	33,330,039	40,952,580	35,545,897	.7	21.1	21.6	16.7
Natural Gas.....	20,734,235	31,710,512	59,013,591	12.3	13.1	16.7	27.8
Nuclear.....	26,682,107	31,115,419	30,979,481	1.7	16.9	16.4	14.6
Hydroelectric.....	274,474	198,505	262,667	-5	.2	.1	.1
Other Renewables.....	0	0	138,421	NM	.0	.0	.1
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>16,355,961</b>	<b>20,181,829</b>	<b>24,575,293</b>	<b>4.6</b>	<b>10.3</b>	<b>10.6</b>	<b>11.6</b>
Coal.....	2,695,078	4,809,293	5,579,919	8.4	1.7	2.5	2.6
Petroleum.....	567,345	569,071	1,658,672	12.7	.4	.3	.8
Natural Gas.....	5,417,694	7,212,679	9,279,829	6.2	3.4	3.8	4.4
Other Gases.....	34,879	80,305	10,505	-12.5	*	*	*
Other Renewables.....	5,589,623	5,467,332	5,667,271	.2	3.5	2.9	2.7
Other.....	2,051,342	2,043,149	2,379,097	1.7	1.3	1.1	1.1
<b>Total Electric Industry</b> .....	<b>158,146,846</b>	<b>189,628,996</b>	<b>212,610,011</b>	<b>3.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	63,465,108	70,279,444	67,674,580	.7	40.1	37.1	31.8
Petroleum.....	33,897,384	41,521,651	37,204,569	1.0	21.4	21.9	17.5
Natural Gas.....	26,151,929	38,923,191	68,293,420	11.3	16.5	20.5	32.1
Other Gases.....	34,879	80,305	10,505	-12.5	*	*	*
Nuclear.....	26,682,107	31,115,419	30,979,481	1.7	16.9	16.4	14.6
Hydroelectric.....	274,474	198,505	262,667	-5	.2	.1	.1
Other Renewables.....	5,589,623	5,467,332	5,805,692	.4	3.5	2.9	2.7
Other.....	2,051,342	2,043,149	2,379,097	1.7	1.3	1.1	1.1

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Florida</b>				
Coal (cents per million Btu).....	177.8	164.8	175.5	-0.1
Average heat value (Btu per pound).....	12,293	12,144	12,281	*
Average sulfur Content (percent).....	1.6	1.5	1.4	-1.2
Petroleum (cents per million Btu).....	226.0	193.3	388.6	6.2
Average heat value (Btu per gallon).....	151,248	143,814	148,432	-2
Average sulfur Content (percent).....	1.4	1.8	2.0	3.7
Natural Gas (cents per million Btu).....	215.5	276.2	573.3	11.5
Average heat value (Btu per cubic foot).....	1,010	1,053	1,041	.3

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Florida</b>				
Sulfur Dioxide				
Coal .....	416	412	240	-5.9
Petroleum .....	227	310	213	-7
Natural Gas .....	*	*	*	7.3
Other .....	32	14	15	-8.1
Total .....	676	736	468	-4.0
Nitrogen Oxide				
Coal .....	231	191	155	-4.4
Petroleum .....	43	94	62	4.1
Gas .....	31	35	24	-2.5
Other .....	11	12	17	4.3
Total .....	316	332	257	-2.3
Carbon Dioxide				
Coal .....	59,171	67,260	65,078	1.1
Petroleum .....	27,847	34,397	31,166	1.3
Gas .....	12,939	19,439	30,220	9.9
Geothermal .....	—	—	—	NM
Other .....	588	592	2,333	16.5
Total .....	100,545	121,687	128,796	2.8

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Florida</b>							
Retail Sales (thousand megawatthours)							
Residential .....	80,595	95,768	112,650	3.8	50.5	51.1	51.8
Commercial .....	57,447	67,346	85,257	4.5	36.0	35.9	39.2
Industrial .....	16,513	18,448	19,375	1.8	10.3	9.8	8.9
Other .....	4,989	5,792	NA	NM	3.1	3.1	NA
Transportation .....	NA	NA	97	NM	NA	NA	*
Total .....	159,544	187,355	217,379	3.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	6,271	7,557	9,636	4.9	56.5	57.6	57.4
Commercial .....	3,649	4,298	6,083	5.8	32.9	32.7	36.3
Industrial .....	848	887	1,048	2.4	7.6	6.8	6.3
Other .....	335	385	NA	NM	3.0	2.9	NA
Transportation .....	NA	NA	7	NM	NA	NA	*
Total .....	11,103	13,127	16,774	4.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.78	7.89	8.55	1.0	NA	NA	NA
Commercial .....	6.35	6.38	7.13	1.3	NA	NA	NA
Industrial .....	5.13	4.81	5.41	.6	NA	NA	NA
Other .....	6.72	6.64	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.21	NM	NA	NA	NA
Total .....	6.96	7.01	7.72	1.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	1	NA	NA	54
Number of Retail Customers.....	6,649,226	1,195,476	NA	887,981	83	NA	NA	8,732,766
Retail Sales (thousand megawatthours) .....	167,146	33,826	NA	16,399	7	NA	NA	217,379
Percentage of Retail Sales .....	76.89	15.56	NA	7.54	*	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	13,028	2,429	NA	1,317	*	NA	NA	16,774
Percentage of Revenue.....	77.67	14.48	NA	7.85	*	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.79	7.18	NA	8.03	6.38	NA	NA	7.72

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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



**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Georgia</b>		
NERC Region(s).....		SERC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	34,815	7
Electric Utilities .....	24,804	3
Independent Power Producers & Combined Heat and Power .....	10,011	10
Net Generation (megawatthours).....	124,076,834	11
Electric Utilities .....	115,755,114	5
Independent Power Producers & Combined Heat and Power .....	8,321,720	29
Emissions (thousand metric tons)		
Sulfur Dioxide .....	586	5
Nitrogen Oxide .....	121	14
Carbon Dioxide .....	79,356	10
Sulfur Dioxide (lbs/MWh).....	10.4	7
Nitrogen Oxide (lbs/MWh).....	2.2	33
Carbon Dioxide (lbs/MWh).....	1,410	24
Total Retail Sales (megawatthours).....	123,676,657	8
Full Service Provider Sales (megawatthours).....	123,676,657	6
Direct Use (megawatthours).....	5,556,906	6
Average Retail Price (cents/kWh).....	6.32	32

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Georgia</b>			
1. Scherer .....	Petroleum, Coal	Georgia Power Co	3,430
2. Bowen .....	Petroleum, Coal	Georgia Power Co	3,254
3. Vogtle .....	Nuclear	Georgia Power Co	2,301
4. Wansley .....	Petroleum, Coal	Georgia Power Co	1,827
5. Edwin I Hatch .....	Nuclear	Georgia Power Co	1,739
6. Harlee Branch.....	Petroleum, Coal	Georgia Power Co	1,607
7. Yates .....	Petroleum, Gas, Coal	Georgia Power Co	1,295
8. Murray Energy Facility.....	Gas	Duke Energy North Amer-Murray	1,244
9. Wansley .....	Gas	Southern Power Co	1,066
10. Tenaska Georgia Generation Facility .....	Gas, Petroleum	Tenaska Georgia Partners LP	933

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Georgia</b>						
1. Georgia Power Co .....	Investor-Owned	75,018,318	21,778,582	27,356,003	25,703,421	180,312
2. Savannah Electric & Power Co .....	Investor-Owned	4,186,501	1,738,489	1,587,662	860,350	0
3. Jackson Electric Member Corp.....	Cooperative	3,895,718	2,240,198	1,165,344	490,176	0
4. Cobb Electric Membership Corp.....	Cooperative	3,334,246	2,069,353	1,060,318	204,575	0
5. North Georgia Elec Member Corp .....	Cooperative	2,542,727	1,348,285	468,679	725,763	0
Total Sales, Top Five Providers.....		88,977,510	29,174,907	31,638,006	27,984,285	180,312
Percent of Total State Sales .....		72	61	78	80	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Georgia</b>							
<b>Electric Utilities</b> .....	<b>22,038</b>	<b>23,391</b>	<b>24,804</b>	<b>1.3</b>	<b>94.1</b>	<b>93.2</b>	<b>71.2</b>
Coal.....	13,164	13,540	13,331	.1	56.2	54.0	38.3
Petroleum.....	1,057	1,018	991	-7	4.5	4.1	2.8
Natural Gas.....	33	35	1,721	55.2	.1	.1	4.9
Dual Fired.....	1,092	1,392	1,170	.8	4.7	5.5	3.4
Nuclear.....	3,840	3,947	4,040	.6	16.4	15.7	11.6
Hydroelectric.....	2,029	2,335	2,097	.4	8.7	9.3	6.0
Pumped Storage.....	823	1,124	1,454	6.5	3.5	4.5	4.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,392</b>	<b>1,692</b>	<b>10,011</b>	<b>24.5</b>	<b>5.9</b>	<b>6.7</b>	<b>28.8</b>
Coal.....	64	51	317	19.5	.3	.2	.9
Petroleum.....	197	189	307	5.1	.8	.8	.9
Natural Gas.....	27	305	5,364	80.0	.1	1.2	15.4
Dual Fired.....	397	389	3,613	27.8	1.7	1.6	10.4
Hydroelectric.....	13	11	11	-1.8	.1	*	*
Other Renewables.....	694	747	399	-6.0	3.0	3.0	1.1
<b>Total Electric Industry</b> .....							
<b>Coal</b> .....	<b>23,431</b>	<b>25,086</b>	<b>34,815</b>	<b>4.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	13,228	13,591	13,648	.3	56.5	54.2	39.2
Petroleum.....	1,253	1,207	1,297	.4	5.3	4.8	3.7
Natural Gas.....	61	340	7,084	69.6	.3	1.4	20.3
Dual Fired.....	1,489	1,782	4,784	13.8	6.4	7.1	13.7
Nuclear.....	3,840	3,947	4,040	.6	16.4	15.7	11.6
Hydroelectric.....	2,043	2,347	2,109	.4	8.7	9.4	6.1
Other Renewables.....	694	748	399	-6.0	3.0	3.0	1.1
Pumped Storage.....	823	1,124	1,454	6.5	3.5	4.5	4.2

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Georgia</b>							
<b>Electric Utilities</b> .....	<b>98,752,712</b>	<b>108,716,930</b>	<b>115,755,114</b>	<b>1.8</b>	<b>94.6</b>	<b>94.3</b>	<b>93.3</b>
Coal.....	64,727,519	69,871,150	77,858,022	2.1	62.0	60.6	62.8
Petroleum.....	161,235	670,924	278,618	6.3	.2	.6	.2
Natural Gas.....	79,854	1,768,783	890,600	30.7	.1	1.5	.7
Nuclear.....	28,927,090	31,380,401	33,256,649	1.6	27.7	27.2	26.8
Hydroelectric.....	4,278,558	5,198,370	4,107,318	-5	4.1	4.5	3.3
Pumped Storage.....	578,456	-172,698	-636,093	NM	.6	-1	-5
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>5,603,697</b>	<b>6,606,776</b>	<b>8,321,720</b>	<b>4.5</b>	<b>5.4</b>	<b>5.7</b>	<b>6.7</b>
Coal.....	971,233	1,006,902	780,467	-2.4	.9	.9	.6
Petroleum.....	837,044	900,267	915,441	1.0	.8	.8	.7
Natural Gas.....	554,097	1,524,357	3,386,391	22.3	.5	1.3	2.7
Hydroelectric.....	52,877	36,151	32,952	-5.1	.1	*	*
Other Renewables.....	3,188,446	3,132,418	3,206,469	.1	3.1	2.7	2.6
Other.....	0	6,681	0	NM	.0	*	.0
<b>Total Electric Industry</b> .....							
<b>104,356,409</b>	<b>115,323,706</b>	<b>124,076,834</b>	<b>1.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	65,698,752	70,878,052	78,638,489	2.0	63.0	61.5	63.4
Petroleum.....	998,279	1,571,191	1,194,059	2.0	1.0	1.4	1.0
Natural Gas.....	633,951	3,293,140	4,276,991	23.6	.6	2.9	3.4
Nuclear.....	28,927,090	31,380,401	33,256,649	1.6	27.7	27.2	26.8
Hydroelectric.....	4,331,435	5,234,521	4,140,270	-5	4.2	4.5	3.3
Other Renewables.....	3,188,446	3,132,418	3,206,469	.1	3.1	2.7	2.6
Pumped Storage.....	578,456	-172,698	-636,093	NM	.6	-1	-5
Other.....	0	6,681	0	NM	.0	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Georgia</b>				
Coal (cents per million Btu).....	169.1	154.5	171.9	0.2
Average heat value (Btu per pound).....	11,774	11,750	11,668	-1
Average sulfur Content (percent).....	1.1	.8	.8	-2.8
Petroleum (cents per million Btu).....	396.3	327.6	267.9	-4.3
Average heat value (Btu per gallon).....	138,484	138,497	134,648	-3
Average sulfur Content (percent).....	.5	.5	4.3	27.2
Natural Gas (cents per million Btu).....	320.8	316.0	571.7	6.6
Average heat value (Btu per cubic foot).....	1,025	1,028	1,035	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Georgia</b>				
Sulfur Dioxide				
Coal .....	528	475	517	-0.2
Petroleum .....	4	14	42	30.8
Natural Gas .....	—	*	*	NM
Other .....	33	21	27	-2.2
Total .....	564	510	586	.4
Nitrogen Oxide				
Coal .....	228	172	105	-8.2
Petroleum .....	4	4	5	2.3
Gas .....	2	5	2	3.0
Other .....	10	10	9	-1.1
Total .....	243	190	121	-7.5
Carbon Dioxide				
Coal .....	62,103	69,660	74,703	2.1
Petroleum .....	2,645	2,985	2,320	-1.4
Gas .....	888	2,793	2,175	10.5
Geothermal .....	—	—	—	NM
Other .....	—	17	159	NM
Total .....	65,636	75,455	79,356	2.1

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Georgia</b>							
Retail Sales (thousand megawatthours)							
Residential .....	32,735	41,519	48,174	4.4	36.4	37.5	38.9
Commercial .....	26,161	32,766	40,554	5.0	29.1	29.6	32.8
Industrial .....	29,942	35,077	34,768	1.7	33.3	31.7	28.1
Other .....	1,075	1,358	NA	NM	1.2	1.2	NA
Transportation .....	NA	NA	180	NM	NA	NA	.1
Total .....	89,913	110,720	123,677	3.6	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	2,527	3,185	3,711	4.4	42.8	44.9	47.5
Commercial .....	1,918	2,297	2,699	3.9	32.5	32.4	34.5
Industrial .....	1,368	1,483	1,397	.2	23.2	20.9	17.9
Other .....	94	122	NA	NM	1.6	1.7	NA
Transportation .....	NA	NA	9	NM	NA	NA	.1
Total .....	5,907	7,087	7,816	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.72	7.67	7.70	*	NA	NA	NA
Commercial .....	7.33	7.01	6.66	-1.1	NA	NA	NA
Industrial .....	4.57	4.23	4.02	-1.4	NA	NA	NA
Other .....	8.71	8.99	NA	NM	NA	NA	NA
Transportation .....	NA	NA	4.81	NM	NA	NA	NA
Total .....	6.57	6.40	6.32	-4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Georgia</b>								
Number of Entities.....	2	53	NA	43	NA	NA	NA	98
Number of Retail Customers.....	2,158,412	329,152	NA	1,668,488	NA	NA	NA	4,156,052
Retail Sales (thousand megawatthours) .....	79,205	11,494	NA	32,978	NA	NA	NA	123,677
Percentage of Retail Sales .....	64.04	9.29	NA	26.66	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	4,608	753	NA	2,455	NA	NA	NA	7,816
Percentage of Revenue.....	58.96	9.64	NA	31.41	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.82	6.55	NA	7.44	NA	NA	NA	6.32

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

Other Notes: NA = Not applicable; NM = Not meaningful;

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Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Hawaii</b>		
NERC Region(s).....		--
Primary Energy Source .....		Petroleum
Net Summer Capability (megawatts).....	2,268	47
Electric Utilities .....	1,624	41
Independent Power Producers & Combined Heat and Power .....	644	43
Net Generation (megawatthours).....	10,976,371	44
Electric Utilities .....	6,493,205	39
Independent Power Producers & Combined Heat and Power .....	4,483,166	36
Emissions (thousand metric tons)		
Sulfur Dioxide.....	23	39
Nitrogen Oxide.....	13	42
Carbon Dioxide.....	8,545	42
Sulfur Dioxide (lbs/MWh).....	4.6	24
Nitrogen Oxide (lbs/MWh).....	2.6	27
Carbon Dioxide (lbs/MWh).....	1,716	17
Total Retail Sales (megawatthours).....	10,390,836	47
Full Service Provider Sales (megawatthours).....	10,390,836	44
Direct Use (megawatthours).....	480,116	36
Average Retail Price (cents/kWh).....	14.47	1

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Hawaii</b>			
1. Kahe.....	Petroleum	Hawaiian Electric Co Inc	582
2. Waiau.....	Petroleum	Hawaiian Electric Co Inc	457
3. Maalaea.....	Petroleum	Maui Electric Co Ltd	190
4. AES Hawaii.....	Petroleum, Other, Coal	AES Hawaii Inc	180
5. Kalaeola Cogen Plant.....	Petroleum	Kalaeloa Partners LP	180
6. Honolulu.....	Petroleum	Hawaiian Electric Co Inc	100
7. Port Allen.....	Petroleum	Kauai Island Utility Cooperative	96
8. Hamakua Energy Plant.....	Other	Hamakua Energy Partners LP	61
9. H Power.....	Petroleum, Other	Honolulu Resource Recovery Venture	60
10. Hawaiian Comm & Sugar Puunene Mill.....	Petroleum, Coal, Other	Hawaiian Com & Sugar Co Ltd	46

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Hawaii</b>						
1. Hawaiian Electric Co Inc.....	Investor-Owned	7,522,230	2,066,522	2,401,376	3,054,332	0
2. Maui Electric Co Ltd.....	Investor-Owned	1,206,719	419,511	394,431	392,777	0
3. Hawaii Electric Light Co Inc.....	Investor-Owned	1,046,147	389,874	426,906	229,367	0
4. Kauai Island Utility Coop.....	Cooperative	431,314	151,673	118,269	161,372	0
Total Sales, Top Five Providers.....		10,206,410	3,027,580	3,340,982	3,837,848	0
Percent of Total State Sales.....		98	100	95	100	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Hawaii</b>							
<b>Electric Utilities</b> .....	<b>1,601</b>	<b>1,616</b>	<b>1,624</b>	<b>0.2</b>	<b>67.6</b>	<b>68.9</b>	<b>71.6</b>
Petroleum.....	1,598	1,594	1,620	.2	67.5	68.0	71.4
Natural Gas.....	0	18	0	NM	.0	.8	.0
Hydroelectric.....	3	4	2	-4.4	.1	.2	.1
Other Renewables.....	0	0	2	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>766</b>	<b>729</b>	<b>644</b>	<b>-1.9</b>	<b>32.4</b>	<b>31.1</b>	<b>28.4</b>
Coal.....	213	213	202	-6	9.0	9.1	8.9
Petroleum.....	276	276	212	-2.9	11.7	11.8	9.3
Natural Gas.....	0	0	50	NM	.0	.0	2.2
Other Gases.....	8	8	9	1.3	.3	.3	.4
Hydroelectric.....	24	25	20	-2.0	1.0	1.1	.9
Other Renewables.....	245	207	151	-5.2	10.4	8.8	6.7
<b>Total Electric Industry</b> .....	<b>2,367</b>	<b>2,344</b>	<b>2,268</b>	<b>-.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	213	213	202	-6	9.0	9.1	8.9
Petroleum.....	1,874	1,870	1,832	-3	79.2	79.8	80.8
Natural Gas.....	0	18	50	NM	.0	.8	2.2
Other Gases.....	8	8	9	1.3	.3	.3	.4
Hydroelectric.....	27	28	22	-2.3	1.1	1.2	1.0
Other Renewables.....	245	207	153	-5.1	10.4	8.8	6.7

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Hawaii</b>							
<b>Electric Utilities</b> .....	<b>6,055,087</b>	<b>6,301,169</b>	<b>6,493,205</b>	<b>0.8</b>	<b>59.9</b>	<b>61.6</b>	<b>59.2</b>
Petroleum.....	6,036,282	6,287,107	6,489,565	.8	59.7	61.5	59.1
Hydroelectric.....	18,805	13,750	2,078	-21.7	.2	.1	*
Other Renewables.....	0	312	1,562	NM	.0	*	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>4,053,815</b>	<b>3,926,913</b>	<b>4,483,167</b>	<b>1.1</b>	<b>40.1</b>	<b>38.4</b>	<b>40.8</b>
Coal.....	1,326,742	1,434,868	1,644,137	2.4	13.1	14.0	15.0
Petroleum.....	1,604,631	1,563,961	2,012,985	2.6	15.9	15.3	18.3
Other Gases.....	65,719	60,443	40,251	-5.3	.6	.6	.4
Hydroelectric.....	120,621	107,523	88,427	-3.4	1.2	1.1	.8
Other Renewables.....	936,102	760,118	695,204	-3.3	9.3	7.4	6.3
Other.....	0	0	2,162	NM	.0	.0	*
<b>Total Electric Industry</b> .....	<b>10,108,902</b>	<b>10,228,082</b>	<b>10,976,371</b>	<b>.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,326,742	1,434,868	1,644,137	2.4	13.1	14.0	15.0
Petroleum.....	7,640,913	7,851,068	8,502,550	1.2	75.6	76.8	77.5
Other Gases.....	65,719	60,443	40,251	-5.3	.6	.6	.4
Hydroelectric.....	139,426	121,273	90,505	-4.7	1.4	1.2	.8
Other Renewables.....	936,102	760,430	696,766	-3.2	9.3	7.4	6.3
Other.....	0	0	2,162	NM	.0	.0	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Hawaii</b>				
Coal (cents per million Btu).....	0.0	0.0	W	W
Average heat value (Btu per pound).....	0	0	11,422	NM
Average sulfur Content (percent).....	.0	.0	.4	NM
Petroleum (cents per million Btu).....	271.2	261.5	W	W
Average heat value (Btu per gallon).....	149,700	149,205	140,582	-0.7
Average sulfur Content (percent).....	.4	.4	.4	-4

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Hawaii</b>				
<b>Sulfur Dioxide</b>				
Coal .....	3	5	1	-9.9
Petroleum .....	17	23	22	2.4
Natural Gas .....	—	—	—	NM
Other.....	*	*	*	3.2
Total .....	21	28	23	1.1
<b>Nitrogen Oxide</b>				
Coal .....	5	6	2	-12.0
Petroleum .....	9	9	10	.5
Gas.....	—	—	—	NM
Other.....	1	1	2	9.5
Total .....	15	16	13	-1.9
<b>Carbon Dioxide</b>				
Coal .....	1,354	1,478	1,699	2.6
Petroleum .....	6,367	6,584	6,633	.5
Gas.....	—	—	—	NM
Geothermal.....	5	6	5	-.5
Other.....	65	59	209	13.9
Total .....	7,790	8,127	8,545	1.0

See footnotes at end of tables.



**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Hawaii</b>							
Retail Sales (thousand megawatthours)							
Residential.....	2,557	2,641	3,028	1.9	28.6	28.5	29.1
Commercial.....	2,543	2,776	3,517	3.7	28.4	30.0	33.8
Industrial.....	3,791	3,787	3,846	.2	42.4	40.9	37.0
Other.....	58	57	NA	NM	.6	.6	NA
Total.....	8,948	9,261	10,391	1.7	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	318	365	507	5.3	33.3	34.1	33.7
Commercial.....	297	342	528	6.6	31.1	32.0	35.1
Industrial.....	334	357	469	3.8	34.9	33.4	31.2
Other.....	7	7	NA	NM	.7	.6	NA
Total.....	956	1,070	1,504	5.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	12.45	13.82	16.73	3.3	NA	NA	NA
Commercial.....	11.67	12.31	15.02	2.8	NA	NA	NA
Industrial.....	8.82	9.41	12.20	3.7	NA	NA	NA
Other.....	11.21	12.28	NA	NM	NA	NA	NA
Total.....	10.68	11.56	14.47	3.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	3	NA	NA	7
Number of Retail Customers.....	415,208	NA	NA	32,361	15	NA	NA	447,584
Retail Sales (thousand megawatthours).....	9,775	NA	NA	431	184	NA	NA	10,391
Percentage of Retail Sales.....	94.07	NA	NA	4.15	1.77	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,388	NA	NA	97	19	NA	NA	1,504
Percentage of Revenue.....	92.28	NA	NA	6.44	1.28	NA	NA	100.00
Average Retail Price (cents/kWh).....	14.20	NA	NA	22.45	10.46	NA	NA	14.47

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Idaho</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Hydro
Net Summer Capability (megawatts).....	3,002	45
Electric Utilities .....	2,438	38
Independent Power Producers & Combined Heat and Power .....	564	44
Net Generation (megawatthours).....	10,422,935	45
Electric Utilities .....	7,732,812	38
Independent Power Producers & Combined Heat and Power .....	2,690,123	39
Emissions (thousand metric tons)		
Sulfur Dioxide.....	6	47
Nitrogen Oxide.....	3	48
Carbon Dioxide.....	1,103	49
Sulfur Dioxide (lbs/MWh).....	1.4	45
Nitrogen Oxide (lbs/MWh).....	.5	48
Carbon Dioxide (lbs/MWh).....	233	50
Total Retail Sales (megawatthours).....	21,218,685	38
Full Service Provider Sales (megawatthours).....	21,218,685	38
Direct Use (megawatthours).....	710,470	31
Average Retail Price (cents/kWh).....	5.22	48

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Idaho</b>			
1. Brownlee.....	Hydro	Idaho Power Co	562
2. Dworshak.....	Hydro	USCE-North Pacific Division	460
3. Cabinet Gorge .....	Hydro	Avista Corporation	271
4. Rathdrum Power LLC.....	Gas	Rathdrum Operating Services Co., Inc.	248
5. Palisades .....	Hydro	U S Bureau of Reclamation	176
6. Rathdrum .....	Gas	Avista Corporation	136
7. C J Strike.....	Hydro	Idaho Power Co	89
8. Bliss .....	Hydro	Idaho Power Co	80
9. Evander Andrews Power Complex.....	Gas	Idaho Power Co	76
10. Lucky Peak Power Plant Project .....	Hydro	Boise-Kuna Irrigation District	75

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Idaho</b>						
1. Idaho Power Co.....	Investor-Owned	12,351,079	4,238,675	3,361,557	4,750,847	0
2. PacifiCorp .....	Investor-Owned	3,280,360	585,685	369,488	2,325,187	0
3. Avista Corporation.....	Investor-Owned	2,924,041	1,034,089	916,427	973,525	0
4. Idaho Falls City of.....	Public	609,354	267,737	294,047	47,570	0
5. Kootenai Electric Coop Inc.....	Cooperative	311,622	213,825	83,056	14,741	0
Total Sales, Top Five Providers.....		19,476,456	6,340,011	5,024,575	8,111,870	0
Percent of Total State Sales .....		92	89	92	94	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Idaho</b>							
<b>Electric Utilities</b> .....	<b>2,500</b>	<b>2,577</b>	<b>2,438</b>	<b>-0.3</b>	<b>85.9</b>	<b>85.6</b>	<b>81.2</b>
Petroleum.....	6	6	5	-2.0	.2	.2	.2
Natural Gas.....	136	136	212	5.1	4.7	4.5	7.1
Hydroelectric.....	2,358	2,435	2,221	-7	81.1	80.9	74.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>410</b>	<b>434</b>	<b>564</b>	<b>3.6</b>	<b>14.1</b>	<b>14.4</b>	<b>18.8</b>
Coal.....	17	18	17	.0	.6	.6	.6
Natural Gas.....	0	18	269	NM	.0	.6	9.0
Hydroelectric.....	247	252	193	-2.7	8.5	8.4	6.4
Other Renewables.....	131	131	70	-6.7	4.5	4.4	2.3
Other.....	15	15	15	.0	.5	.5	.5
<b>Total Electric Industry</b> .....	<b>2,909</b>	<b>3,009</b>	<b>3,002</b>	<b>.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	17	18	17	.0	.6	.6	.6
Petroleum.....	6	6	5	-2.0	.2	.2	.2
Natural Gas.....	136	154	481	15.1	4.7	5.1	16.0
Hydroelectric.....	2,605	2,686	2,414	-8	89.5	89.3	80.4
Other Renewables.....	130	130	70	-6.6	4.5	4.3	2.3
Other.....	15	15	15	.0	.5	.5	.5

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Idaho</b>							
<b>Electric Utilities</b> .....	<b>7,303,193</b>	<b>11,978,079</b>	<b>7,732,812</b>	<b>0.6</b>	<b>83.7</b>	<b>86.1</b>	<b>74.2</b>
Petroleum.....	31	253	116	15.8	.0	*	*
Natural Gas.....	0	0	61,229	NM	.0	.0	.6
Hydroelectric.....	7,303,162	11,977,826	7,671,467	.5	83.7	86.1	73.6
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,423,604</b>	<b>1,930,594</b>	<b>2,690,124</b>	<b>7.3</b>	<b>16.3</b>	<b>13.9</b>	<b>25.8</b>
Coal.....	38,038	48,120	90,290	10.1	.4	.3	.9
Petroleum.....	34	372	0	NM	.0	*	.0
Natural Gas.....	159,061	337,152	1,313,591	26.4	1.8	2.4	12.6
Hydroelectric.....	612,991	957,724	682,567	1.2	7.0	6.9	6.5
Other Renewables.....	528,342	503,712	540,953	.3	6.1	3.6	5.2
Other.....	85,138	83,514	62,722	-3.3	1.0	.6	.6
<b>Total Electric Industry</b> .....	<b>8,726,797</b>	<b>13,908,673</b>	<b>10,422,935</b>	<b>2.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	38,038	48,120	90,290	10.1	.4	.3	.9
Petroleum.....	65	625	116	6.6	*	*	*
Natural Gas.....	159,061	337,152	1,374,820	27.1	1.8	2.4	13.2
Hydroelectric.....	7,916,153	12,935,550	8,354,034	.6	90.7	93.0	80.1
Other Renewables.....	528,342	503,712	540,953	.3	6.1	3.6	5.2
Other.....	85,138	83,514	62,722	-3.3	1.0	.6	.6

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Idaho</b>				
Natural Gas (cents per million Btu).....	0.0	0.0	W	W
Average heat value (Btu per cubic foot).....	0	0	1,018	NM

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Idaho</b>				
<b>Sulfur Dioxide</b>				
Coal .....	5	6	3	-3.7
Petroleum .....	—	*	—	NM
Natural Gas .....	—	—	—	NM
Other.....	3	3	3	-7
Total .....	8	9	6	-2.4
<b>Nitrogen Oxide</b>				
Coal .....	1	2	1	-8
Petroleum .....	—	—	—	NM
Gas.....	1	1	*	-4.2
Other.....	1	1	1	-6
Total .....	3	4	3	-1.4
<b>Carbon Dioxide</b>				
Coal .....	284	398	498	6.4
Petroleum .....	*	1	*	-4.6
Gas.....	344	527	605	6.5
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total .....	628	927	1,103	6.5

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Idaho</b>							
Retail Sales (thousand megawatthours)							
Residential.....	6,222	6,610	7,090	1.5	31.3	29.9	33.4
Commercial.....	5,638	6,005	5,466	-.3	28.4	27.2	25.8
Industrial.....	7,647	9,193	8,663	1.4	38.5	41.6	40.8
Other.....	373	268	NA	NM	1.9	1.2	NA
Total.....	19,879	22,077	21,219	.7	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	317	349	443	3.8	39.8	39.2	40.0
Commercial.....	246	261	304	2.4	30.9	29.3	27.5
Industrial.....	216	269	360	5.8	27.1	30.2	32.5
Other.....	17	12	NA	NM	2.1	1.3	NA
Total.....	796	891	1,107	3.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	5.09	5.28	6.24	2.3	NA	NA	NA
Commercial.....	4.37	4.34	5.56	2.7	NA	NA	NA
Industrial.....	2.82	2.77	4.16	4.4	NA	NA	NA
Other.....	4.64	4.59	NA	NM	NA	NA	NA
Total.....	4.00	4.02	5.22	3.0	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Idaho</b>								
Number of Entities.....	4	11	NA	16	1	NA	NA	32
Number of Retail Customers.....	577,986	39,497	NA	69,850	1	NA	NA	687,334
Retail Sales (thousand megawatthours).....	18,556	1,033	NA	1,625	5	NA	NA	21,219
Percentage of Retail Sales.....	87.45	4.87	NA	7.66	.02	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	941	66	NA	100	*	NA	NA	1,107
Percentage of Revenue.....	85.04	5.92	NA	9.01	.02	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.07	6.35	NA	6.14	5.14	NA	NA	5.22

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Illinois</b>		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	45,541	4
Electric Utilities .....	3,007	36
Independent Power Producers & Combined Heat and Power .....	42,536	2
Net Generation (megawatthours).....	189,055,260	5
Electric Utilities .....	9,563,746	36
Independent Power Producers & Combined Heat and Power .....	179,491,514	2
Emissions (thousand metric tons)		
Sulfur Dioxide.....	372	11
Nitrogen Oxide.....	144	9
Carbon Dioxide.....	94,941	6
Sulfur Dioxide (lbs/MWh).....	4.3	28
Nitrogen Oxide (lbs/MWh).....	1.7	38
Carbon Dioxide (lbs/MWh).....	1,107	37
Total Retail Sales (megawatthours).....	136,247,891	7
Full Service Provider Sales (megawatthours).....	115,070,513	8
Deregulated Sales (megawatthours).....	21,177,378	4
Direct Use (megawatthours).....	4,275,912	10
Average Retail Price (cents/kWh).....	6.86	21

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Illinois</b>			
1. Collins.....	Gas, Petroleum	Midwest Generations EME LLC	2,671
2. Braidwood Generation Station.....	Nuclear	Exelon Generation Co LLC	2,362
3. Byron Generating Station .....	Nuclear	Exelon Generation Co LLC	2,356
4. LaSalle Generating Station .....	Nuclear	Exelon Generation Co LLC	2,293
5. Baldwin Energy Complex.....	Petroleum, Other, Coal	Dynegy Midwest Generation Inc	1,761
6. Quad Cities Generating Station.....	Nuclear	Exelon Generation Co LLC	1,728
7. Dresden Generating Station .....	Nuclear	Exelon Generation Co LLC	1,700
8. Powerton.....	Gas, Coal	Midwest Generations EME LLC	1,538
9. Elwood Energy LLC.....	Gas	Dominion Elwood Services Co	1,350
10. Kincaid Generation, L.L.C.....	Gas, Coal	Dominion Energy Services Co	1,168

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Illinois</b>						
1. Commonwealth Edison Co.....	Investor-Owned	68,384,237	26,205,407	28,575,395	13,119,486	483,949
2. Illinois Power Co.....	Investor-Owned	16,217,433	5,309,031	4,785,609	6,122,793	0
3. Central Illinois Light Co.....	Power Marketer	9,573,886	1,891,968	2,189,804	5,492,114	0
4. Central Illinois Pub Serv Co.....	Power Marketer	7,570,504	2,987,422	2,393,818	2,189,264	0
5. Constellation NewEnergy, Inc.....	Power Marketer	5,528,606	0	1,343,133	4,185,473	0
Total Sales, Top Five Providers.....		107,274,666	36,393,828	39,287,759	31,109,130	483,949
Percent of Total State Sales.....		79	84	79	72	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Illinois</b>							
<b>Electric Utilities.....</b>	<b>32,952</b>	<b>30,366</b>	<b>3,007</b>	<b>-23.4</b>	<b>98.0</b>	<b>93.5</b>	<b>6.6</b>
Coal.....	15,090	14,250	1,866	-20.7	44.9	43.9	4.1
Petroleum.....	1,951	1,227	331	-17.9	5.8	3.8	.7
Natural Gas.....	2,538	3,687	127	-28.3	7.5	11.4	.3
Dual Fired.....	752	660	671	-1.3	2.2	2.0	1.5
Nuclear.....	12,609	10,529	0	NM	37.5	32.4	.0
Hydroelectric.....	12	13	12	.0	*	*	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power.....</b>	<b>689</b>	<b>2,108</b>	<b>42,536</b>	<b>58.1</b>	<b>2.0</b>	<b>6.5</b>	<b>93.4</b>
Coal.....	357	1,643	13,795	50.1	1.1	5.1	30.3
Petroleum.....	7	6	915	71.8	*	*	2.0
Natural Gas.....	171	222	12,163	60.6	.5	.7	26.7
Other Gases.....	50	45	40	-2.4	.1	.1	.1
Dual Fired.....	53	33	3,923	61.3	.2	.1	8.6
Nuclear.....	0	0	11,465	NM	.0	.0	25.2
Hydroelectric.....	18	21	21	1.7	.1	.1	*
Other Renewables.....	33	131	214	23.1	.1	.4	.5
Other.....	0	7	0	NM	.0	*	.0
<b>Total Electric Industry.....</b>	<b>33,641</b>	<b>32,473</b>	<b>45,541</b>	<b>3.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	15,447	15,892	15,661	.2	45.9	48.9	34.4
Petroleum.....	1,958	1,234	1,246	-4.9	5.8	3.8	2.7
Natural Gas.....	2,709	3,908	12,289	18.3	8.1	12.0	27.0
Other Gases.....	50	45	40	-2.4	.1	.1	.1
Dual Fired.....	805	693	4,594	21.4	2.4	2.1	10.1
Nuclear.....	12,609	10,529	11,465	-1.1	37.5	32.4	25.2
Hydroelectric.....	30	34	33	1.1	.1	.1	.1
Other Renewables.....	33	131	213	23.0	.1	.4	.5
Other.....	0	7	0	NM	.0	*	.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Illinois</b>							
<b>Electric Utilities</b> .....	<b>137,745,525</b>	<b>131,273,709</b>	<b>9,563,746</b>	<b>-25.6</b>	<b>97.5</b>	<b>94.8</b>	<b>5.1</b>
Coal.....	61,213,625	70,306,091	9,390,702	-18.8	43.3	50.8	5.0
Petroleum.....	1,207,908	838,107	48,792	-30.0	.9	.6	*
Natural Gas.....	2,624,471	4,483,112	53,174	-35.2	1.9	3.2	*
Nuclear.....	72,654,499	55,595,668	0	NM	51.4	40.2	.0
Hydroelectric.....	45,022	50,731	71,078	5.2	*	*	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,553,770</b>	<b>7,190,853</b>	<b>179,491,514</b>	<b>54.6</b>	<b>2.5</b>	<b>5.2</b>	<b>94.9</b>
Coal.....	1,784,788	5,049,070	78,590,647	52.3	1.3	3.6	41.6
Petroleum.....	35,548	24,314	1,072,125	46.0	*	*	.6
Natural Gas.....	1,108,583	1,041,230	3,849,288	14.8	.8	.8	2.0
Other Gases.....	259,174	342,824	203,627	-2.6	.2	.2	.1
Nuclear.....	0	0	94,733,036	NM	.0	.0	50.1
Hydroelectric.....	75,611	86,982	67,422	-1.3	.1	.1	*
Other Renewables.....	290,066	627,123	974,495	14.4	.2	.5	.5
Other.....	0	19,310	874	NM	.0	*	.0
<b>Total Electric Industry</b> .....	<b>141,299,295</b>	<b>138,464,562</b>	<b>189,055,260</b>	<b>3.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	62,998,413	75,355,161	87,981,349	3.8	44.6	54.4	46.5
Petroleum.....	1,243,456	862,421	1,120,917	-1.1	.9	.6	.6
Natural Gas.....	3,733,054	5,524,342	3,902,462	.5	2.6	4.0	2.1
Other Gases.....	259,174	342,824	203,627	-2.6	.2	.2	.1
Nuclear.....	72,654,499	55,595,668	94,733,036	3.0	51.4	40.2	50.1
Hydroelectric.....	120,633	137,713	138,500	1.5	.1	.1	.1
Other Renewables.....	290,066	627,123	974,495	14.4	.2	.5	.5
Other.....	0	19,310	874	NM	.0	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Illinois</b>				
Coal (cents per million Btu).....	160.6	155.7	115.9	-3.6
Average heat value (Btu per pound).....	10,181	9,700	9,176	-1.1
Average sulfur Content (percent).....	1.5	1.1	.7	-8.4
Petroleum (cents per million Btu).....	279.6	234.2	539.9	7.6
Average heat value (Btu per gallon).....	148,945	130,831	147,876	-1
Average sulfur Content (percent).....	.6	1.5	.5	-3.1
Natural Gas (cents per million Btu).....	200.0	220.7	567.4	12.3
Average heat value (Btu per cubic foot).....	1,022	1,019	1,016	-1

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Illinois</b>				
Sulfur Dioxide				
Coal .....	761	727	367	-7.8
Petroleum .....	11	16	4	-10.2
Natural Gas .....	*	*	*	1.6
Other .....	*	*	1	28.8
Total .....	772	743	372	-7.8
Nitrogen Oxide				
Coal .....	370	282	139	-10.3
Petroleum .....	2	1	2	-.5
Gas .....	7	9	3	-7.2
Other .....	2	3	1	-6.8
Total .....	380	294	144	-10.2
Carbon Dioxide				
Coal .....	67,782	80,733	90,896	3.3
Petroleum .....	1,427	1,279	1,110	-2.8
Gas .....	3,379	5,058	2,775	-2.2
Geothermal .....	—	—	—	NM
Other .....	—	46	160	NM
Total .....	72,588	87,116	94,941	3.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Illinois</b>							
Retail Sales (thousand megawatthours)							
Residential .....	35,706	39,707	43,161	2.1	29.4	30.1	31.7
Commercial .....	35,663	39,792	49,561	3.7	29.3	30.2	36.4
Industrial .....	41,765	43,377	43,042	.3	34.4	32.9	31.6
Other .....	8,356	8,820	NA	NM	6.9	6.7	NA
Transportation .....	NA	NA	484	NM	NA	NA	.4
Total .....	121,490	131,697	136,248	1.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	3,564	3,910	3,616	.2	39.6	39.8	38.7
Commercial .....	2,739	3,093	3,618	3.1	30.4	31.5	38.7
Industrial .....	2,164	2,215	2,092	-.4	24.0	22.6	22.4
Other .....	541	600	NA	NM	6.0	6.1	NA
Transportation .....	NA	NA	28	NM	NA	NA	.3
Total .....	9,008	9,817	9,353	.4	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	9.98	9.85	8.38	-1.9	NA	NA	NA
Commercial .....	7.68	7.77	7.30	-.6	NA	NA	NA
Industrial .....	5.18	5.11	4.86	-.7	NA	NA	NA
Other .....	6.47	6.80	NA	NM	NA	NA	NA
Transportation .....	NA	NA	5.87	NM	NA	NA	NA
Total .....	7.41	7.46	6.86	-.8	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Illinois</b>								
Number of Entities.....	9	41	NA	27	1	11	3	92
Number of Retail Customers.....	4,931,955	254,387	NA	258,814	1	12,642	NA	5,457,799
Retail Sales (thousand megawatthours) .....	103,502	6,483	NA	4,619	466	21,177	NA	136,248
Percentage of Retail Sales .....	75.97	4.76	NA	3.39	.34	15.54	NA	100.00
Revenue from Retail Sales (million dollars) .....	7,281	428	NA	412	14	851	366	9,353
Percentage of Revenue.....	77.85	4.58	NA	4.41	.15	9.10	3.91	100.00
Average Retail Price (cents/kWh).....	7.04	6.61	NA	8.93	3.05	4.02	1.73	6.86

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Indiana</b>		
NERC Region(s).....		ECAR
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	25,640	14
Electric Utilities .....	21,015	10
Independent Power Producers & Combined Heat and Power .....	4,625	20
Net Generation (megawatthours).....	124,888,217	10
Electric Utilities .....	112,395,725	6
Independent Power Producers & Combined Heat and Power .....	12,492,492	20
Emissions (thousand metric tons)		
Sulfur Dioxide .....	744	3
Nitrogen Oxide .....	248	4
Carbon Dioxide .....	116,590	5
Sulfur Dioxide (lbs/MWh).....	13.1	2
Nitrogen Oxide (lbs/MWh).....	4.4	6
Carbon Dioxide (lbs/MWh).....	2,058	7
Total Retail Sales (megawatthours).....	100,467,779	12
Full Service Provider Sales (megawatthours).....	100,467,779	10
Direct Use (megawatthours).....	4,755,661	7
Average Retail Price (cents/kWh).....	5.37	47

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Indiana</b>			
1. Gibson.....	Petroleum, Coal	PSI Energy Inc	3,131
2. Rockport .....	Petroleum, Coal	Indiana Michigan Power Co	2,600
3. R M Schahfer .....	Gas, Petroleum, Coal	Northern Indiana Pub Serv Co	1,780
4. AES Petersburg .....	Petroleum, Coal	Indianapolis Power & Light Co	1,702
5. Clifty Creek .....	Petroleum, Coal	Indiana-Kentucky Electric Corp	1,196
6. Cayuga .....	Gas, Petroleum, Coal	PSI Energy Inc	1,104
7. Harding Street .....	Gas, Petroleum, Coal	Indianapolis Power & Light Co	1,102
8. Merom .....	Petroleum, Coal	Hoosier Energy R E C Inc	1,000
9. Tanners Creek .....	Petroleum, Coal	Indiana Michigan Power Co	980
10. Wabash River .....	Petroleum, Gas, Coal	PSI Energy Inc	936

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Indiana</b>						
1. PSI Energy Inc.....	Investor-Owned	27,014,573	8,286,086	7,335,162	11,393,325	0
2. Northern Indiana Pub Serv Co.....	Investor-Owned	15,815,917	3,122,471	3,704,882	8,972,159	16,405
3. Indiana Michigan Power Co .....	Investor-Owned	15,265,235	4,328,840	4,111,895	6,824,500	0
4. Indianapolis Power & Light Co.....	Investor-Owned	14,355,738	4,916,519	2,068,893	7,370,326	0
5. Southern Indiana Gas & Elec Co .....	Investor-Owned	5,297,928	1,441,706	1,439,337	2,416,885	0
Total Sales, Top Five Providers.....		77,749,391	22,095,622	18,660,169	36,977,195	16,405
Percent of Total State Sales .....		77	72	83	78	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Indiana</b>							
<b>Electric Utilities</b> .....	<b>20,711</b>	<b>20,337</b>	<b>21,015</b>	<b>0.2</b>	<b>96.3</b>	<b>93.2</b>	<b>82.0</b>
Coal.....	19,192	18,709	18,400	-.5	89.3	85.7	71.8
Petroleum.....	476	486	474	*	2.2	2.2	1.8
Natural Gas.....	172	297	1,392	26.2	.8	1.4	5.4
Dual Fired.....	802	786	690	-1.7	3.7	3.6	2.7
Hydroelectric.....	69	59	59	-1.7	.3	.3	.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>794</b>	<b>1,486</b>	<b>4,625</b>	<b>21.6</b>	<b>3.7</b>	<b>6.8</b>	<b>18.0</b>
Coal.....	205	767	1,416	24.0	1.0	3.5	5.5
Petroleum.....	9	9	9	.0	*	*	*
Natural Gas.....	138	119	2,484	37.9	.6	.5	9.7
Other Gases.....	325	480	512	5.2	1.5	2.2	2.0
Dual Fired.....	111	94	185	5.8	.5	.4	.7
Other Renewables.....	6	17	19	13.7	*	.1	.1
<b>Total Electric Industry</b> .....	<b>21,502</b>	<b>21,822</b>	<b>25,640</b>	<b>2.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	19,396	19,476	19,816	.2	90.2	89.2	77.3
Petroleum.....	484	495	483	*	2.3	2.3	1.9
Natural Gas.....	310	415	3,876	32.4	1.4	1.9	15.1
Other Gases.....	325	480	512	5.2	1.5	2.2	2.0
Dual Fired.....	912	880	875	-.5	4.2	4.0	3.4
Hydroelectric.....	69	59	59	-1.7	.3	.3	.2
Other Renewables.....	6	17	19	13.7	*	.1	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Indiana</b>							
<b>Electric Utilities</b> .....	<b>103,485,409</b>	<b>112,771,878</b>	<b>112,395,725</b>	<b>0.9</b>	<b>96.6</b>	<b>96.0</b>	<b>90.0</b>
Coal.....	102,043,025	110,696,190	109,839,659	.8	95.2	94.2	87.9
Petroleum.....	209,379	821,530	407,648	7.7	.2	.7	.3
Natural Gas.....	826,138	775,490	1,724,465	8.5	.8	.7	1.4
Hydroelectric.....	406,867	478,668	423,953	.5	.4	.4	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,696,648</b>	<b>4,699,647</b>	<b>12,492,493</b>	<b>14.5</b>	<b>3.4</b>	<b>4.0</b>	<b>10.0</b>
Coal.....	878,401	1,121,905	7,916,625	27.7	.8	1.0	6.3
Petroleum.....	156,703	255,571	47,639	-12.4	.1	.2	*
Natural Gas.....	683,033	1,301,664	1,324,970	7.6	.6	1.1	1.1
Other Gases.....	1,941,518	1,896,396	2,592,257	3.3	1.8	1.6	2.1
Other Renewables.....	36,993	124,111	134,030	15.4	*	.1	.1
Other.....	0	0	476,972	NM	.0	.0	.4
<b>Total Electric Industry</b> .....	<b>107,182,057</b>	<b>117,471,525</b>	<b>124,888,217</b>	<b>1.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	102,921,426	111,818,095	117,756,284	1.5	96.0	95.2	94.3
Petroleum.....	366,082	1,077,101	455,287	2.5	.3	.9	.4
Natural Gas.....	1,509,171	2,077,154	3,049,435	8.1	1.4	1.8	2.4
Other Gases.....	1,941,518	1,896,396	2,592,257	3.3	1.8	1.6	2.1
Hydroelectric.....	406,867	478,668	423,953	.5	.4	.4	.3
Other Renewables.....	36,993	124,111	134,030	15.4	*	.1	.1
Other.....	0	0	476,972	NM	.0	.0	.4

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Indiana</b>				
Coal (cents per million Btu).....	127.2	112.3	W	W
Average heat value (Btu per pound).....	10,535	10,517	10,550	*
Average sulfur Content (percent).....	1.8	1.6	1.5	-1.8
Petroleum (cents per million Btu).....	389.9	184.4	W	W
Average heat value (Btu per gallon).....	137,426	100,266	138,660	.1
Average sulfur Content (percent).....	.2	2.6	2.3	31.2
Natural Gas (cents per million Btu).....	265.9	280.5	615.9	9.8
Average heat value (Btu per cubic foot).....	1,023	1,025	1,014	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Indiana</b>				
<b>Sulfur Dioxide</b>				
Coal.....	1,138	868	741	-4.6
Petroleum.....	*	3	1	14.1
Natural Gas.....	*	*	*	8.0
Other.....	*	1	1	34.0
Total.....	1,138	872	744	-4.6
<b>Nitrogen Oxide</b>				
Coal.....	470	340	239	-7.2
Petroleum.....	1	1	*	-14.1
Gas.....	3	4	3	-2.1
Other.....	1	1	6	24.3
Total.....	474	346	248	-7.0
<b>Carbon Dioxide</b>				
Coal.....	100,353	109,302	114,014	1.4
Petroleum.....	649	1,619	497	-2.9
Gas.....	1,459	2,236	1,772	2.2
Geothermal.....	—	—	—	NM
Other.....	88	85	307	14.9
Total.....	102,550	113,242	116,590	1.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Indiana</b>							
Retail Sales (thousand megawatthours)							
Residential.....	25,048	27,334	30,726	2.3	29.9	29.7	30.6
Commercial.....	17,462	19,368	22,441	2.8	20.8	21.0	22.3
Industrial.....	40,763	44,848	47,284	1.7	48.6	48.7	47.1
Other.....	534	509	NA	NM	.6	.5	NA
Transportation.....	NA	NA	16	NM	NA	NA	*
Total.....	83,808	92,059	100,468	2.0	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	1,697	1,916	2,162	2.7	38.6	39.0	40.1
Commercial.....	1,033	1,177	1,374	3.2	23.5	23.9	25.5
Industrial.....	1,619	1,770	1,855	1.5	36.8	36.0	34.4
Other.....	48	50	NA	NM	1.1	1.0	NA
Transportation.....	NA	NA	1	NM	NA	NA	*
Total.....	4,397	4,914	5,393	2.3	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	6.78	7.01	7.04	.4	NA	NA	NA
Commercial.....	5.91	6.08	6.12	.4	NA	NA	NA
Industrial.....	3.97	3.95	3.92	-.1	NA	NA	NA
Other.....	9.02	9.83	NA	NM	NA	NA	NA
Transportation.....	NA	NA	8.36	NM	NA	NA	NA
Total.....	5.25	5.34	5.37	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Indiana</b>								
Number of Entities.....	6	72	NA	41	NA	NA	NA	119
Number of Retail Customers.....	2,215,877	255,477	NA	494,708	NA	NA	NA	2,966,062
Retail Sales (thousand megawatthours).....	82,368	7,543	NA	10,557	NA	NA	NA	100,468
Percentage of Retail Sales.....	81.98	7.51	NA	10.51	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	4,288	400	NA	705	NA	NA	NA	5,393
Percentage of Revenue.....	79.51	7.42	NA	13.07	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.21	5.31	NA	6.67	NA	NA	NA	5.37

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Iowa</b>		
NERC Region(s).....		MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	10,074	33
Electric Utilities .....	9,092	27
Independent Power Producers & Combined Heat and Power .....	982	39
Net Generation (megawatthours).....	42,116,192	33
Electric Utilities .....	39,485,141	27
Independent Power Producers & Combined Heat and Power .....	2,631,051	40
Emissions (thousand metric tons)		
Sulfur Dioxide .....	139	21
Nitrogen Oxide .....	78	24
Carbon Dioxide .....	40,616	23
Sulfur Dioxide (lbs/MWh).....	7.3	14
Nitrogen Oxide (lbs/MWh).....	4.1	9
Carbon Dioxide (lbs/MWh).....	2,126	4
Total Retail Sales (megawatthours).....	41,207,284	31
Full Service Provider Sales (megawatthours).....	41,207,284	31
Direct Use (megawatthours).....	1,350,833	27
Average Retail Price (cents/kWh).....	6.11	36

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Iowa</b>			
1. George Neal North.....	Gas, Coal	MidAmerican Energy Co	950
2. Council Bluffs .....	Petroleum, Gas, Coal	MidAmerican Energy Co	823
3. Ottumwa .....	Petroleum, Coal	Interstate Power and Light Co	731
4. Louisa .....	Petroleum, Gas, Coal	MidAmerican Energy Co	700
5. George Neal South.....	Petroleum, Coal	MidAmerican Energy Co	644
6. Duane Arnold .....	Nuclear	Interstate Power and Light Co	562
7. Greater Des Moines .....	Gas	MidAmerican Energy Co	542
8. Lansing .....	Petroleum, Coal	Interstate Power and Light Co	330
9. Burlington.....	Gas, Coal	Interstate Power and Light Co	285
10. Archer Daniels Midland Cedar Rapids.....	Coal	Archer Daniels Midland Co	260

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Iowa</b>						
1. MidAmerican Energy Co .....	Investor-Owned	16,372,304	4,678,734	5,450,310	6,243,260	0
2. Interstate Power and Light Co .....	Investor-Owned	14,368,220	3,761,671	3,373,987	7,232,562	0
3. Eastern Iowa Light & Power Coop .....	Cooperative	1,217,700	261,048	36,437	920,215	0
4. Muscatine City of .....	Public	818,064	96,134	172,091	549,839	0
5. Ames City of .....	Public	587,869	144,805	305,792	137,272	0
Total Sales, Top Five Providers.....		33,364,157	8,942,392	9,338,617	15,083,148	0
Percent of Total State Sales .....		81	70	80	90	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Iowa</b>							
<b>Electric Utilities</b> .....	<b>8,217</b>	<b>8,367</b>	<b>9,092</b>	<b>1.1</b>	<b>95.2</b>	<b>95.9</b>	<b>90.3</b>
Coal.....	5,975	5,717	5,666	-6	69.2	65.5	56.2
Petroleum.....	512	662	779	4.8	5.9	7.6	7.7
Natural Gas.....	139	133	640	18.5	1.6	1.5	6.4
Dual Fired.....	951	988	1,202	2.6	11.0	11.3	11.9
Nuclear.....	515	520	562	1.0	6.0	6.0	5.6
Hydroelectric.....	125	131	136	.9	1.4	1.5	1.3
Other Renewables.....	0	0	107	NM	.0	.0	1.1
Other.....	0	216	0	NM	.0	2.5	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>416</b>	<b>359</b>	<b>982</b>	<b>10.0</b>	<b>4.8</b>	<b>4.1</b>	<b>9.7</b>
Coal.....	259	275	420	5.5	3.0	3.2	4.2
Petroleum.....	82	71	89	.9	.9	.8	.9
Natural Gas.....	0	0	5	NM	.0	.0	*
Dual Fired.....	63	0	0	NM	.7	.0	.0
Hydroelectric.....	5	5	2	-9.7	.1	.1	*
Other Renewables.....	7	8	466	59.4	.1	.1	4.6
<b>Total Electric Industry</b> .....	<b>8,634</b>	<b>8,728</b>	<b>10,074</b>	<b>1.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,234	5,993	6,086	-3	72.2	68.7	60.4
Petroleum.....	594	733	868	4.3	6.9	8.4	8.6
Natural Gas.....	140	133	645	18.5	1.6	1.5	6.4
Dual Fired.....	1,014	988	1,202	1.9	11.7	11.3	11.9
Nuclear.....	515	520	562	1.0	6.0	6.0	5.6
Hydroelectric.....	130	136	138	.7	1.5	1.6	1.4
Other Renewables.....	7	9	573	63.1	.1	.1	5.7
Other.....	0	216	0	NM	.0	2.5	.0

See footnotes at end of tables.



**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Iowa</b>							
<b>Electric Utilities</b> .....	<b>31,963,757</b>	<b>37,085,476</b>	<b>39,485,141</b>	<b>2.4</b>	<b>96.4</b>	<b>96.5</b>	<b>93.8</b>
Coal.....	26,497,930	31,883,678	34,288,694	2.9	79.9	82.9	81.4
Petroleum.....	78,291	109,620	91,173	1.7	.2	.3	.2
Natural Gas.....	199,272	412,281	279,206	3.8	.6	1.1	.7
Nuclear.....	4,107,383	3,767,513	3,987,657	-3	12.4	9.8	9.5
Hydroelectric.....	1,052,870	893,219	780,322	-3.3	3.2	2.3	1.9
Other Renewables.....	28,011	19,165	58,089	8.4	.1	*	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,203,249</b>	<b>1,363,313</b>	<b>2,631,051</b>	<b>9.1</b>	<b>3.6</b>	<b>3.5</b>	<b>6.2</b>
Coal.....	952,962	1,116,293	1,531,251	5.4	2.9	2.9	3.6
Petroleum.....	23,499	6,923	10,162	-8.9	.1	*	*
Natural Gas.....	177,213	148,611	33,690	-16.8	.5	.4	.1
Hydroelectric.....	18,153	19,696	8,271	-8.4	.1	.1	*
Other Renewables.....	31,422	71,790	1,047,676	47.6	.1	.2	2.5
<b>Total Electric Industry</b> .....	<b>33,167,006</b>	<b>38,448,789</b>	<b>42,116,192</b>	<b>2.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	27,450,892	32,999,971	35,819,945	3.0	82.8	85.8	85.0
Petroleum.....	101,790	116,543	101,335	*	.3	.3	.2
Natural Gas.....	376,485	560,892	312,896	-2.0	1.1	1.5	.7
Nuclear.....	4,107,383	3,767,513	3,987,657	-3	12.4	9.8	9.5
Hydroelectric.....	1,071,023	912,915	788,593	-3.3	3.2	2.4	1.9
Other Renewables.....	59,433	90,955	1,105,765	38.4	.2	.2	2.6

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Iowa</b>				
Coal (cents per million Btu).....	99.0	87.6	W	W
Average heat value (Btu per pound).....	8,783	8,636	8,705	-0.1
Average sulfur Content (percent).....	.6	.4	.4	-3.0
Petroleum (cents per million Btu).....	143.6	141.2	634.6	17.9
Average heat value (Btu per gallon).....	86,797	88,179	139,172	5.4
Average sulfur Content (percent).....	4.6	4.1	*	-42.8
Natural Gas (cents per million Btu).....	316.2	305.9	593.3	7.2
Average heat value (Btu per cubic foot).....	1,006	1,003	1,004	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Iowa</b>				
Sulfur Dioxide				
Coal .....	180	153	138	-3.0
Petroleum .....	11	7	1	-21.8
Natural Gas .....	—	—	—	NM
Other .....	*	*	*	-8.1
Total .....	191	160	139	-3.5
Nitrogen Oxide				
Coal .....	152	85	77	-7.3
Petroleum .....	1	*	*	-16.9
Gas .....	1	1	1	-6.4
Other .....	*	1	*	-3.9
Total .....	155	87	78	-7.3
Carbon Dioxide				
Coal .....	31,594	36,974	40,185	2.7
Petroleum .....	184	129	121	-4.5
Gas .....	775	518	295	-10.2
Geothermal .....	—	—	—	NM
Other .....	*	—	15	68.2
Total .....	32,553	37,622	40,616	2.5

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Iowa</b>							
Retail Sales (thousand megawatthours)							
Residential .....	11,062	11,855	12,768	1.6	33.5	31.8	31.0
Commercial .....	7,477	8,034	11,637	5.0	22.6	21.5	28.2
Industrial .....	13,224	16,079	16,803	2.7	40.0	43.1	40.8
Other .....	1,276	1,350	NA	NM	3.9	3.6	NA
Total .....	33,039	37,318	41,207	2.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	895	993	1,094	2.3	45.7	44.0	43.4
Commercial .....	473	536	726	4.9	24.2	23.8	28.8
Industrial .....	513	641	699	3.5	26.2	28.4	27.8
Other .....	76	84	NA	NM	3.9	3.7	NA
Total .....	1,957	2,255	2,519	2.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.09	8.38	8.57	.6	NA	NA	NA
Commercial .....	6.32	6.67	6.24	-.1	NA	NA	NA
Industrial .....	3.88	3.99	4.16	.8	NA	NA	NA
Other .....	5.96	6.21	NA	NM	NA	NA	NA
Total .....	5.92	6.04	6.11	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Iowa</b>								
Number of Entities.....	3	138	NA	44	1	NA	NA	186
Number of Retail Customers.....	1,068,855	202,844	NA	205,658	161	NA	NA	1,477,518
Retail Sales (thousand megawatthours) .....	30,834	4,961	NA	5,174	238	NA	NA	41,207
Percentage of Retail Sales .....	74.83	12.04	NA	12.56	.58	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	1,853	290	NA	362	14	NA	NA	2,519
Percentage of Revenue.....	73.56	11.53	NA	14.37	.55	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.01	5.85	NA	7.00	5.79	NA	NA	6.11

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Kansas</b>		
NERC Region(s).....		SPP/MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	10,877	31
Electric Utilities .....	10,731	21
Independent Power Producers & Combined Heat and Power .....	146	47
Net Generation (megawatthours).....	46,567,560	31
Electric Utilities .....	46,155,505	21
Independent Power Producers & Combined Heat and Power .....	412,056	47
Emissions (thousand metric tons)		
Sulfur Dioxide .....	128	23
Nitrogen Oxide.....	86	19
Carbon Dioxide.....	38,463	26
Sulfur Dioxide (lbs/MWh).....	6.1	19
Nitrogen Oxide (lbs/MWh).....	4.1	10
Carbon Dioxide (lbs/MWh).....	1,821	14
Total Retail Sales (megawatthours).....	36,735,390	32
Full Service Provider Sales (megawatthours).....	36,735,390	32
Direct Use (megawatthours).....	62,101	49
Average Retail Price (cents/kWh).....	6.35	30

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Kansas</b>			
1. Jeffrey Energy Center .....	Other, Petroleum, Coal	Westar Energy	2,213
2. La Cygne .....	Petroleum, Coal	Kansas City Power & Light Co	1,362
3. Wolf Creek Generating Station .....	Nuclear	Wolf Creek Nuclear Optg Corp	1,165
4. Gordon Evans Energy Center.....	Gas, Petroleum	Kansas Gas & Electric Co	836
5. Lawrence Energy Center.....	Gas, Coal	Westar Energy	567
6. Hutchinson Energy Center.....	Gas, Petroleum	Westar Energy	477
7. Holcomb .....	Gas, Coal	Sunflower Electric Power Corp	360
8. Murray Gill.....	Gas, Petroleum	Kansas Gas & Electric Co	322
9. Quindaro .....	Petroleum, Gas, Coal	Kansas City City of	316
10. West Gardner.....	Gas	Kansas City Power & Light Co	308

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Kansas</b>						
1. Westar Energy .....	Investor-Owned	9,354,267	3,188,966	4,176,558	1,988,743	0
2. Kansas Gas & Electric Co .....	Investor-Owned	9,029,921	2,842,279	2,728,712	3,458,930	0
3. Kansas City Power & Light Co.....	Investor-Owned	5,842,912	2,598,208	2,861,868	382,836	0
4. Kansas City City of.....	Public	2,254,332	537,863	824,903	891,566	0
5. Aquila Inc .....	Investor-Owned	1,841,911	469,741	575,858	796,312	0
Total Sales, Top Five Providers.....		28,323,343	9,637,057	11,167,899	7,518,387	0
Percent of Total State Sales .....		77	76	81	72	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Kansas</b>							
<b>Electric Utilities</b> .....	<b>9,715</b>	<b>9,916</b>	<b>10,731</b>	<b>1.1</b>	<b>99.5</b>	<b>99.5</b>	<b>98.7</b>
Coal.....	5,220	5,407	5,265	.1	53.5	54.3	48.4
Petroleum.....	212	214	277	3.0	2.2	2.1	2.5
Natural Gas.....	470	388	990	8.6	4.8	3.9	9.1
Dual Fired.....	2,653	2,743	3,032	1.5	27.2	27.5	27.9
Nuclear.....	1,160	1,164	1,165	*	11.9	11.7	10.7
Other Renewables.....	0	0	2	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>49</b>	<b>49</b>	<b>146</b>	<b>12.9</b>	<b>.5</b>	<b>.5</b>	<b>1.3</b>
Petroleum.....	4	4	0	NM	*	*	.0
Natural Gas.....	1	41	27	44.2	*	.4	.2
Dual Fired.....	42	2	4	-23.0	.4	*	*
Hydroelectric.....	2	2	3	4.6	*	*	*
Other Renewables.....	0	0	112	NM	.0	.0	1.0
<b>Total Electric Industry</b> .....	<b>9,763</b>	<b>9,964</b>	<b>10,877</b>	<b>1.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,220	5,407	5,265	.1	53.5	54.3	48.4
Petroleum.....	216	218	277	2.8	2.2	2.2	2.5
Natural Gas.....	471	428	1,017	8.9	4.8	4.3	9.3
Dual Fired.....	2,694	2,745	3,036	1.3	27.6	27.5	27.9
Nuclear.....	1,160	1,164	1,165	*	11.9	11.7	10.7
Hydroelectric.....	2	2	3	4.6	*	*	*
Other Renewables.....	0	0	114	NM	.0	.0	1.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Kansas</b>							
<b>Electric Utilities</b> .....	<b>37,283,871</b>	<b>41,480,827</b>	<b>46,155,505</b>	<b>2.4</b>	<b>99.1</b>	<b>99.7</b>	<b>99.1</b>
Coal.....	26,488,755	28,023,687	35,109,616	3.2	70.4	67.4	75.4
Petroleum.....	82,809	122,143	963,751	31.4	.2	.3	2.1
Natural Gas.....	2,183,250	2,924,279	1,190,819	-6.5	5.8	7.0	2.6
Nuclear.....	8,529,002	10,410,718	8,889,667	.5	22.7	25.0	19.1
Other Renewables.....	55	0	1,651	45.9	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>335,998</b>	<b>104,401</b>	<b>412,056</b>	<b>2.3</b>	<b>.9</b>	<b>.3</b>	<b>.9</b>
Petroleum.....	5,789	458	381	-26.1	*	*	*
Natural Gas.....	320,355	92,518	34,951	-21.8	.9	.2	.1
Hydroelectric.....	9,854	11,425	12,435	2.6	*	*	*
Other Renewables.....	0	0	364,288	NM	.0	.0	.8
<b>Total Electric Industry</b> .....	<b>37,619,869</b>	<b>41,585,228</b>	<b>46,567,560</b>	<b>2.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	26,488,755	28,023,687	35,109,616	3.2	70.4	67.4	75.4
Petroleum.....	88,598	122,601	964,132	30.4	.2	.3	2.1
Natural Gas.....	2,503,605	3,016,797	1,225,770	-7.6	6.7	7.3	2.6
Nuclear.....	8,529,002	10,410,718	8,889,667	.5	22.7	25.0	19.1
Hydroelectric.....	9,854	11,425	12,435	2.6	*	*	*
Other Renewables.....	55	0	365,939	165.9	.0	.0	.8

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Kansas</b>				
Coal (cents per million Btu).....	102.5	98.1	101.5	-0.1
Average heat value (Btu per pound).....	8,708	8,696	8,619	-.1
Average sulfur Content (percent).....	.5	.5	.5	-.2
Petroleum (cents per million Btu).....	396.8	265.5	361.7	-1.0
Average heat value (Btu per gallon).....	138,892	144,689	156,947	1.4
Average sulfur Content (percent).....	.2	.5	1.6	26.6
Natural Gas (cents per million Btu).....	192.1	213.7	529.6	11.9
Average heat value (Btu per cubic foot).....	983	1,001	1,014	.4

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Kansas</b>				
<b>Sulfur Dioxide</b>				
Coal .....	65	102	119	7.0
Petroleum .....	*	*	9	52.1
Natural Gas .....	*	*	—	NM
Other.....	—	—	—	NM
Total .....	65	102	128	7.8
<b>Nitrogen Oxide</b>				
Coal .....	142	68	82	-6.0
Petroleum .....	*	*	3	46.8
Gas.....	4	6	2	-10.4
Other.....	—	—	—	NM
Total .....	147	73	86	-5.8
<b>Carbon Dioxide</b>				
Coal .....	28,414	29,412	36,784	2.9
Petroleum .....	81	125	843	29.8
Gas.....	1,782	2,144	836	-8.1
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total .....	30,276	31,681	38,463	2.7

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Kansas</b>							
Retail Sales (thousand megawatthours)							
Residential.....	10,131	11,832	12,602	2.4	34.2	34.7	34.3
Commercial.....	10,111	12,073	13,751	3.5	34.1	35.4	37.4
Industrial.....	9,001	9,762	10,382	1.6	30.4	28.6	28.3
Other.....	371	473	NA	NM	1.3	1.4	NA
Total.....	29,614	34,140	36,735	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	799	905	971	2.2	40.8	42.2	41.6
Commercial.....	674	766	882	3.0	34.4	35.7	37.8
Industrial.....	444	435	479	.8	22.7	20.3	20.5
Other.....	41	38	NA	NM	2.1	1.8	NA
Total.....	1,957	2,145	2,333	2.0	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	7.89	7.65	7.71	-.3	NA	NA	NA
Commercial.....	6.66	6.34	6.42	-.4	NA	NA	NA
Industrial.....	4.93	4.46	4.61	-.7	NA	NA	NA
Other.....	10.94	7.96	NA	NM	NA	NA	NA
Total.....	6.61	6.28	6.35	-.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Kansas</b>								
Number of Entities.....	6	119	NA	29	NA	NA	NA	154
Number of Retail Customers.....	952,229	236,715	NA	212,001	NA	NA	NA	1,400,945
Retail Sales (thousand megawatthours).....	26,335	6,483	NA	3,918	NA	NA	NA	36,735
Percentage of Retail Sales.....	71.69	17.65	NA	10.66	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,582	412	NA	338	NA	NA	NA	2,333
Percentage of Revenue.....	67.82	17.68	NA	14.50	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.01	6.36	NA	8.63	NA	NA	NA	6.35

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Kentucky</b>		
NERC Region(s).....		ECAR/SERC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	19,068	20
Electric Utilities .....	15,349	16
Independent Power Producers & Combined Heat and Power .....	3,719	24
Net Generation (megawatthours).....	91,718,820	19
Electric Utilities .....	80,696,982	14
Independent Power Producers & Combined Heat and Power .....	11,021,838	21
Emissions (thousand metric tons)		
Sulfur Dioxide .....	483	7
Nitrogen Oxide.....	169	7
Carbon Dioxide.....	85,573	8
Sulfur Dioxide (lbs/MWh).....	11.6	4
Nitrogen Oxide (lbs/MWh).....	4.1	11
Carbon Dioxide (lbs/MWh).....	2,057	8
Total Retail Sales (megawatthours).....	85,219,631	14
Full Service Provider Sales (megawatthours).....	85,219,631	14
Direct Use (megawatthours).....	188,286	43
Average Retail Price (cents/kWh).....	4.42	51

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Kentucky</b>			
1. Paradise.....	Petroleum, Coal	Tennessee Valley Authority	2,179
2. Ghent.....	Petroleum, Coal	Kentucky Utilities Co	1,954
3. E W Brown .....	Petroleum, Gas, Coal	Kentucky Utilities Co	1,644
4. Mill Creek .....	Gas, Coal	Louisville Gas & Electric Co	1,472
5. Shawnee.....	Petroleum, Coal	Tennessee Valley Authority	1,330
6. Big Sandy.....	Petroleum, Coal	Kentucky Power Co	1,060
7. H L Spurlock.....	Petroleum, Coal	East Kentucky Power Coop Inc	850
8. Trimble County.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	829
9. East Bend.....	Petroleum, Coal	Cincinnati Gas & Electric Co	600
10. Cane Run.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	577

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Kentucky</b>						
1. Kentucky Utilities Co.....	Investor-Owned	16,686,927	5,593,780	5,499,198	5,593,949	0
2. Tennessee Valley Authority.....	Federal	12,586,695	0	0	12,586,695	0
3. Louisville Gas & Electric Co.....	Investor-Owned	11,503,350	3,834,690	4,732,906	2,935,754	0
4. Kenergy Corp.....	Cooperative	9,335,174	688,284	276,058	8,370,832	0
5. Kentucky Power Co.....	Investor-Owned	6,609,224	2,356,515	1,322,500	2,930,209	0
Total Sales, Top Five Providers.....		56,721,370	12,473,269	11,830,662	32,417,439	0
Percent of Total State Sales.....		67	50	66	76	0

See footnotes at end of tables.



**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Kentucky</b>							
<b>Electric Utilities</b> .....	<b>15,506</b>	<b>13,995</b>	<b>15,349</b>	<b>-0.1</b>	<b>100.0</b>	<b>87.5</b>	<b>80.5</b>
Coal.....	14,075	12,517	12,435	-1.4	90.8	78.3	65.2
Petroleum.....	134	70	70	-7.0	.9	.4	.4
Natural Gas.....	207	92	684	14.2	1.3	.6	3.6
Dual Fired.....	288	508	1,342	18.6	1.9	3.2	7.0
Hydroelectric.....	802	808	818	.2	5.2	5.1	4.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>0</b>	<b>1,995</b>	<b>3,719</b>	<b>NM</b>	<b>.0</b>	<b>12.5</b>	<b>19.5</b>
Coal.....	0	1,906	1,716	NM	.0	11.9	9.0
Natural Gas.....	0	0	1,343	NM	.0	.0	7.0
Dual Fired.....	0	85	609	NM	.0	.5	3.2
Other Renewables.....	0	4	51	NM	.0	*	.3
<b>Total Electric Industry</b> .....	<b>15,506</b>	<b>15,990</b>	<b>19,068</b>	<b>2.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	14,075	14,423	14,151	.1	90.8	90.2	74.2
Petroleum.....	134	70	70	-7.0	.9	.4	.4
Natural Gas.....	207	92	2,027	28.9	1.3	.6	10.6
Dual Fired.....	288	593	1,951	23.7	1.9	3.7	10.2
Hydroelectric.....	802	808	818	.2	5.2	5.1	4.3
Other Renewables.....	0	4	51	NM	.0	*	.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Kentucky</b>							
<b>Electric Utilities</b> .....	<b>84,097,034</b>	<b>86,151,121</b>	<b>80,696,982</b>	<b>-0.5</b>	<b>100.0</b>	<b>94.7</b>	<b>88.0</b>
Coal.....	79,897,442	82,412,216	76,367,048	-5	95.0	90.6	83.3
Petroleum.....	154,819	127,062	130,280	-1.9	.2	.1	.1
Natural Gas.....	31,183	495,825	229,930	24.9	*	.5	.3
Hydroelectric.....	4,013,590	3,116,018	3,948,052	-2	4.8	3.4	4.3
Other Renewables.....	0	0	21,672	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>0</b>	<b>4,781,907</b>	<b>11,021,838</b>	<b>NM</b>	<b>.0</b>	<b>5.3</b>	<b>12.0</b>
Coal.....	0	4,426,586	7,693,492	NM	.0	4.9	8.4
Petroleum.....	0	337,886	2,814,631	NM	.0	.4	3.1
Natural Gas.....	0	1,783	214,475	NM	.0	*	.2
Other Renewables.....	0	15,652	299,240	NM	.0	*	.3
<b>Total Electric Industry</b> .....	<b>84,097,034</b>	<b>90,933,028</b>	<b>91,718,820</b>	<b>1.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	79,897,442	86,838,802	84,060,540	.6	95.0	95.5	91.6
Petroleum.....	154,819	464,948	2,944,911	38.7	.2	.5	3.2
Natural Gas.....	31,183	497,608	444,405	34.3	*	.5	.5
Hydroelectric.....	4,013,590	3,116,018	3,948,052	-2	4.8	3.4	4.3
Other Renewables.....	0	15,652	320,912	NM	.0	*	.3

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Kentucky</b>				
Coal (cents per million Btu).....	116.2	105.9	122.8	0.6
Average heat value (Btu per pound).....	11,683	11,579	11,498	-2
Average sulfur Content (percent).....	2.3	2.4	2.1	-1.1
Petroleum (cents per million Btu).....	152.7	277.7	W	W
Average heat value (Btu per gallon).....	87,876	115,749	132,665	4.7
Average sulfur Content (percent).....	4.1	1.9	3.9	-5
Natural Gas (cents per million Btu).....	287.2	331.9	657.7	9.6
Average heat value (Btu per cubic foot).....	1,021	1,024	1,017	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Kentucky</b>				
<b>Sulfur Dioxide</b>				
Coal.....	812	544	474	-5.8
Petroleum.....	*	*	7	49.7
Natural Gas.....	—	—	—	NM
Other.....	—	—	3	NM
Total.....	813	544	483	-5.6
<b>Nitrogen Oxide</b>				
Coal.....	317	289	161	-7.2
Petroleum.....	*	*	6	59.2
Gas.....	*	1	*	24.6
Other.....	—	*	1	NM
Total.....	318	290	169	-6.8
<b>Carbon Dioxide</b>				
Coal.....	74,174	81,248	81,565	1.1
Petroleum.....	133	535	3,411	43.4
Gas.....	19	310	570	46.1
Geothermal.....	—	—	—	NM
Other.....	—	—	27	NM
Total.....	74,326	82,093	85,573	1.6

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Kentucky</b>							
Retail Sales (thousand megawatthours)							
Residential.....	19,481	21,669	24,704	2.7	26.9	28.6	29.0
Commercial.....	10,095	12,729	17,946	6.6	13.9	16.8	21.1
Industrial.....	40,049	38,260	42,570	.7	55.3	50.4	49.9
Other.....	2,861	3,192	NA	NM	3.9	4.2	NA
Total.....	72,485	75,850	85,220	1.8	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	1,125	1,216	1,435	2.7	36.4	38.5	38.1
Commercial.....	534	675	963	6.8	17.3	21.4	25.6
Industrial.....	1,299	1,115	1,365	.5	42.0	35.3	36.3
Other.....	134	149	NA	NM	4.3	4.7	NA
Total.....	3,091	3,155	3,763	2.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	5.77	5.61	5.81	.1	NA	NA	NA
Commercial.....	5.29	5.30	5.37	.2	NA	NA	NA
Industrial.....	3.24	2.91	3.21	-.1	NA	NA	NA
Other.....	4.67	4.67	NA	NM	NA	NA	NA
Total.....	4.26	4.16	4.42	.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Kentucky</b>								
Number of Entities.....	6	30	1	24	1	NA	NA	62
Number of Retail Customers.....	1,170,276	202,575	22	744,263	2	NA	NA	2,117,138
Retail Sales (thousand megawatthours).....	41,097	6,537	12,587	24,955	44	NA	NA	85,220
Percentage of Retail Sales.....	48.22	7.67	14.77	29.28	.05	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,855	346	330	1,229	3	NA	NA	3,763
Percentage of Revenue.....	49.28	9.19	8.78	32.66	.08	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.51	5.29	2.63	4.93	6.95	NA	NA	4.42

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

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Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Louisiana</b>		
NERC Region(s).....		SPP/SERC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	25,748	13
Electric Utilities .....	14,090	17
Independent Power Producers & Combined Heat and Power .....	11,659	9
Net Generation (megawatthours).....	94,885,040	14
Electric Utilities .....	43,485,059	22
Independent Power Producers & Combined Heat and Power .....	51,399,981	8
Emissions (thousand metric tons)		
Sulfur Dioxide .....	194	20
Nitrogen Oxide.....	96	15
Carbon Dioxide.....	55,863	15
Sulfur Dioxide (lbs/MWh).....	4.5	27
Nitrogen Oxide (lbs/MWh).....	2.2	32
Carbon Dioxide (lbs/MWh).....	1,298	30
Total Retail Sales (megawatthours).....	77,769,322	17
Full Service Provider Sales (megawatthours).....	77,769,322	16
Direct Use (megawatthours).....	22,048,053	2
Average Retail Price (cents/kWh).....	6.93	20

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Louisiana</b>			
1. Willow Glen.....	Petroleum, Gas	Entergy Gulf States Inc	1,832
2. Big Cajun 2.....	Petroleum, Coal	Louisiana Generating LLC	1,730
3. Nine Mile Point.....	Petroleum, Gas	Entergy Louisiana Inc	1,705
4. R S Nelson.....	Petroleum, Gas, Coal	Entergy Gulf States Inc	1,416
5. Little Gypsy.....	Gas	Entergy Louisiana Inc	1,204
6. Waterford 3.....	Nuclear	Entergy Louisiana Inc	1,089
7. Acadia Energy Center.....	Gas	Calpine Corp	1,082
8. River Bend.....	Nuclear	Entergy Gulf States Inc	978
9. Rodemacher.....	Petroleum, Gas, Coal	CLECO Power LLC	963
10. Michoud.....	Gas	Entergy New Orleans Inc	825

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Louisiana</b>						
1. Entergy Louisiana Inc.....	Investor-Owned	27,778,554	8,795,215	6,110,435	12,870,061	2,843
2. Entergy Gulf States Inc.....	Investor-Owned	18,439,575	4,618,974	4,675,273	9,145,328	0
3. CLECO Power LLC.....	Investor-Owned	8,591,562	3,428,776	2,376,897	2,785,889	0
4. Entergy New Orleans Inc.....	Investor-Owned	5,844,264	2,132,976	3,299,682	411,606	0
5. Southwestern Electric Power Co.....	Investor-Owned	5,276,707	2,213,815	2,178,550	884,342	0
Total Sales, Top Five Providers.....		65,930,662	21,189,756	18,640,837	26,097,226	2,843
Percent of Total State Sales.....		85	74	85	96	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Louisiana</b>							
<b>Electric Utilities</b> .....	<b>16,873</b>	<b>17,014</b>	<b>14,090</b>	<b>-2.0</b>	<b>85.9</b>	<b>83.5</b>	<b>54.7</b>
Coal.....	3,343	3,448	1,723	-7.1	17.0	16.9	6.7
Petroleum.....	16	16	16	.0	.1	.1	.1
Natural Gas.....	1,811	1,843	1,586	-1.5	9.2	9.0	6.2
Dual Fired.....	9,697	9,696	8,698	-1.2	49.4	47.6	33.8
Nuclear.....	2,006	2,011	2,067	.3	10.2	9.9	8.0
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>2,761</b>	<b>3,357</b>	<b>11,659</b>	<b>17.4</b>	<b>14.1</b>	<b>16.5</b>	<b>45.3</b>
Coal.....	8	0	1,730	81.7	*	.0	6.7
Petroleum.....	0	0	46	NM	.0	.0	.2
Natural Gas.....	1,598	2,239	8,996	21.2	8.1	11.0	34.9
Other Gases.....	88	105	63	-3.6	.4	.5	.2
Dual Fired.....	378	290	433	1.5	1.9	1.4	1.7
Hydroelectric.....	182	182	192	.6	.9	.9	.7
Other Renewables.....	486	520	175	-10.7	2.5	2.6	.7
Other.....	21	21	24	1.5	.1	.1	.1
<b>Total Electric Industry</b> .....	<b>19,636</b>	<b>20,372</b>	<b>25,748</b>	<b>3.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,351	3,448	3,453	.3	17.1	16.9	13.4
Petroleum.....	16	16	62	16.2	.1	.1	.2
Natural Gas.....	3,410	4,082	10,581	13.4	17.4	20.0	41.1
Other Gases.....	88	105	63	-3.6	.4	.5	.2
Dual Fired.....	10,075	9,987	9,131	-1.1	51.3	49.0	35.5
Nuclear.....	2,006	2,011	2,067	.3	10.2	9.9	8.0
Hydroelectric.....	182	182	192	.6	.9	.9	.7
Other Renewables.....	487	520	175	-10.7	2.5	2.6	.7
Other.....	21	21	24	1.5	.1	.1	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Louisiana</b>							
<b>Electric Utilities</b> .....	<b>60,169,910</b>	<b>66,107,474</b>	<b>43,485,059</b>	<b>-3.5</b>	<b>75.8</b>	<b>73.7</b>	<b>45.8</b>
Coal.....	20,125,159	20,761,891	11,020,325	-6.5	25.4	23.2	11.6
Petroleum.....	679,969	600,078	1,007,874	4.5	.9	.7	1.1
Natural Gas.....	26,586,147	28,318,004	15,093,742	-6.1	33.5	31.6	15.9
Other Gases.....	0	0	236,796	NM	.0	.0	.3
Nuclear.....	12,778,635	16,427,501	16,126,322	2.6	16.1	18.3	17.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>19,216,051</b>	<b>23,541,137</b>	<b>51,399,981</b>	<b>11.6</b>	<b>24.2</b>	<b>26.3</b>	<b>54.2</b>
Coal.....	38,253	19,639	11,868,605	89.2	*	*	12.5
Petroleum.....	1,640,424	1,693,442	1,930,074	1.8	2.1	1.9	2.0
Natural Gas.....	11,925,438	16,657,192	30,340,456	10.9	15.0	18.6	32.0
Other Gases.....	1,335,124	918,066	2,450,434	7.0	1.7	1.0	2.6
Hydroelectric.....	971,978	1,062,824	891,991	-9	1.2	1.2	.9
Other Renewables.....	2,627,268	2,871,881	3,174,765	2.1	3.3	3.2	3.3
Other.....	677,566	318,093	743,656	1.0	.9	.4	.8
<b>Total Electric Industry</b> .....	<b>79,385,961</b>	<b>89,648,611</b>	<b>94,885,040</b>	<b>2.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	20,163,412	20,781,530	22,888,930	1.4	25.4	23.2	24.1
Petroleum.....	2,320,393	2,293,520	2,937,948	2.7	2.9	2.6	3.1
Natural Gas.....	38,511,585	44,975,196	45,434,198	1.9	48.5	50.2	47.9
Other Gases.....	1,335,124	918,066	2,687,230	8.1	1.7	1.0	2.8
Nuclear.....	12,778,635	16,427,501	16,126,322	2.6	16.1	18.3	17.0
Hydroelectric.....	971,978	1,062,824	891,991	-9	1.2	1.2	.9
Other Renewables.....	2,627,268	2,871,881	3,174,765	2.1	3.3	3.2	3.3
Other.....	677,566	318,093	743,656	1.0	.9	.4	.8

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Louisiana</b>				
Coal (cents per million Btu).....	153.9	142.9	W	W
Average heat value (Btu per pound).....	8,136	8,097	8,023	-0.2
Average sulfur Content (percent).....	.5	.6	.5	-2
Petroleum (cents per million Btu).....	269.3	222.3	246.6	-1.0
Average heat value (Btu per gallon).....	147,869	153,402	145,807	-2
Average sulfur Content (percent).....	.7	1.0	3.8	21.2
Natural Gas (cents per million Btu).....	207.4	227.4	561.2	11.7
Average heat value (Btu per cubic foot).....	1,046	1,043	1,033	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Louisiana</b>				
Sulfur Dioxide				
Coal .....	115	87	87	-3.0
Petroleum .....	114	83	83	-3.4
Natural Gas .....	*	*	*	3.8
Other .....	19	16	24	2.4
Total .....	248	185	194	-2.7
Nitrogen Oxide				
Coal .....	87	40	39	-8.6
Petroleum .....	8	6	10	3.1
Gas .....	51	66	39	-2.8
Other .....	6	7	8	3.4
Total .....	152	119	96	-4.9
Carbon Dioxide				
Coal .....	21,214	21,582	23,593	1.2
Petroleum .....	2,522	2,551	3,008	2.0
Gas .....	25,427	31,622	29,010	1.5
Geothermal .....	—	—	—	NM
Other .....	*	—	253	115.1
Total .....	49,164	55,755	55,863	1.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Louisiana</b>							
Retail Sales (thousand megawatthours)							
Residential .....	22,629	26,709	28,572	2.6	32.3	34.4	36.7
Commercial .....	15,041	17,274	21,944	4.3	21.4	22.2	28.2
Industrial .....	29,870	30,999	27,251	-1.0	42.6	39.9	35.0
Other .....	2,593	2,734	NA	NM	3.7	3.5	NA
Transportation .....	NA	NA	3	NM	NA	NA	.0
Total .....	70,132	77,716	77,769	1.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,723	1,889	2,241	3.0	40.6	42.1	41.6
Commercial .....	1,082	1,132	1,628	4.6	25.5	25.2	30.2
Industrial .....	1,259	1,288	1,518	2.1	29.7	28.7	28.2
Other .....	177	181	NA	NM	4.2	4.0	NA
Total .....	4,241	4,490	5,387	2.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.61	7.07	7.84	.3	NA	NA	NA
Commercial .....	7.20	6.56	7.42	.3	NA	NA	NA
Industrial .....	4.22	4.15	5.57	3.1	NA	NA	NA
Other .....	6.81	6.62	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.32	NM	NA	NA	NA
Total .....	6.05	5.78	6.93	1.5	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Louisiana</b>								
Number of Entities.....	5	22	NA	13	3	NA	NA	43
Number of Retail Customers.....	1,611,090	153,740	NA	366,208	302	NA	NA	2,131,340
Retail Sales (thousand megawatthours) .....	65,931	4,357	NA	7,439	43	NA	NA	77,769
Percentage of Retail Sales .....	84.78	5.60	NA	9.57	.05	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	4,595	293	NA	497	2	NA	NA	5,387
Percentage of Revenue.....	85.30	5.44	NA	9.22	.04	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.97	6.73	NA	6.68	5.09	NA	NA	6.93

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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



**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Maine</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	4,285	42
Electric Utilities .....	19	49
Independent Power Producers & Combined Heat and Power .....	4,266	21
Net Generation (megawatthours).....	18,971,635	43
Electric Utilities .....	1,409	50
Independent Power Producers & Combined Heat and Power .....	18,970,226	14
Emissions (thousand metric tons)		
Sulfur Dioxide .....	20	41
Nitrogen Oxide .....	11	44
Carbon Dioxide .....	7,662	43
Sulfur Dioxide (lbs/MWh).....	2.3	39
Nitrogen Oxide (lbs/MWh).....	1.3	41
Carbon Dioxide (lbs/MWh).....	890	42
Total Retail Sales (megawatthours).....	11,971,837	43
Full Service Provider Sales (megawatthours).....	768,781	51
Deregulated Sales (megawatthours).....	11,203,056	7
Direct Use (megawatthours).....	4,367,847	9
Average Retail Price (cents/kWh).....	9.79	10

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Maine</b>			
1. William F Wyman.....	Petroleum	FPL Energy Wyman LLC	825
2. Westbrook Energy Center.....	Gas	Calpine Eastern Corp	506
3. Maine Independence Station.....	Gas	Casco Bay Energy Co LLC	490
4. Bucksport Mill.....	Other, Petroleum, Gas	International Paper Co- Bucksport	269
5. Rumford Power Associates.....	Gas	Calpine Corp	254
6. Androscoggin Energy Center.....	Other, Gas	Calpine Androscoggin Energy	130
7. Great Northern Paper.....	Hydro	Great Lakes Hydro America LLC	129
8. Somerset Plant.....	Petroleum, Other	Sappi Fine Paper North America-Somerset	115
9. Millinocket Mill.....	Petroleum, Other	Katahdin Paper Inc	103
10. Mason Steam.....	Petroleum	FPL Energy Mason LLC	98

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Maine</b>						
1. Constellation Power Source Inc.....	Power Marketer	5,356,445	4,156,009	1,112,825	87,611	0
2. FPL Energy Power Marketing Inc.....	Power Marketer	1,431,236	0	1,431,236	0	0
3. Constellation NewEnergy, Inc.....	Power Marketer	1,218,619	0	1,218,619	0	0
4. WPS Energy Services.....	Power Marketer	1,067,121	345,740	513,222	208,159	0
5. Select Energy.....	Power Marketer	295,952	0	239,070	56,882	0
Total Sales, Top Five Providers.....		9,369,373	4,501,749	4,514,972	352,652	0
Percent of Total State Sales.....		78	100	100	9	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Maine</b>							
<b>Electric Utilities</b> .....	<b>2,433</b>	<b>1,457</b>	<b>19</b>	<b>-41.7</b>	<b>63.6</b>	<b>51.5</b>	<b>0.4</b>
Petroleum.....	1,109	1,025	19	-36.4	29.0	36.3	.4
Nuclear.....	870	0	0	NM	22.7	.0	.0
Hydroelectric.....	422	402	0	NM	11.0	14.2	.0
Other Renewables.....	32	30	0	NM	.8	1.1	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,395</b>	<b>1,368</b>	<b>4,266</b>	<b>13.2</b>	<b>36.4</b>	<b>48.4</b>	<b>99.6</b>
Coal.....	96	96	85	-1.3	2.5	3.4	2.0
Petroleum.....	181	181	1,097	22.2	4.7	6.4	25.6
Natural Gas.....	0	0	1,352	NM	.0	.0	31.6
Dual Fired.....	15	15	319	40.4	.4	.5	7.4
Hydroelectric.....	351	355	720	8.3	9.2	12.6	16.8
Other Renewables.....	752	721	693	-9	19.6	25.5	16.2
<b>Total Electric Industry</b> .....	<b>3,828</b>	<b>2,827</b>	<b>4,285</b>	<b>1.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	96	96	85	-1.3	2.5	3.4	2.0
Petroleum.....	1,290	1,207	1,116	-1.6	33.7	42.7	26.0
Natural Gas.....	0	0	1,352	NM	.0	.0	31.6
Dual Fired.....	15	15	318	40.4	.4	.5	7.4
Nuclear.....	870	0	0	NM	22.7	.0	.0
Hydroelectric.....	773	758	721	-8	20.2	26.8	16.8
Other Renewables.....	784	751	693	-1.4	20.5	26.6	16.2

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Maine</b>							
<b>Electric Utilities</b> .....	<b>9,015,544</b>	<b>3,549,008</b>	<b>1,409</b>	<b>-62.2</b>	<b>54.8</b>	<b>32.3</b>	<b>*</b>
Petroleum.....	701,843	1,728,702	1,409	-49.8	4.3	15.7	*
Nuclear.....	6,631,984	0	0	NM	40.3	.0	0.0
Hydroelectric.....	1,681,717	1,820,306	0	NM	10.2	16.5	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>7,440,606</b>	<b>7,454,309</b>	<b>18,970,227</b>	<b>11.0</b>	<b>45.2</b>	<b>67.7</b>	<b>100.0</b>
Coal.....	676,920	588,362	376,532	-6.3	4.1	5.3	2.0
Petroleum.....	1,170,495	1,416,461	1,918,139	5.6	7.1	12.9	10.1
Natural Gas.....	9,267	3,369	9,438,704	115.9	.1	*	49.8
Other Gases.....	3,928	4,943	34	-41.0	*	*	.0
Hydroelectric.....	1,829,050	1,895,660	3,172,623	6.3	11.1	17.2	16.7
Other Renewables.....	3,750,946	3,545,514	3,909,608	.5	22.8	32.2	20.6
Other.....	0	0	154,586	NM	.0	.0	.8
<b>Total Electric Industry</b> .....	<b>16,456,150</b>	<b>11,003,317</b>	<b>18,971,635</b>	<b>1.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	676,920	588,362	376,532	-6.3	4.1	5.3	2.0
Petroleum.....	1,872,338	3,145,163	1,919,548	.3	11.4	28.6	10.1
Natural Gas.....	9,267	3,369	9,438,704	115.9	.1	*	49.8
Other Gases.....	3,928	4,943	34	-41.0	*	*	.0
Nuclear.....	6,631,984	0	0	NM	40.3	.0	.0
Hydroelectric.....	3,510,767	3,715,966	3,172,623	-1.1	21.3	33.8	16.7
Other Renewables.....	3,750,946	3,545,514	3,909,608	.5	22.8	32.2	20.6
Other.....	0	0	154,586	NM	.0	.0	.8

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Maine</b>				
Coal (cents per million Btu).....	0.0	0.0	W	W
Average heat value (Btu per pound).....	0	0	13,124	NM
Average sulfur Content (percent).....	.0	.0	.7	NM
Petroleum (cents per million Btu).....	213.8	202.1	555.7	11.2
Average heat value (Btu per gallon).....	150,208	151,240	150,318	*
Average sulfur Content (percent).....	1.2	1.2	.8	-4.5
Natural Gas (cents per million Btu).....	.0	.0	584.2	NM
Average heat value (Btu per cubic foot).....	0	0	1,042	NM

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Maine</b>				
Sulfur Dioxide				
Coal .....	4	4	1	-11.9
Petroleum .....	7	32	9	4.0
Natural Gas .....	—	—	*	NM
Other .....	10	6	9	-1.2
Total .....	21	42	20	-5
Nitrogen Oxide				
Coal .....	4	2	1	-10.9
Petroleum .....	5	7	3	-6.5
Gas .....	*	*	1	63.9
Other .....	6	6	6	.8
Total .....	14	15	11	-2.5
Carbon Dioxide				
Coal .....	1,054	672	634	-5.5
Petroleum .....	3,340	4,476	2,395	-3.6
Gas .....	7	3	4,145	103.1
Geothermal .....	—	—	—	NM
Other .....	79	87	488	22.4
Total .....	4,480	5,237	7,662	6.1

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Maine</b>							
Retail Sales (thousand megawatthours)							
Residential .....	3,692	3,589	4,219	1.5	31.8	30.9	35.2
Commercial .....	2,812	3,324	3,959	3.9	24.2	28.7	33.1
Industrial .....	4,952	4,622	3,793	-2.9	42.7	39.8	31.7
Other .....	151	63	NA	NM	1.3	.5	NA
Total .....	11,606	11,599	11,972	.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	455	467	522	1.5	40.7	41.3	44.5
Commercial .....	286	343	409	4.0	25.6	30.3	34.9
Industrial .....	356	306	241	-4.2	31.8	27.1	20.6
Other .....	22	15	NA	NM	2.0	1.3	NA
Total .....	1,118	1,131	1,172	.5	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	12.32	13.02	12.37	*	NA	NA	NA
Commercial .....	10.16	10.33	10.34	.2	NA	NA	NA
Industrial .....	7.18	6.61	6.35	-1.4	NA	NA	NA
Other .....	14.63	23.64	NA	NM	NA	NA	NA
Total .....	9.63	9.75	9.79	.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Maine</b>								
Number of Entities.....	1	4	NA	3	2	14	5	29
Number of Retail Customers.....	33	9,976	NA	2,402	2	748,446	NA	760,859
Retail Sales (thousand megawatthours) .....	*	385	NA	13	371	11,203	NA	11,972
Percentage of Retail Sales .....	*	3.22	NA	.10	3.10	93.58	NA	100.00
Revenue from Retail Sales (million dollars) .....	*	26	NA	2	8	558	579	1,172
Percentage of Revenue.....	*	2.24	NA	.19	.65	47.56	49.36	100.00
Average Retail Price (cents/kWh).....	10.33	6.82	NA	17.86	2.05	4.98	5.16	9.79

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Maryland</b>		
NERC Region(s).....		ECAR/MAAC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	12,472	29
Electric Utilities .....	71	47
Independent Power Producers & Combined Heat and Power .....	12,402	8
Net Generation (megawatthours).....	52,244,237	26
Electric Utilities .....	51,722	47
Independent Power Producers & Combined Heat and Power .....	52,192,515	7
Emissions (thousand metric tons)		
Sulfur Dioxide .....	264	14
Nitrogen Oxide.....	69	29
Carbon Dioxide.....	32,632	29
Sulfur Dioxide (lbs/MWh).....	11.1	5
Nitrogen Oxide (lbs/MWh).....	2.9	22
Carbon Dioxide (lbs/MWh).....	1,377	25
Total Retail Sales (megawatthours).....	71,258,583	21
Full Service Provider Sales (megawatthours).....	59,692,937	24
Deregulated Sales (megawatthours).....	11,565,646	6
Direct Use (megawatthours).....	1,197,044	28
Average Retail Price (cents/kWh).....	6.45	28

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Maryland</b>			
1. Chalk Point LLC.....	Gas, Petroleum, Coal	Mirant Chalk Point LLC	2,429
2. Calvert Cliffs Nuclear Power Plant.....	Nuclear	Calvert Cliffs Nuclear PP Inc	1,703
3. Morgantown Generating Plant.....	Petroleum, Coal	Mirant Mid-Atlantic LLC	1,492
4. Brandon Shores .....	Petroleum, Coal	Constellation Power Source Gen	1,286
5. Herbert A Wagner.....	Gas, Petroleum, Coal	Constellation Power Source Gen	1,014
6. Dickerson.....	Petroleum, Gas, Coal	Mirant Mid-Atlantic LLC	853
7. Rockspring Generating.....	Gas	Consolidated Edison Energy Inc	634
8. Conowingo.....	Hydro	Susquehanna Electric Co	548
9. C P Crane.....	Gas, Petroleum, Coal	Constellation Power Source Gen	399
10. Perryman.....	Petroleum	Constellation Power Source Gen	360

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Maryland</b>						
1. Baltimore Gas & Electric Co.....	Investor-Owned	31,114,062	12,770,131	3,409,815	14,850,717	83,399
2. Potomac Electric Power Co.....	Investor-Owned	10,468,174	5,080,577	5,387,491	106	0
3. Potomac Edison Co.....	Investor-Owned	9,415,103	3,010,474	1,842,410	4,562,219	0
4. Washington Gas Energy Services.....	Power Marketer	4,330,477	778,387	3,090,615	272,834	188,641
5. Delmarva Power & Light Company.....	Investor-Owned	4,068,810	2,145,153	1,485,852	437,805	0
Total Sales, Top Five Providers.....		59,396,626	23,784,722	15,216,183	20,123,681	272,040
Percent of Total State Sales.....		83	89	90	74	59

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Maryland</b>							
<b>Electric Utilities.....</b>	<b>10,837</b>	<b>10,971</b>	<b>71</b>	<b>-42.8</b>	<b>97.3</b>	<b>94.7</b>	<b>0.6</b>
Coal.....	4,631	4,647	0	NM	41.6	40.1	.0
Petroleum.....	1,417	1,289	50	-31.0	12.7	11.1	.4
Natural Gas.....	1,207	1,456	0	NM	10.8	12.6	.0
Dual Fired.....	1,377	1,374	21	-37.2	12.4	11.9	.2
Nuclear.....	1,675	1,675	0	NM	15.0	14.5	.0
Hydroelectric.....	530	530	0	NM	4.8	4.6	.0
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>299</b>	<b>610</b>	<b>12,402</b>	<b>51.3</b>	<b>2.7</b>	<b>5.3</b>	<b>99.4</b>
Coal.....	60	60	4,957	63.3	.5	.5	39.7
Petroleum.....	2	2	835	95.5	*	*	6.7
Natural Gas.....	0	248	972	NM	.0	2.1	7.8
Other Gases.....	0	0	152	NM	.0	.0	1.2
Dual Fired.....	172	172	3,090	37.8	1.5	1.5	24.8
Nuclear.....	0	0	1,703	NM	.0	.0	13.7
Hydroelectric.....	0	0	566	NM	.0	.0	4.5
Other Renewables.....	65	128	127	7.7	.6	1.1	1.0
<b>Total Electric Industry.....</b>	<b>11,136</b>	<b>11,582</b>	<b>12,472</b>	<b>1.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,691	4,707	4,957	.6	42.1	40.6	39.7
Petroleum.....	1,419	1,291	885	-5.1	12.7	11.1	7.1
Natural Gas.....	1,207	1,704	972	-2.4	10.8	14.7	7.8
Other Gases.....	0	0	152	NM	.0	.0	1.2
Dual Fired.....	1,549	1,547	3,110	8.1	13.9	13.4	24.9
Nuclear.....	1,675	1,675	1,703	.2	15.0	14.5	13.7
Hydroelectric.....	530	530	566	.7	4.8	4.6	4.5
Other Renewables.....	65	128	127	7.7	.6	1.1	1.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Maryland</b>							
<b>Electric Utilities</b> .....	<b>43,765,565</b>	<b>48,513,503</b>	<b>51,722</b>	<b>-52.7</b>	<b>96.5</b>	<b>95.8</b>	<b>0.1</b>
Coal.....	25,394,481	29,077,013	0	NM	56.0	57.4	.0
Petroleum.....	4,133,533	3,311,978	51,722	-38.5	9.1	6.5	.1
Natural Gas.....	992,607	1,054,177	0	NM	2.2	2.1	.0
Nuclear.....	11,235,408	13,330,598	0	NM	24.8	26.3	.0
Hydroelectric.....	2,009,536	1,739,737	0	NM	4.4	3.4	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,574,053</b>	<b>2,139,514</b>	<b>52,192,515</b>	<b>47.6</b>	<b>3.5</b>	<b>4.2</b>	<b>99.9</b>
Coal.....	230,277	217,714	29,939,086	71.7	.5	.4	57.3
Petroleum.....	141,693	142,372	3,520,461	42.9	.3	.3	6.7
Natural Gas.....	179,435	936,419	1,195,643	23.5	.4	1.8	2.3
Other Gases.....	501,762	82,316	325,355	-4.7	1.1	.2	.6
Nuclear.....	0	0	13,690,713	NM	.0	.0	26.2
Hydroelectric.....	0	0	2,646,984	NM	.0	.0	5.1
Other Renewables.....	520,886	760,693	874,274	5.9	1.1	1.5	1.7
<b>Total Electric Industry</b> .....	<b>45,339,618</b>	<b>50,653,017</b>	<b>52,244,237</b>	<b>1.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	25,624,758	29,294,727	29,939,086	1.7	56.5	57.8	57.3
Petroleum.....	4,275,226	3,454,350	3,572,183	-2.0	9.4	6.8	6.8
Natural Gas.....	1,172,042	1,990,596	1,195,643	.2	2.6	3.9	2.3
Other Gases.....	501,762	82,316	325,355	-4.7	1.1	.2	.6
Nuclear.....	11,235,408	13,330,598	13,690,713	2.2	24.8	26.3	26.2
Hydroelectric.....	2,009,536	1,739,737	2,646,984	3.1	4.4	3.4	5.1
Other Renewables.....	520,886	760,693	874,274	5.9	1.1	1.5	1.7

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Maryland</b>				
Coal (cents per million Btu).....	155.3	145.7	163.0	0.5
Average heat value (Btu per pound).....	12,824	12,914	12,708	-1
Average sulfur Content (percent).....	1.2	1.2	1.1	-9
Petroleum (cents per million Btu).....	244.5	211.5	533.5	9.1
Average heat value (Btu per gallon).....	150,636	150,776	148,564	-2
Average sulfur Content (percent).....	1.4	1.0	.6	-8.6
Natural Gas (cents per million Btu).....	246.6	263.2	536.9	9.0
Average heat value (Btu per cubic foot).....	1,043	1,047	1,047	*

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Maryland</b>				
Sulfur Dioxide				
Coal .....	212	247	247	1.7
Petroleum .....	29	18	14	-7.9
Natural Gas .....	*	*	*	4.6
Other .....	2	2	3	.5
Total .....	243	268	264	.9
Nitrogen Oxide				
Coal .....	89	104	61	-4.0
Petroleum .....	6	7	4	-5.3
Gas .....	2	2	1	-12.9
Other .....	1	2	3	11.7
Total .....	99	115	69	-3.8
Carbon Dioxide				
Coal .....	24,087	27,193	28,399	1.8
Petroleum .....	3,971	3,165	2,964	-3.2
Gas .....	993	1,252	673	-4.2
Geothermal .....	—	—	—	NM
Other .....	86	151	595	24.1
Total .....	29,137	31,761	32,632	1.3

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Maryland</b>							
Retail Sales (thousand megawatthours)							
Residential .....	21,666	22,407	26,671	2.3	39.6	38.7	37.4
Commercial .....	13,254	24,284	16,950	2.8	24.2	42.0	23.8
Industrial .....	19,037	10,344	27,176	4.0	34.8	17.9	38.1
Other .....	794	799	NA	NM	1.4	1.4	NA
Transportation .....	NA	NA	461	NM	NA	NA	.6
Total .....	54,752	57,834	71,259	3.0	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,817	1,890	2,060	1.4	47.2	46.7	44.8
Commercial .....	953	1,656	1,178	2.4	24.8	40.9	25.6
Industrial .....	1,008	429	1,329	3.1	26.2	10.6	28.9
Other .....	68	70	NA	NM	1.8	1.7	NA
Transportation .....	NA	NA	27	NM	NA	NA	.6
Total .....	3,847	4,045	4,594	2.0	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.39	8.44	7.73	-9	NA	NA	NA
Commercial .....	7.19	6.82	6.95	-4	NA	NA	NA
Industrial .....	5.30	4.14	4.89	-9	NA	NA	NA
Other .....	8.58	8.82	NA	NM	NA	NA	NA
Transportation .....	NA	NA	5.78	NM	NA	NA	NA
Total .....	7.03	6.99	6.45	-9	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	1	6	5	24
Number of Retail Customers.....	2,010,338	32,111	NA	174,291	1	78,564	NA	2,295,305
Retail Sales (thousand megawatthours) .....	55,066	754	NA	3,854	18	11,566	NA	71,259
Percentage of Retail Sales .....	77.28	1.06	NA	5.41	.03	16.23	NA	100.00
Revenue from Retail Sales (million dollars) .....	3,529	49	NA	274	1	526	214	4,594
Percentage of Revenue.....	76.83	1.08	NA	5.97	.02	11.44	4.66	100.00
Average Retail Price (cents/kWh).....	6.41	6.56	NA	7.11	5.35	4.55	1.85	6.45

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Massachusetts</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	13,877	26
Electric Utilities .....	981	44
Independent Power Producers & Combined Heat and Power .....	12,898	7
Net Generation (megawatthours).....	48,385,024	29
Electric Utilities .....	2,055,622	43
Independent Power Producers & Combined Heat and Power .....	46,329,402	9
Emissions (thousand metric tons)		
Sulfur Dioxide .....	82	28
Nitrogen Oxide .....	33	37
Carbon Dioxide .....	27,197	33
Sulfur Dioxide (lbs/MWh).....	3.7	32
Nitrogen Oxide (lbs/MWh).....	1.5	39
Carbon Dioxide (lbs/MWh).....	1,239	35
Total Retail Sales (megawatthours).....	55,514,357	25
Full Service Provider Sales (megawatthours).....	45,775,113	27
Deregulated Sales (megawatthours).....	9,739,244	9
Direct Use (megawatthours).....	2,452,982	18
Average Retail Price (cents/kWh).....	10.56	6

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Massachusetts</b>			
1. Exelon Mystic Generating Station.....	Petroleum, Gas	Exelon New England Holdings LLC	1,961
2. Brayton Point.....	Gas, Petroleum, Coal	U S Gen New England Inc	1,541
3. Canal.....	Gas, Petroleum	Mirant Canal LLC	1,112
4. Northfield Mountain.....	Hydro	Northeast Generation Services Company	1,080
5. Salem Harbor.....	Petroleum, Coal	U S Gen New England Inc	705
6. Pilgrim Nuclear Power Station.....	Nuclear	Entergy Nuclear Generation Co	685
7. Exelon Fore River Generating Station.....	Gas	Exelon New England Holdings LLC	684
8. Bear Swamp .....	Hydro	U S Gen New England Inc	563
9. ANP Blackstone Energy Project.....	Gas	ANP Blackstone Energy Co	444
10. ANP Bellingham Energy Project.....	Gas	ANP Bellingham Energy Co	443

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Massachusetts</b>						
1. Massachusetts Electric Co.....	Investor-Owned	17,212,298	8,376,397	6,568,402	2,267,499	0
2. Boston Edison Co.....	Investor-Owned	11,678,710	4,184,044	6,726,608	768,058	0
3. Western Massachusetts Elec Co.....	Investor-Owned	3,443,696	1,507,117	1,255,829	680,750	0
4. Commonwealth Electric Co.....	Investor-Owned	3,218,221	1,765,451	1,263,247	189,523	0
5. Constellation NewEnergy, Inc.....	Power Marketer	2,862,409	0	2,862,409	0	0
Total Sales, Top Five Providers.....		38,415,334	15,833,009	18,676,495	3,905,830	0
Percent of Total State Sales.....		69	81	73	39	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Massachusetts</b>							
<b>Electric Utilities</b> .....	<b>9,286</b>	<b>3,385</b>	<b>981</b>	<b>-22.1</b>	<b>85.4</b>	<b>32.9</b>	<b>7.1</b>
Coal.....	1,675	328	145	-23.8	15.4	3.2	1.0
Petroleum.....	2,555	431	311	-20.9	23.5	4.2	2.2
Natural Gas.....	752	115	2	-48.3	6.9	1.1	*
Dual Fired.....	1,778	574	479	-13.6	16.3	5.6	3.5
Nuclear.....	665	665	0	NM	6.1	6.5	.0
Hydroelectric.....	208	152	44	-15.9	1.9	1.5	.3
Pumped Storage.....	1,653	1,120	0	NM	15.2	10.9	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,591</b>	<b>6,908</b>	<b>12,898</b>	<b>26.2</b>	<b>14.6</b>	<b>67.1</b>	<b>92.9</b>
Coal.....	31	1,799	1,515	54.1	.3	17.5	10.9
Petroleum.....	50	584	1,408	44.9	.5	5.7	10.1
Natural Gas.....	312	673	4,311	33.9	2.9	6.5	31.1
Dual Fired.....	832	2,783	2,814	14.5	7.6	27.0	20.3
Nuclear.....	0	0	685	NM	.0	.0	4.9
Hydroelectric.....	59	108	217	15.6	.5	1.0	1.6
Other Renewables.....	307	341	305	-1	2.8	3.3	2.2
Pumped Storage.....	0	620	1,643	NM	.0	6.0	11.8
<b>Total Electric Industry</b> .....	<b>10,878</b>	<b>10,296</b>	<b>13,877</b>	<b>2.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,706	2,128	1,659	-3	15.7	20.7	12.0
Petroleum.....	2,605	1,015	1,718	-4.5	23.9	9.9	12.4
Natural Gas.....	1,064	789	4,314	16.8	9.8	7.7	31.1
Dual Fired.....	2,611	3,357	3,292	2.6	24.0	32.6	23.7
Nuclear.....	665	665	685	.3	6.1	6.5	4.9
Hydroelectric.....	267	260	261	-3	2.5	2.5	1.9
Other Renewables.....	307	342	305	-1	2.8	3.3	2.2
Pumped Storage.....	1,653	1,740	1,643	-1	15.2	16.9	11.8

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Massachusetts</b>							
<b>Electric Utilities</b> .....	<b>27,466,049</b>	<b>26,036,881</b>	<b>2,055,622</b>	<b>-25.0</b>	<b>72.4</b>	<b>57.0</b>	<b>4.2</b>
Coal.....	10,209,727	8,168,608	1,074,514	-22.1	26.9	17.9	2.2
Petroleum.....	9,561,302	10,019,730	517,767	-27.7	25.2	21.9	1.1
Natural Gas.....	3,736,177	1,818,857	234,942	-26.5	9.8	4.0	.5
Nuclear.....	3,858,569	5,698,414	0	NM	10.2	12.5	.0
Hydroelectric.....	746,370	760,785	228,399	-12.3	2.0	1.7	.5
Pumped Storage.....	-646,096	-429,513	0	NM	-1.7	-9	.0
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>10,473,015</b>	<b>19,646,735</b>	<b>46,329,402</b>	<b>18.0</b>	<b>27.6</b>	<b>43.0</b>	<b>95.8</b>
Coal.....	110,420	3,031,150	9,821,976	64.7	.3	6.6	20.3
Petroleum.....	537,339	4,514,636	6,941,271	32.9	1.4	9.9	14.3
Natural Gas.....	7,583,499	9,802,971	22,188,989	12.7	20.0	21.5	45.9
Nuclear.....	0	0	4,977,955	NM	.0	.0	10.3
Hydroelectric.....	191,547	268,956	846,783	18.0	.5	.6	1.8
Other Renewables.....	2,050,210	2,055,094	2,051,084	*	5.4	4.5	4.2
Pumped Storage.....	0	-26,072	-510,929	NM	.0	-1	-1.1
Other.....	0	0	12,273	NM	.0	.0	*
<b>Total Electric Industry</b> .....	<b>37,939,064</b>	<b>45,683,616</b>	<b>48,385,024</b>	<b>2.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	10,320,147	11,199,758	10,896,490	.6	27.2	24.5	22.5
Petroleum.....	10,098,641	14,534,366	7,459,038	-3.3	26.6	31.8	15.4
Natural Gas.....	11,319,676	11,621,828	22,423,931	7.9	29.8	25.4	46.3
Nuclear.....	3,858,569	5,698,414	4,977,955	2.9	10.2	12.5	10.3
Hydroelectric.....	937,917	1,029,741	1,075,182	1.5	2.5	2.3	2.2
Other Renewables.....	2,050,210	2,055,094	2,051,084	*	5.4	4.5	4.2
Pumped Storage.....	-646,096	-455,585	-510,929	NM	-1.7	-1.0	-1.1
Other.....	0	0	12,273	NM	.0	.0	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Massachusetts</b>				
Coal (cents per million Btu).....	167.8	167.6	W	W
Average heat value (Btu per pound).....	12,814	12,617	12,200	-0.5
Average sulfur Content (percent).....	.9	.7	1.1	2.5
Petroleum (cents per million Btu).....	262.4	192.6	462.8	6.5
Average heat value (Btu per gallon).....	150,871	151,403	149,850	-1
Average sulfur Content (percent).....	1.4	1.0	.8	-5.6
Natural Gas (cents per million Btu).....	224.1	273.8	534.4	10.1
Average heat value (Btu per cubic foot).....	1,037	1,029	1,032	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Massachusetts</b>				
Sulfur Dioxide				
Coal .....	64	59	48	-3.2
Petroleum .....	52	82	34	-4.6
Natural Gas .....	*	*	*	6.6
Other .....	1	*	*	-9.6
Total .....	116	141	82	-3.8
Nitrogen Oxide				
Coal .....	27	21	15	-5.9
Petroleum .....	9	17	6	-3.9
Gas .....	9	10	4	-8.3
Other .....	3	4	6	7.5
Total .....	49	52	33	-4.3
Carbon Dioxide				
Coal .....	9,333	10,117	9,976	.7
Petroleum .....	8,512	11,976	6,390	-3.1
Gas .....	5,786	6,116	9,576	5.8
Geothermal .....	—	—	—	NM
Other .....	379	349	1,256	14.2
Total .....	24,009	28,558	27,197	1.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Massachusetts</b>							
Retail Sales (thousand megawatthours)							
Residential .....	16,049	16,388	19,591	2.2	34.8	33.7	35.3
Commercial .....	19,371	21,422	25,648	3.2	42.0	44.1	46.2
Industrial .....	9,710	10,212	9,984	.3	21.1	21.0	18.0
Other .....	961	585	NA	NM	2.1	1.2	NA
Transportation .....	NA	NA	292	NM	NA	NA	.5
Total .....	46,091	48,607	55,514	2.1	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,779	1,737	2,272	2.8	38.6	37.3	38.8
Commercial .....	1,889	2,003	2,687	4.0	41.0	43.0	45.8
Industrial .....	822	835	891	.9	17.8	17.9	15.2
Other .....	121	84	NA	NM	2.6	1.8	NA
Transportation .....	NA	NA	12	NM	NA	NA	.2
Total .....	4,611	4,659	5,862	2.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	11.09	10.60	11.60	.5	NA	NA	NA
Commercial .....	9.75	9.35	10.48	.8	NA	NA	NA
Industrial .....	8.46	8.18	8.93	.6	NA	NA	NA
Other .....	12.60	14.35	NA	NM	NA	NA	NA
Transportation .....	NA	NA	4.09	NM	NA	NA	NA
Total .....	10.00	9.59	10.56	.6	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	7	41	NA	NA	4	9	8	69
Number of Retail Customers.....	2,456,890	382,808	NA	NA	132	87,478	NA	2,927,308
Retail Sales (thousand megawatthours) .....	37,545	7,913	NA	NA	318	9,739	NA	55,514
Percentage of Retail Sales .....	67.63	14.25	NA	NA	.57	17.54	NA	100.00
Revenue from Retail Sales (million dollars) .....	4,182	743	NA	NA	30	496	411	5,862
Percentage of Revenue.....	71.34	12.67	NA	NA	.51	8.46	7.02	100.00
Average Retail Price (cents/kWh).....	11.14	9.39	NA	NA	9.42	5.09	4.22	10.56

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Michigan</b>		
NERC Region(s).....		ECAR/MAPP/MAIN
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	30,450	9
Electric Utilities .....	23,346	6
Independent Power Producers & Combined Heat and Power .....	7,106	16
Net Generation (megawatthours).....	111,347,060	12
Electric Utilities .....	96,634,055	7
Independent Power Producers & Combined Heat and Power .....	14,713,005	17
Emissions (thousand metric tons)		
Sulfur Dioxide .....	364	12
Nitrogen Oxide.....	130	12
Carbon Dioxide.....	73,278	12
Sulfur Dioxide (lbs/MWh).....	7.2	16
Nitrogen Oxide (lbs/MWh).....	2.6	28
Carbon Dioxide (lbs/MWh).....	1,451	23
Total Retail Sales (megawatthours).....	108,877,193	10
Full Service Provider Sales (megawatthours).....	98,765,181	12
Deregulated Sales (megawatthours).....	10,112,012	8
Direct Use (megawatthours).....	2,919,243	16
Average Retail Price (cents/kWh).....	6.85	23

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Michigan</b>			
1. Monroe.....	Petroleum, Coal	Detroit Edison Co	3,059
2. Donald C Cook .....	Nuclear	Indiana Michigan Power Co	2,093
3. Ludington.....	Hydro	Consumers Energy Co	1,872
4. Midland Cogeneration Venture.....	Petroleum, Gas	Midland Cogeneration Venture	1,817
5. Dan E Karn .....	Gas, Petroleum, Coal	Consumers Energy Co	1,791
6. St Clair.....	Gas, Petroleum, Coal	Detroit Edison Co	1,690
7. Belle River.....	Petroleum, Gas, Coal	Detroit Edison Co	1,499
8. J H Campbell.....	Petroleum, Coal	Consumers Energy Co	1,448
9. Fermi.....	Petroleum, Nuclear	Detroit Edison Co	1,162
10. Covert Generating Project.....	Petroleum, Nuclear	Covert Generating Co LLC	1,058

See footnotes at end of tables.



**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Michigan</b>						
1. Detroit Edison Co.....	Investor-Owned	43,671,787	15,074,412	16,343,669	12,253,706	0
2. Consumers Energy Co.....	Investor-Owned	34,238,970	12,462,333	11,375,353	10,401,284	0
3. Quest Energy LLC.....	Power Marketer	3,740,248	0	2,020,644	1,719,604	0
4. Indiana Michigan Power Co.....	Investor-Owned	2,946,225	1,147,469	745,174	1,053,582	0
5. Wisconsin Electric Power Co.....	Investor-Owned	2,935,934	167,357	148,483	2,620,094	0
Total Sales, Top Five Providers.....		87,533,164	28,851,571	30,633,323	28,048,270	0
Percent of Total State Sales.....		80	86	87	70	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Michigan</b>							
<b>Electric Utilities.....</b>	<b>22,414</b>	<b>21,944</b>	<b>23,346</b>	<b>0.5</b>	<b>89.0</b>	<b>89.1</b>	<b>76.7</b>
Coal.....	11,928	11,840	11,636	-.3	47.3	48.1	38.2
Petroleum.....	1,505	2,360	1,598	.7	6.0	9.6	5.2
Natural Gas.....	403	406	2,184	20.7	1.6	1.6	7.2
Other Gases.....	282	0	0	NM	1.1	.0	.0
Dual Fired.....	2,128	1,306	1,867	-1.4	8.4	5.3	6.1
Nuclear.....	3,967	3,918	3,971	*	15.7	15.9	13.0
Hydroelectric.....	329	241	218	-4.5	1.3	1.0	.7
Other Renewables.....	0	1	0	NM	.0	*	.0
Pumped Storage.....	1,872	1,872	1,872	.0	7.4	7.6	6.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power.....</b>	<b>2,777</b>	<b>2,675</b>	<b>7,106</b>	<b>11.0</b>	<b>11.0</b>	<b>10.9</b>	<b>23.3</b>
Coal.....	654	358	354	-6.6	2.6	1.5	1.2
Petroleum.....	2	7	46	41.7	*	*	.2
Natural Gas.....	1,659	1,831	6,220	15.8	6.6	7.4	20.4
Dual Fired.....	79	41	89	1.3	.3	.2	.3
Hydroelectric.....	26	26	28	.8	.1	.1	.1
Other Renewables.....	357	412	369	.4	1.4	1.7	1.2
<b>Total Electric Industry.....</b>	<b>25,191</b>	<b>24,616</b>	<b>30,450</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	12,583	12,197	11,989	-.5	49.9	49.5	39.4
Petroleum.....	1,507	2,368	1,644	1.0	6.0	9.6	5.4
Natural Gas.....	2,062	2,235	8,404	16.9	8.2	9.1	27.6
Other Gases.....	282	0	0	NM	1.1	.0	.0
Dual Fired.....	2,208	1,347	1,957	-1.3	8.8	5.5	6.4
Nuclear.....	3,967	3,918	3,971	*	15.7	15.9	13.0
Hydroelectric.....	354	267	245	-4.0	1.4	1.1	.8
Other Renewables.....	356	412	368	.4	1.4	1.7	1.2
Pumped Storage.....	1,872	1,872	1,872	.0	7.4	7.6	6.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Michigan</b>							
<b>Electric Utilities</b> .....	<b>83,720,636</b>	<b>85,146,307</b>	<b>96,634,055</b>	<b>1.6</b>	<b>85.2</b>	<b>84.7</b>	<b>86.8</b>
Coal.....	67,538,611	69,142,807	66,448,916	-2	68.7	68.8	59.7
Petroleum.....	655,860	1,005,170	883,847	3.4	.7	1.0	.8
Natural Gas.....	656,757	2,152,055	1,098,627	5.9	.7	2.1	1.0
Nuclear.....	14,144,281	12,494,153	27,953,563	7.9	14.4	12.4	25.1
Hydroelectric.....	1,536,190	1,282,471	1,242,987	-2.3	1.6	1.3	1.1
Other Renewables.....	0	0	23,361	NM	.0	.0	*
Pumped Storage.....	-811,063	-930,349	-1,017,246	NM	-8	-9	-9
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>14,586,753</b>	<b>15,331,087</b>	<b>14,713,004</b>	<b>.1</b>	<b>14.8</b>	<b>15.3</b>	<b>13.2</b>
Coal.....	2,233,005	1,329,850	1,328,567	-5.6	2.3	1.3	1.2
Petroleum.....	169,663	166,491	180,046	.7	.2	.2	.2
Natural Gas.....	9,779,792	10,933,125	10,275,917	.6	9.9	10.9	9.2
Other Gases.....	4,634	5,294	2,193	-8.0	*	*	*
Hydroelectric.....	124,078	114,647	142,837	1.6	.1	.1	.1
Other Renewables.....	2,260,274	2,762,052	2,783,445	2.3	2.3	2.7	2.5
Other.....	15,307	19,628	0	NM	*	*	.0
<b>Total Electric Industry</b> .....	<b>98,307,389</b>	<b>100,477,394</b>	<b>111,347,060</b>	<b>1.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	69,771,616	70,472,657	67,777,483	-3	71.0	70.1	60.9
Petroleum.....	825,523	1,171,661	1,063,893	2.9	.8	1.2	1.0
Natural Gas.....	10,436,549	13,085,180	11,374,544	1.0	10.6	13.0	10.2
Other Gases.....	4,634	5,294	2,193	-8.0	*	*	*
Nuclear.....	14,144,281	12,494,153	27,953,563	7.9	14.4	12.4	25.1
Hydroelectric.....	1,660,268	1,397,118	1,385,824	-2.0	1.7	1.4	1.2
Other Renewables.....	2,260,274	2,762,052	2,806,806	2.4	2.3	2.7	2.5
Pumped Storage.....	-811,063	-930,349	-1,017,246	NM	-8	-9	-9
Other.....	15,307	19,628	0	NM	*	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Michigan</b>				
Coal (cents per million Btu).....	150.6	133.4	134.5	-1.2
Average heat value (Btu per pound).....	10,925	10,563	10,123	-8
Average sulfur Content (percent).....	.7	.7	.6	-2.0
Petroleum (cents per million Btu).....	292.7	241.2	W	W
Average heat value (Btu per gallon).....	145,441	130,455	146,846	.1
Average sulfur Content (percent).....	.7	1.6	1.7	9.4
Natural Gas (cents per million Btu).....	240.2	232.4	386.2	5.4
Average heat value (Btu per cubic foot).....	403	542	1,015	10.8

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Michigan</b>				
Sulfur Dioxide				
Coal .....	386	392	335	-1.6
Petroleum .....	15	7	24	5.4
Natural Gas .....	*	*	*	-1.5
Other .....	4	2	5	3.2
Total .....	406	401	364	-1.2
Nitrogen Oxide				
Coal .....	302	200	117	-10.0
Petroleum .....	2	3	3	3.8
Gas .....	12	14	5	-9.9
Other .....	4	6	5	4.2
Total .....	320	222	130	-9.5
Carbon Dioxide				
Coal .....	67,815	70,030	65,246	-4
Petroleum .....	1,293	1,701	1,478	1.5
Gas .....	6,087	7,733	5,968	-2
Geothermal .....	—	—	—	NM
Other .....	104	117	586	21.2
Total .....	75,299	79,581	73,278	-3

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Michigan</b>							
Retail Sales (thousand megawatthours)							
Residential .....	27,174	29,808	33,669	2.4	29.8	29.7	30.9
Commercial .....	30,412	33,840	35,391	1.7	33.4	33.7	32.5
Industrial .....	32,717	35,983	39,813	2.2	35.9	35.8	36.6
Other .....	857	875	NA	NM	.9	.9	NA
Transportation .....	NA	NA	3	NM	NA	NA	.0
Total .....	91,160	100,506	108,877	2.0	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	2,249	2,584	2,813	2.5	34.8	36.3	37.7
Commercial .....	2,411	2,642	2,672	1.1	37.3	37.1	35.8
Industrial .....	1,716	1,809	1,976	1.6	26.5	25.4	26.5
Other .....	90	94	NA	NM	1.4	1.3	NA
Total .....	6,467	7,129	7,461	1.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.28	8.67	8.35	.1	NA	NA	NA
Commercial .....	7.93	7.81	7.55	-.5	NA	NA	NA
Industrial .....	5.25	5.03	4.96	-.6	NA	NA	NA
Other .....	10.54	10.74	NA	NM	NA	NA	NA
Transportation .....	NA	NA	8.21	NM	NA	NA	NA
Total .....	7.09	7.09	6.85	-.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Michigan</b>								
Number of Entities.....	9	41	NA	10	5	12	2	79
Number of Retail Customers.....	4,136,049	299,378	NA	277,906	5	628	NA	4,713,966
Retail Sales (thousand megawatthours) .....	85,961	7,881	NA	2,817	2,106	10,112	NA	108,877
Percentage of Retail Sales .....	78.95	7.24	NA	2.59	1.93	9.29	NA	100.00
Revenue from Retail Sales (million dollars) .....	6,035	536	NA	255	129	455	51	7,461
Percentage of Revenue.....	80.89	7.18	NA	3.42	1.73	6.09	.69	100.00
Average Retail Price (cents/kWh).....	7.02	6.79	NA	9.06	6.14	4.50	.51	6.85

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

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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.

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Minnesota</b>		
NERC Region(s).....		MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	11,486	30
Electric Utilities .....	10,163	24
Independent Power Producers & Combined Heat and Power .....	1,322	37
Net Generation (megawatthours).....	55,050,995	25
Electric Utilities .....	49,576,276	20
Independent Power Producers & Combined Heat and Power .....	5,474,719	33
Emissions (thousand metric tons)		
Sulfur Dioxide .....	113	24
Nitrogen Oxide .....	94	16
Carbon Dioxide .....	39,637	25
Sulfur Dioxide (lbs/MWh).....	4.5	26
Nitrogen Oxide (lbs/MWh).....	3.8	14
Carbon Dioxide (lbs/MWh).....	1,587	18
Total Retail Sales (megawatthours).....	63,087,339	24
Full Service Provider Sales (megawatthours).....	63,087,339	23
Direct Use (megawatthours).....	2,928,218	15
Average Retail Price (cents/kWh).....	6.01	39

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Minnesota</b>			
1. Sherburne County.....	Petroleum, Coal	Northern States Power Co	2,302
2. Prairie Island .....	Nuclear	Northern States Power Co	1,044
3. Clay Boswell .....	Petroleum, Coal	Minnesota Power Inc	914
4. Allen S King .....	Gas, Petroleum, Coal	Northern States Power Co	573
5. Monticello.....	Nuclear	Northern States Power Co	569
6. Black Dog.....	Gas, Coal	Northern States Power Co	566
7. Lakefield Junction.....	Petroleum, Gas	Great River Energy	525
8. Pleasant Valley.....	Petroleum, Gas	Great River Energy	423
9. Riverside .....	Gas, Petroleum, Coal	Northern States Power Co	387
10. Inver Hills.....	Petroleum, Gas	Northern States Power Co	361

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Minnesota</b>						
1. Northern States Power Co.....	Investor-Owned	30,417,980	8,482,572	12,547,929	9,387,479	0
2. Minnesota Power Inc.....	Investor-Owned	8,425,421	978,743	1,232,503	6,214,175	0
3. Otter Tail Power Co.....	Investor-Owned	1,897,708	509,490	1,004,708	383,510	0
4. Anoka Electric Coop .....	Cooperative	1,759,978	1,040,821	592,477	126,680	0
5. Dakota Electric Assn.....	Cooperative	1,676,237	853,816	317,465	504,956	0
Total Sales, Top Five Providers.....		44,177,324	11,865,442	15,695,082	16,616,800	0
Percent of Total State Sales .....		70	57	76	76	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Minnesota</b>							
<b>Electric Utilities</b> .....	<b>8,951</b>	<b>9,089</b>	<b>10,163</b>	<b>1.4</b>	<b>93.6</b>	<b>89.8</b>	<b>88.5</b>
Coal.....	5,742	5,657	5,342	-.8	60.0	55.9	46.5
Petroleum.....	909	961	581	-4.9	9.5	9.5	5.1
Natural Gas.....	179	292	539	13.0	1.9	2.9	4.7
Dual Fired.....	330	264	1,826	20.9	3.5	2.6	15.9
Nuclear.....	1,564	1,630	1,613	.3	16.4	16.1	14.0
Hydroelectric.....	142	139	133	-.7	1.5	1.4	1.2
Other Renewables.....	85	146	129	4.7	.9	1.4	1.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>614</b>	<b>1,030</b>	<b>1,322</b>	<b>8.9</b>	<b>6.4</b>	<b>10.2</b>	<b>11.5</b>
Coal.....	345	344	358	.4	3.6	3.4	3.1
Petroleum.....	16	24	26	5.5	.2	.2	.2
Natural Gas.....	32	42	133	17.2	.3	.4	1.2
Dual Fired.....	20	265	172	27.0	.2	2.6	1.5
Hydroelectric.....	64	64	43	-4.3	.7	.6	.4
Other Renewables.....	137	291	579	17.4	1.4	2.9	5.0
Other.....	0	0	11	NM	.0	.0	.1
<b>Total Electric Industry</b> .....	<b>9,562</b>	<b>10,117</b>	<b>11,486</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,086	6,001	5,701	-.7	63.6	59.3	49.6
Petroleum.....	925	985	607	-4.6	9.7	9.7	5.3
Natural Gas.....	210	334	672	13.8	2.2	3.3	5.9
Dual Fired.....	349	528	1,998	21.4	3.6	5.2	17.4
Nuclear.....	1,564	1,630	1,613	.3	16.4	16.1	14.0
Hydroelectric.....	206	203	176	-1.7	2.2	2.0	1.5
Other Renewables.....	222	436	708	13.8	2.3	4.3	6.2
Other.....	0	0	11	NM	.0	.0	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Minnesota</b>							
<b>Electric Utilities</b> .....	<b>40,917,280</b>	<b>43,976,935</b>	<b>49,576,276</b>	<b>2.2</b>	<b>93.2</b>	<b>91.6</b>	<b>90.1</b>
Coal.....	26,399,834	29,884,402	33,157,032	2.6	60.1	62.2	60.2
Petroleum.....	596,987	649,866	845,239	3.9	1.4	1.4	1.5
Natural Gas.....	451,625	652,432	1,072,867	10.1	1.0	1.4	1.9
Nuclear.....	12,223,620	11,644,106	13,413,828	1.0	27.8	24.3	24.4
Hydroelectric.....	831,074	694,836	686,227	-2.1	1.9	1.4	1.2
Other Renewables.....	414,140	451,293	401,083	-4	.9	.9	.7
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,980,375</b>	<b>4,040,970</b>	<b>5,474,720</b>	<b>7.0</b>	<b>6.8</b>	<b>8.4</b>	<b>9.9</b>
Coal.....	1,725,869	1,922,475	2,498,497	4.2	3.9	4.0	4.5
Petroleum.....	10,713	17,405	27,826	11.2	*	*	.1
Natural Gas.....	205,232	943,600	771,569	15.9	.5	2.0	1.4
Hydroelectric.....	307,659	259,807	128,346	-9.3	.7	.5	.2
Other Renewables.....	730,902	897,683	2,009,833	11.9	1.7	1.9	3.7
Other.....	0	0	38,650	NM	.0	.0	.1
<b>Total Electric Industry</b> .....	<b>43,897,655</b>	<b>48,017,905</b>	<b>55,050,995</b>	<b>2.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	28,125,703	31,806,877	35,655,529	2.7	64.1	66.2	64.8
Petroleum.....	607,700	667,271	873,065	4.1	1.4	1.4	1.6
Natural Gas.....	656,857	1,596,032	1,844,436	12.2	1.5	3.3	3.3
Nuclear.....	12,223,620	11,644,106	13,413,828	1.0	27.8	24.3	24.4
Hydroelectric.....	1,138,733	954,643	814,573	-3.7	2.6	2.0	1.5
Other Renewables.....	1,145,042	1,348,976	2,410,916	8.6	2.6	2.8	4.4
Other.....	0	0	38,650	NM	.0	.0	.1

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Minnesota</b>				
Coal (cents per million Btu).....	113.9	106.9	W	W
Average heat value (Btu per pound).....	8,821	8,883	8,895	0.1
Average sulfur Content (percent).....	.5	.4	.5	-.1
Petroleum (cents per million Btu).....	85.5	74.5	W	W
Average heat value (Btu per gallon).....	73,031	72,783	133,093	6.9
Average sulfur Content (percent).....	5.2	5.4	5.7	1.1
Natural Gas (cents per million Btu).....	213.1	233.8	W	W
Average heat value (Btu per cubic foot).....	1,005	1,008	1,007	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Minnesota</b>				
Sulfur Dioxide				
Coal .....	117	127	83	-3.7
Petroleum .....	*	*	27	83.0
Natural Gas .....	—	—	*	NM
Other .....	8	2	3	-12.5
Total .....	126	130	113	-1.2
Nitrogen Oxide				
Coal .....	167	92	86	-7.1
Petroleum .....	*	*	3	47.9
Gas .....	2	2	2	-1.7
Other .....	4	4	4	-9
Total .....	173	98	94	-6.5
Carbon Dioxide				
Coal .....	31,830	33,771	37,048	1.7
Petroleum .....	644	717	881	3.5
Gas .....	881	1,402	1,220	3.7
Geothermal .....	—	—	—	NM
Other .....	52	46	487	28.2
Total .....	33,407	35,936	39,637	1.9

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Minnesota</b>							
Retail Sales (thousand megawatthours)							
Residential .....	16,007	17,378	20,638	2.9	31.3	30.6	32.7
Commercial .....	8,997	10,436	20,533	9.6	17.6	18.4	32.5
Industrial .....	25,451	28,214	21,916	-1.6	49.8	49.7	34.7
Other .....	701	716	NA	NM	1.4	1.3	NA
Total .....	51,155	56,744	63,087	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,146	1,273	1,579	3.6	39.8	39.3	41.6
Commercial .....	562	656	1,257	9.4	19.5	20.3	33.2
Industrial .....	1,122	1,257	955	-1.8	39.0	38.8	25.2
Other .....	51	54	NA	NM	1.8	1.7	NA
Total .....	2,880	3,239	3,791	3.1	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.16	7.33	7.65	.7	NA	NA	NA
Commercial .....	6.25	6.28	6.12	-.2	NA	NA	NA
Industrial .....	4.41	4.45	4.36	-.1	NA	NA	NA
Other .....	7.21	7.48	NA	NM	NA	NA	NA
Total .....	5.63	5.71	6.01	.7	NA	NA	NA

See footnotes at end of tables.



**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Minnesota</b>								
Number of Entities.....	5	125	1	47	1	NA	NA	179
Number of Retail Customers.....	1,398,351	336,550	5	675,996	1	NA	NA	2,410,903
Retail Sales (thousand megawatthours) .....	41,531	8,889	54	12,028	586	NA	NA	63,087
Percentage of Retail Sales .....	65.83	14.09	.09	19.07	.93	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	2,379	547	1	847	17	NA	NA	3,791
Percentage of Revenue.....	62.77	14.44	.02	22.34	.44	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.73	6.16	1.36	7.04	2.85	NA	NA	6.01

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Mississippi</b>		
NERC Region(s).....		SERC/SPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	17,282	23
Electric Utilities .....	9,279	26
Independent Power Producers & Combined Heat and Power .....	8,005	11
Net Generation (megawatthours).....	40,148,278	34
Electric Utilities .....	31,358,938	31
Independent Power Producers & Combined Heat and Power .....	8,789,340	26
Emissions (thousand metric tons)		
Sulfur Dioxide .....	86	26
Nitrogen Oxide.....	47	32
Carbon Dioxide.....	23,428	34
Sulfur Dioxide (lbs/MWh).....	4.7	23
Nitrogen Oxide (lbs/MWh).....	2.6	26
Carbon Dioxide (lbs/MWh).....	1,286	32
Total Retail Sales (megawatthours).....	45,543,881	28
Full Service Provider Sales (megawatthours).....	45,543,881	28
Direct Use (megawatthours).....	2,382,755	21
Average Retail Price (cents/kWh).....	6.46	27

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Mississippi</b>			
1. Victor J Daniel Jr.....	Petroleum, Gas, Coal	Mississippi Power Co	2,136
2. Grand Gulf.....	Nuclear	Entergy Operations Inc	1,263
3. Baxter Wilson.....	Petroleum, Gas	Entergy Mississippi Inc	1,200
4. Jack Watson.....	Gas, Coal	Mississippi Power Co	1,074
5. Magnolia Power Plant.....	Gas	InterGen North America	863
6. Batesville Generation Facility.....	Gas	LSP Energy Ltd Partnership	858
7. Caledonia.....	Gas	Caledonia Operating Serv LLC	783
8. Southaven Energy LLC.....	Gas	Southaven Operating Services, LLC	783
9. Gerald Andrus.....	Gas, Petroleum	Entergy Mississippi Inc	741
10. Reliant Energy Choctaw County .....	Gas	Reliant Energy Power Gen Inc	726

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Mississippi</b>						
1. Entergy Mississippi Inc.....	Investor-Owned	12,891,221	5,091,849	4,860,291	2,939,081	0
2. Mississippi Power Co.....	Investor-Owned	9,320,667	2,255,445	2,954,023	4,111,199	0
3. Tennessee Valley Authority .....	Federal	3,212,150	0	0	3,212,150	0
4. Southern Pine Elec Pwr Assn .....	Cooperative	1,761,370	879,602	248,431	633,337	0
5. Coast Electric Power Assn.....	Cooperative	1,459,442	987,196	251,848	220,398	0
Total Sales, Top Five Providers.....		28,644,850	9,214,092	8,314,593	11,116,165	0
Percent of Total State Sales .....		63	52	66	73	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Mississippi</b>							
<b>Electric Utilities</b> .....	<b>7,114</b>	<b>7,157</b>	<b>9,279</b>	<b>3.0</b>	<b>95.2</b>	<b>94.9</b>	<b>53.7</b>
Coal.....	2,228	2,136	2,231	*	29.8	28.3	12.9
Petroleum.....	31	40	36	1.7	.4	.5	.2
Natural Gas.....	593	665	2,570	17.7	7.9	8.8	14.9
Dual Fired.....	3,119	3,112	3,179	.2	41.7	41.3	18.4
Nuclear.....	1,143	1,204	1,263	1.1	15.3	16.0	7.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>363</b>	<b>383</b>	<b>8,005</b>	<b>41.0</b>	<b>4.9</b>	<b>5.1</b>	<b>46.3</b>
Coal.....	0	0	440	NM	.0	.0	2.5
Petroleum.....	1	1	0	NM	*	*	.0
Natural Gas.....	68	119	7,282	68.1	.9	1.6	42.1
Other Gases.....	0	0	4	NM	.0	.0	*
Other Renewables.....	294	263	279	-6	3.9	3.5	1.6
<b>Total Electric Industry</b> .....							
<b>Coal</b> .....	<b>2,228</b>	<b>2,136</b>	<b>2,671</b>	<b>2.0</b>	<b>29.8</b>	<b>28.3</b>	<b>15.5</b>
<b>Petroleum</b> .....	<b>32</b>	<b>42</b>	<b>36</b>	<b>1.3</b>	<b>.4</b>	<b>.6</b>	<b>.2</b>
<b>Natural Gas</b> .....	<b>660</b>	<b>783</b>	<b>9,850</b>	<b>35.0</b>	<b>8.8</b>	<b>10.4</b>	<b>57.0</b>
<b>Other Gases</b> .....	<b>0</b>	<b>0</b>	<b>4</b>	<b>NM</b>	<b>.0</b>	<b>.0</b>	<b>*</b>
<b>Dual Fired</b> .....	<b>3,119</b>	<b>3,112</b>	<b>3,179</b>	<b>.2</b>	<b>41.7</b>	<b>41.3</b>	<b>18.4</b>
<b>Nuclear</b> .....	<b>1,143</b>	<b>1,204</b>	<b>1,263</b>	<b>1.1</b>	<b>15.3</b>	<b>16.0</b>	<b>7.3</b>
<b>Other Renewables</b> .....	<b>294</b>	<b>263</b>	<b>279</b>	<b>-6</b>	<b>3.9</b>	<b>3.5</b>	<b>1.6</b>

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Mississippi</b>							
<b>Electric Utilities</b> .....	<b>26,222,313</b>	<b>31,991,676</b>	<b>31,358,938</b>	<b>2.0</b>	<b>91.5</b>	<b>93.0</b>	<b>78.1</b>
Coal.....	8,889,624	11,747,963	13,742,273	5.0	31.0	34.1	34.2
Petroleum.....	1,106,209	5,417,924	1,620,395	4.3	3.9	15.7	4.0
Natural Gas.....	6,611,781	5,635,261	5,093,814	-2.9	23.1	16.4	12.7
Nuclear.....	9,614,699	9,190,528	10,902,456	1.4	33.5	26.7	27.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,448,185</b>	<b>2,417,380</b>	<b>8,789,340</b>	<b>15.3</b>	<b>8.5</b>	<b>7.0</b>	<b>21.9</b>
Coal.....	57,350	31,580	3,340,331	57.1	.2	.1	8.3
Petroleum.....	17,946	7,298	11,461	-4.9	.1	*	*
Natural Gas.....	611,603	941,711	4,383,419	24.5	2.1	2.7	10.9
Other Gases.....	0	0	31,799	NM	.0	.0	.1
Other Renewables.....	1,761,286	1,436,791	1,022,331	-5.9	6.1	4.2	2.5
<b>Total Electric Industry</b> .....							
<b>Coal</b> .....	<b>8,946,974</b>	<b>11,779,543</b>	<b>17,082,604</b>	<b>7.5</b>	<b>31.2</b>	<b>34.2</b>	<b>42.5</b>
<b>Petroleum</b> .....	<b>1,124,155</b>	<b>5,425,222</b>	<b>1,631,856</b>	<b>4.2</b>	<b>3.9</b>	<b>15.8</b>	<b>4.1</b>
<b>Natural Gas</b> .....	<b>7,223,384</b>	<b>6,576,972</b>	<b>9,477,233</b>	<b>3.1</b>	<b>25.2</b>	<b>19.1</b>	<b>23.6</b>
<b>Other Gases</b> .....	<b>0</b>	<b>0</b>	<b>31,799</b>	<b>NM</b>	<b>.0</b>	<b>.0</b>	<b>.1</b>
<b>Nuclear</b> .....	<b>9,614,699</b>	<b>9,190,528</b>	<b>10,902,456</b>	<b>1.4</b>	<b>33.5</b>	<b>26.7</b>	<b>27.2</b>
<b>Other Renewables</b> .....	<b>1,761,286</b>	<b>1,436,791</b>	<b>1,022,331</b>	<b>-5.9</b>	<b>6.1</b>	<b>4.2</b>	<b>2.5</b>

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Mississippi</b>				
Coal (cents per million Btu).....	157.1	153.8	W	W
Average heat value (Btu per pound).....	11,312	10,569	9,235	-2.2
Average sulfur Content (percent).....	1.0	.7	.6	-5.9
Petroleum (cents per million Btu).....	164.1	199.2	411.9	10.8
Average heat value (Btu per gallon).....	152,706	157,170	155,337	.2
Average sulfur Content (percent).....	2.4	2.8	2.8	1.8
Natural Gas (cents per million Btu).....	189.8	222.1	556.5	12.7
Average heat value (Btu per cubic foot).....	1,043	1,039	1,036	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Mississippi</b>				
<b>Sulfur Dioxide</b>				
Coal .....	70	68	62	-1.4
Petroleum .....	14	65	12	-1.8
Natural Gas .....	*	*	*	.4
Other.....	16	9	12	-3.2
Total .....	100	143	86	-1.7
<b>Nitrogen Oxide</b>				
Coal .....	35	27	32	-7
Petroleum .....	2	15	6	16.6
Gas.....	14	17	5	-10.6
Other.....	4	3	3	-3.0
Total .....	54	61	47	-1.6
<b>Carbon Dioxide</b>				
Coal .....	8,488	11,446	16,428	7.6
Petroleum .....	901	4,329	1,326	4.4
Gas.....	5,696	5,493	5,673	*
Geothermal.....	—	—	—	NM
Other.....	—	—	1	NM
Total .....	15,085	21,268	23,428	5.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Mississippi</b>							
Retail Sales (thousand megawatthours)							
Residential.....	13,642	16,392	17,670	2.9	37.3	38.6	38.8
Commercial.....	7,094	10,781	12,593	6.6	19.4	25.4	27.6
Industrial.....	15,256	14,599	15,281	*	41.6	34.3	33.5
Other.....	635	738	NA	NM	1.7	1.7	NA
Total.....	36,627	42,510	45,544	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	964	1,152	1,343	3.8	43.5	45.3	45.7
Commercial.....	512	713	913	6.6	23.1	28.0	31.0
Industrial.....	684	616	684	.0	30.9	24.2	23.3
Other.....	55	62	NA	NM	2.5	2.4	NA
Total.....	2,215	2,543	2,940	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	7.06	7.03	7.60	.8	NA	NA	NA
Commercial.....	7.22	6.62	7.25	*	NA	NA	NA
Industrial.....	4.48	4.22	4.48	.0	NA	NA	NA
Other.....	8.60	8.45	NA	NM	NA	NA	NA
Total.....	6.05	5.98	6.46	.7	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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.....	605,653	131,787	7	683,124	NA	NA	NA	1,420,571
Retail Sales (thousand megawatthours).....	22,212	4,192	3,212	15,928	NA	NA	NA	45,544
Percentage of Retail Sales.....	48.77	9.20	7.05	34.97	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,475	265	95	1,106	NA	NA	NA	2,940
Percentage of Revenue.....	50.15	9.01	3.23	37.61	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.64	6.32	2.96	6.94	NA	NA	NA	6.46

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Missouri</b>		
NERC Region(s).....		SPP/MAIN
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	19,976	19
Electric Utilities .....	18,587	13
Independent Power Producers & Combined Heat and Power .....	1,391	36
Net Generation (megawatthours).....	87,225,087	20
Electric Utilities .....	86,102,107	11
Independent Power Producers & Combined Heat and Power .....	1,122,980	43
Emissions (thousand metric tons)		
Sulfur Dioxide.....	258	16
Nitrogen Oxide.....	136	11
Carbon Dioxide.....	75,640	11
Sulfur Dioxide (lbs/MWh).....	6.5	18
Nitrogen Oxide (lbs/MWh).....	3.4	16
Carbon Dioxide (lbs/MWh).....	1,912	13
Total Retail Sales (megawatthours).....	74,239,888	20
Full Service Provider Sales (megawatthours).....	74,239,888	19
Direct Use (megawatthours).....	304,828	41
Average Retail Price (cents/kWh).....	6.02	38

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Missouri</b>			
1. Labadie .....	Petroleum, Coal	Union Electric Co	2,421
2. Rush Island.....	Petroleum, Coal	Union Electric Co	1,194
3. New Madrid.....	Petroleum, Coal	Associated Electric Coop Inc	1,160
4. Callaway .....	Nuclear	Union Electric Co	1,137
5. Thomas Hill.....	Petroleum, Coal	Associated Electric Coop Inc	1,120
6. Hawthorn .....	Gas, Coal	Kansas City Power & Light Co	988
7. Sioux .....	Petroleum, Other, Coal	Union Electric Co	978
8. Meramec .....	Petroleum, Gas, Coal	Union Electric Co	876
9. Iatan .....	Petroleum, Coal	Kansas City Power & Light Co	670
10. Audrain Generating Station.....	Petroleum, Coal	NRG South Central Ops Inc	640

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Missouri</b>						
1. Union Electric Co.....	Investor-Owned	31,901,036	12,354,426	13,508,824	6,037,786	0
2. Kansas City Power & Light Co.....	Investor-Owned	8,256,870	2,448,487	4,156,077	1,652,306	0
3. Aquila Inc .....	Investor-Owned	7,043,933	3,100,495	2,671,130	1,272,308	0
4. Empire District Electric Co.....	Investor-Owned	3,774,381	1,526,076	1,375,511	872,794	0
5. Springfield City of.....	Public	2,813,462	878,728	1,456,169	478,565	0
Total Sales, Top Five Providers.....		53,789,682	20,308,212	23,167,711	10,313,759	0
Percent of Total State Sales .....		72	65	83	70	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Missouri</b>							
<b>Electric Utilities</b> .....	<b>15,488</b>	<b>16,282</b>	<b>18,587</b>	<b>2.0</b>	<b>99.3</b>	<b>99.4</b>	<b>93.0</b>
Coal.....	10,754	10,943	11,172	.4	68.9	66.8	55.9
Petroleum.....	1,035	1,072	1,144	1.1	6.6	6.5	5.7
Natural Gas.....	312	601	1,494	19.0	2.0	3.7	7.5
Dual Fired.....	1,162	1,323	2,427	8.5	7.4	8.1	12.1
Nuclear.....	1,115	1,143	1,137	.2	7.1	7.0	5.7
Hydroelectric.....	543	543	556	.3	3.5	3.3	2.8
Pumped Storage.....	567	657	657	1.6	3.6	4.0	3.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>111</b>	<b>105</b>	<b>1,391</b>	<b>32.4</b>	<b>.7</b>	<b>.6</b>	<b>7.0</b>
Coal.....	96	93	96	.0	.6	.6	.5
Petroleum.....	8	9	11	3.6	.1	.1	.1
Natural Gas.....	3	3	1,261	95.7	*	*	6.3
Dual Fired.....	4	0	23	21.5	*	.0	.1
<b>Total Electric Industry</b> .....	<b>15,599</b>	<b>16,387</b>	<b>19,976</b>	<b>2.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	10,851	11,036	11,267	.4	69.6	67.3	56.4
Petroleum.....	1,043	1,081	1,154	1.1	6.7	6.6	5.8
Natural Gas.....	315	604	2,755	27.2	2.0	3.7	13.8
Dual Fired.....	1,165	1,323	2,450	8.6	7.5	8.1	12.3
Nuclear.....	1,115	1,143	1,137	.2	7.1	7.0	5.7
Hydroelectric.....	543	543	556	.3	3.5	3.3	2.8
Pumped Storage.....	567	657	657	1.6	3.6	4.0	3.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Missouri</b>							
<b>Electric Utilities</b> .....	<b>61,519,090</b>	<b>74,894,188</b>	<b>86,102,107</b>	<b>3.8</b>	<b>99.4</b>	<b>99.6</b>	<b>98.7</b>
Coal.....	48,592,766	62,488,551	73,904,272	4.8	78.5	83.1	84.7
Petroleum.....	730,820	309,734	155,968	-15.8	1.2	.4	.2
Natural Gas.....	338,101	1,232,461	1,820,848	20.6	.5	1.6	2.1
Other Gases.....	0	0	1,652	NM	.0	.0	*
Nuclear.....	10,006,491	8,516,773	9,699,589	-.3	16.2	11.3	11.1
Hydroelectric.....	1,916,293	2,346,585	652,477	-11.3	3.1	3.1	.7
Other Renewables.....	6,776	77,787	121,291	37.8	*	.1	.1
Pumped Storage.....	-72,157	-77,703	-253,991	NM	-1	-1	-3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>358,588</b>	<b>293,158</b>	<b>1,122,980</b>	<b>13.5</b>	<b>.6</b>	<b>.4</b>	<b>1.3</b>
Coal.....	292,853	237,625	307,512	.5	.5	.3	.4
Petroleum.....	14,395	12,087	946	-26.1	*	*	*
Natural Gas.....	51,201	32,349	803,502	35.8	.1	*	.9
Other Renewables.....	139	11,097	11,021	62.6	.0	*	*
<b>Total Electric Industry</b> .....							
<b>Coal</b> .....	<b>48,885,619</b>	<b>62,726,176</b>	<b>74,211,784</b>	<b>4.7</b>	<b>79.0</b>	<b>83.4</b>	<b>85.1</b>
Petroleum.....	745,215	321,821	156,914	-15.9	1.2	.4	.2
Natural Gas.....	389,302	1,264,810	2,624,350	23.6	.6	1.7	3.0
Other Gases.....	0	0	1,652	NM	.0	.0	*
Nuclear.....	10,006,491	8,516,773	9,699,589	-.3	16.2	11.3	11.1
Hydroelectric.....	1,916,293	2,346,585	652,477	-11.3	3.1	3.1	.7
Other Renewables.....	6,915	88,884	132,312	38.8	*	.1	.2
Pumped Storage.....	-72,157	-77,703	-253,991	NM	-1	-1	-3

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Missouri</b>				
Coal (cents per million Btu).....	110.1	91.7	W	W
Average heat value (Btu per pound).....	9,718	8,938	8,865	-1.0
Average sulfur Content (percent).....	1.0	.4	.4	-10.8
Petroleum (cents per million Btu).....	100.8	118.2	W	W
Average heat value (Btu per gallon).....	79,641	89,642	137,769	6.3
Average sulfur Content (percent).....	3.6	4.1	2.4	-4.4
Natural Gas (cents per million Btu).....	189.7	223.4	W	W
Average heat value (Btu per cubic foot).....	1,000	1,011	1,016	.2

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Missouri</b>				
Sulfur Dioxide				
Coal .....	487	259	255	-7.0
Petroleum .....	6	2	2	-12.1
Natural Gas .....	—	*	*	NM
Other .....	—	*	2	NM
Total .....	493	261	258	-6.9
Nitrogen Oxide				
Coal .....	255	194	135	-6.8
Petroleum .....	2	*	*	-25.5
Gas .....	1	2	1	-2.7
Other .....	—	*	*	NM
Total .....	258	197	136	-6.8
Carbon Dioxide				
Coal .....	48,910	64,532	74,182	4.7
Petroleum .....	807	310	155	-16.8
Gas .....	295	914	1,191	16.8
Geothermal .....	—	—	—	NM
Other .....	—	—	112	NM
Total .....	50,011	65,757	75,640	4.7

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Missouri</b>							
Retail Sales (thousand megawatthours)							
Residential .....	24,057	28,265	31,422	3.0	40.3	41.0	42.3
Commercial .....	20,614	23,920	27,987	3.5	34.5	34.7	37.7
Industrial .....	14,106	15,801	14,831	.6	23.6	22.9	20.0
Other .....	916	1,024	NA	NM	1.5	1.5	NA
Total .....	59,693	69,010	74,240	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,754	2,001	2,186	2.5	46.8	47.7	48.9
Commercial .....	1,278	1,432	1,618	2.7	34.1	34.1	36.2
Industrial .....	652	699	667	.3	17.4	16.6	14.9
Other .....	65	64	NA	NM	1.7	1.5	NA
Total .....	3,749	4,197	4,470	2.0	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.29	7.08	6.96	-.5	NA	NA	NA
Commercial .....	6.20	5.99	5.78	-.8	NA	NA	NA
Industrial .....	4.62	4.43	4.49	-.3	NA	NA	NA
Other .....	7.07	6.25	NA	NM	NA	NA	NA
Total .....	6.28	6.08	6.02	-.5	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Missouri</b>								
Number of Entities.....	4	88	NA	44	1	NA	NA	137
Number of Retail Customers.....	1,858,353	394,720	NA	665,489	1	NA	NA	2,918,563
Retail Sales (thousand megawatthours) .....	50,976	10,295	NA	12,949	20	NA	NA	74,240
Percentage of Retail Sales .....	68.66	13.87	NA	17.44	.03	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	3,063	592	NA	814	1	NA	NA	4,470
Percentage of Revenue.....	68.51	13.25	NA	18.22	.02	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.01	5.75	NA	6.29	3.47	NA	NA	6.02

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Montana</b>		
NERC Region(s).....		WECC/MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	5,210	40
Electric Utilities .....	2,273	39
Independent Power Producers & Combined Heat and Power .....	2,937	29
Net Generation (megawatthours).....	26,268,726	41
Electric Utilities .....	6,020,681	41
Independent Power Producers & Combined Heat and Power .....	20,248,045	13
Emissions (thousand metric tons)		
Sulfur Dioxide .....	23	40
Nitrogen Oxide .....	37	36
Carbon Dioxide .....	18,659	38
Sulfur Dioxide (lbs/MWh).....	1.9	40
Nitrogen Oxide (lbs/MWh).....	3.1	20
Carbon Dioxide (lbs/MWh).....	1,566	19
Total Retail Sales (megawatthours).....	12,824,660	41
Full Service Provider Sales (megawatthours).....	10,282,211	45
Deregulated Sales (megawatthours).....	2,542,449	12
Direct Use (megawatthours).....	155,230	45
Average Retail Price (cents/kWh).....	6.14	35

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Montana</b>			
1. Colstrip .....	Gas, Petroleum, Coal	PPL Montana LLC	2,094
2. Libby.....	Hydro	USCE-North Pacific Division	604
3. Noxon Rapids.....	Hydro	Avista Corporation	537
4. Hungry Horse .....	Hydro	U S Bureau of Reclamation	428
5. Yellowtail .....	Hydro	U S Bureau of Reclamation	287
6. Kerr.....	Hydro	PPL Montana LLC	212
7. Fort Peck .....	Hydro	USCE-Missouri River District	204
8. J E Corette Plant .....	Gas, Coal	PPL Montana LLC	154
9. Thompson Falls.....	Hydro	PPL Montana LLC	88
10. Glendive GT .....	Petroleum, Gas	MDU Resources Group Inc	73

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Montana</b>						
1. NorthWestern Energy LLC.....	Investor-Owned	5,152,525	2,087,715	2,694,626	370,184	0
2. PPL EnergyPlus LLC.....	Power Marketer	1,858,138	0	0	1,858,138	0
3. Flathead Electric Coop Inc.....	Cooperative	1,287,770	523,003	377,874	386,893	0
4. Hinson Power Company LLC.....	Power Marketer	642,551	0	0	642,551	0
5. MDU Resources Group Inc.....	Investor-Owned	613,091	155,158	220,028	237,905	0
Total Sales, Top Five Providers.....		9,554,075	2,765,876	3,292,528	3,495,671	0
Percent of Total State Sales.....		75	67	74	82	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Montana</b>							
<b>Electric Utilities</b> .....	<b>4,906</b>	<b>4,944</b>	<b>2,273</b>	<b>-8.2</b>	<b>98.8</b>	<b>97.6</b>	<b>43.6</b>
Coal.....	2,260	2,300	52	-34.2	45.5	45.4	1.0
Petroleum.....	0	5	0	NM	.0	.1	.0
Natural Gas.....	70	0	0	NM	1.4	.0	.0
Dual Fired.....	50	52	97	7.6	1.0	1.0	1.9
Hydroelectric.....	2,514	2,587	2,124	-1.9	50.6	51.1	40.8
Other Renewables.....	12	0	0	NM	.2	.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>60</b>	<b>121</b>	<b>2,937</b>	<b>54.1</b>	<b>1.2</b>	<b>2.4</b>	<b>56.4</b>
Coal.....	39	39	2,248	56.9	.8	.8	43.1
Petroleum.....	0	61	90	NM	.0	1.2	1.7
Hydroelectric.....	11	11	588	55.6	.2	.2	11.3
Other Renewables.....	10	10	11	1.1	.2	.2	.2
<b>Total Electric Industry</b> .....	<b>4,967</b>	<b>5,065</b>	<b>5,210</b>	<b>.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,299	2,339	2,300	*	46.3	46.2	44.1
Petroleum.....	0	66	90	NM	.0	1.3	1.7
Natural Gas.....	70	0	0	NM	1.4	.0	.0
Dual Fired.....	50	52	97	7.6	1.0	1.0	1.9
Hydroelectric.....	2,525	2,598	2,712	.8	50.8	51.3	52.1
Other Renewables.....	23	10	11	-7.9	.5	.2	.2

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Montana</b>							
<b>Electric Utilities</b> .....	<b>24,705,228</b>	<b>27,616,913</b>	<b>6,020,681</b>	<b>-14.5</b>	<b>98.2</b>	<b>97.0</b>	<b>22.9</b>
Coal.....	16,487,675	16,507,968	322,205	-35.4	65.5	58.0	1.2
Petroleum.....	18,421	14,344	1,482	-24.4	.1	*	*
Natural Gas.....	60,784	40,953	17,997	-12.6	.2	.1	.1
Hydroelectric.....	8,096,388	11,053,648	5,678,997	-3.9	32.2	38.8	21.6
Other Renewables.....	41,960	0	0	NM	.2	.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>447,621</b>	<b>843,605</b>	<b>20,248,046</b>	<b>52.7</b>	<b>1.8</b>	<b>3.0</b>	<b>77.1</b>
Coal.....	321,714	276,818	16,726,430	55.1	1.3	1.0	63.7
Petroleum.....	1,701	412,387	400,682	83.5	*	1.4	1.5
Natural Gas.....	12,442	14,823	7,471	-5.5	*	.1	*
Other Gases.....	0	31,136	19,520	NM	.0	.1	.1
Hydroelectric.....	53,119	64,292	3,022,775	56.7	.2	.2	11.5
Other Renewables.....	58,645	44,149	71,168	2.2	.2	.2	.3
<b>Total Electric Industry</b> .....							
<b>25,152,849</b>	<b>28,460,518</b>	<b>26,268,726</b>	<b>.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	16,809,389	16,784,786	17,048,635	.2	66.8	59.0	64.9
Petroleum.....	20,122	426,731	402,164	39.5	.1	1.5	1.5
Natural Gas.....	73,226	55,776	25,468	-11.1	.3	.2	.1
Other Gases.....	0	31,136	19,520	NM	.0	.1	.1
Hydroelectric.....	8,149,507	11,117,940	8,701,772	.7	32.4	39.1	33.1
Other Renewables.....	100,605	44,149	71,168	-3.8	.4	.2	.3

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Montana</b>				
Coal (cents per million Btu).....	69.3	67.4	W	W
Average heat value (Btu per pound).....	8,500	8,433	8,515	*
Average sulfur Content (percent).....	.7	.7	.6	-0.6
Petroleum (cents per million Btu).....	462.9	466.0	W	W
Average heat value (Btu per gallon).....	141,000	141,000	136,574	-4
Average sulfur Content (percent).....	.0	.0	.5	NM
Natural Gas (cents per million Btu).....	114.9	191.8	W	W
Average heat value (Btu per cubic foot).....	1,055	1,072	1,123	.7

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Montana</b>				
Sulfur Dioxide				
Coal .....	19	18	16	-2.1
Petroleum .....	*	24	2	58.5
Natural Gas .....	—	—	—	NM
Other .....	1	2	5	19.8
Total .....	20	44	23	1.4
Nitrogen Oxide				
Coal .....	82	38	33	-9.6
Petroleum .....	*	1	1	62.4
Gas .....	*	*	*	-6.9
Other .....	*	1	3	26.5
Total .....	82	40	37	-8.5
Carbon Dioxide				
Coal .....	17,709	17,735	17,898	.1
Petroleum .....	24	696	703	45.6
Gas .....	93	206	58	-5.1
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	17,825	18,637	18,659	.5

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Montana</b>							
Retail Sales (thousand megawatthours)							
Residential .....	3,567	3,722	4,120	1.6	27.1	26.3	32.1
Commercial .....	3,096	3,313	4,438	4.1	23.5	23.4	34.6
Industrial .....	5,961	6,774	4,267	-3.6	45.2	47.9	33.3
Other .....	561	335	NA	NM	4.3	2.4	NA
Total .....	13,184	14,145	12,825	-3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	213	242	311	4.3	35.9	35.7	39.5
Commercial .....	160	195	304	7.4	26.9	28.8	38.6
Industrial .....	196	221	172	-1.4	33.0	32.6	21.9
Other .....	25	20	NA	NM	4.2	2.9	NA
Total .....	594	678	787	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	5.96	6.50	7.56	2.7	NA	NA	NA
Commercial .....	5.17	5.87	6.85	3.2	NA	NA	NA
Industrial .....	3.30	3.19	4.03	2.3	NA	NA	NA
Other .....	4.49	6.07	NA	NM	NA	NA	NA
Total .....	4.51	4.80	6.14	3.5	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	5	1	3	30	NA	4	1	44
Number of Retail Customers.....	325,008	923	18,652	172,439	NA	1,358	NA	518,380
Retail Sales (thousand megawatthours) .....	6,423	14	572	3,274	NA	2,542	NA	12,825
Percentage of Retail Sales .....	50.08	.11	4.46	25.53	NA	19.82	NA	100.00
Revenue from Retail Sales (million dollars) .....	431	1	24	228	NA	89	14	787
Percentage of Revenue.....	54.77	.10	3.09	28.94	NA	11.33	1.78	100.00
Average Retail Price (cents/kWh).....	6.71	5.59	4.26	6.96	NA	3.51	.55	6.14

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

Other Notes: NA = Not applicable; NM = Not meaningful;  
W = Withheld to avoid disclosure of individual company data;  
\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').  
Totals may not equal sum of components because of independent rounding;  
Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.  
Direct Use is commercial or industrial use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Nebraska</b>		
NERC Region(s).....		WECC/MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	6,685	36
Electric Utilities .....	6,667	29
Independent Power Producers & Combined Heat and Power .....	17	51
Net Generation (megawatthours).....	30,455,984	39
Electric Utilities .....	30,367,879	33
Independent Power Producers & Combined Heat and Power .....	88,105	49
Emissions (thousand metric tons)		
Sulfur Dioxide .....	63	32
Nitrogen Oxide.....	46	33
Carbon Dioxide.....	21,376	36
Sulfur Dioxide (lbs/MWh).....	4.6	25
Nitrogen Oxide (lbs/MWh).....	3.3	18
Carbon Dioxide (lbs/MWh).....	1,547	20
Total Retail Sales (megawatthours).....	25,856,566	36
Full Service Provider Sales (megawatthours).....	25,856,566	36
Direct Use (megawatthours).....	72,037	46
Average Retail Price (cents/kWh).....	5.64	43

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Nebraska</b>			
1. Gerald Gentleman .....	Gas, Coal	Nebraska Public Power District	1,365
2. Cooper .....	Nuclear	Nebraska Public Power District	757
3. North Omaha.....	Gas, Coal	Omaha Public Power District	663
4. Nebraska City.....	Petroleum, Coal	Omaha Public Power District	646
5. Fort Calhoun.....	Nuclear	Omaha Public Power District	476
6. Cass County.....	Gas	Omaha Public Power District	320
7. Sarpy County.....	Petroleum, Gas	Omaha Public Power District	314
8. Rokeby.....	Petroleum, Gas	Lincoln Electric System	265
9. Sheldon.....	Gas, Coal	Nebraska Public Power District	225
10. C W Burdick .....	Petroleum, Gas	Grand Island City of	175

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Nebraska</b>						
1. Omaha Public Power District.....	Public	9,049,537	3,106,036	3,363,801	2,579,700	0
2. Nebraska Public Power District .....	Public	2,950,002	762,258	1,002,678	1,185,066	0
3. Lincoln Electric System .....	Public	2,927,246	1,035,802	1,356,790	534,654	0
4. Loup River Public Power Dist.....	Public	994,731	215,800	186,444	592,487	0
5. Southern Public Power District.....	Public	818,292	224,065	29,254	564,973	0
Total Sales, Top Five Providers.....		16,739,808	5,343,961	5,938,967	5,456,880	0
Percent of Total State Sales .....		65	60	69	65	0

See footnotes at end of tables.



**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Nebraska</b>							
<b>Electric Utilities</b> .....	<b>5,519</b>	<b>5,811</b>	<b>6,667</b>	<b>2.1</b>	<b>99.9</b>	<b>99.7</b>	<b>99.7</b>
Coal.....	3,112	3,169	3,196	.3	56.3	54.4	47.8
Petroleum.....	250	283	297	1.9	4.5	4.9	4.4
Natural Gas.....	11	2	322	45.5	.2	*	4.8
Dual Fired.....	725	945	1,335	7.0	13.1	16.2	20.0
Nuclear.....	1,254	1,245	1,233	-.2	22.7	21.4	18.4
Hydroelectric.....	167	167	268	5.4	3.0	2.9	4.0
Other Renewables.....	0	0	16	NM	.0	.0	.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>8</b>	<b>16</b>	<b>17</b>	<b>8.7</b>	<b>.1</b>	<b>.3</b>	<b>.3</b>
Coal.....	8	7	8	.0	.1	.1	.1
Petroleum.....	0	1	1	NM	.0	*	*
Natural Gas.....	0	1	1	NM	.0	*	*
Dual Fired.....	0	4	2	NM	.0	.1	*
Other Renewables.....	0	3	5	NM	.0	.1	.1
<b>Total Electric Industry</b> .....	<b>5,527</b>	<b>5,828</b>	<b>6,685</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,120	3,176	3,204	.3	56.4	54.5	47.9
Petroleum.....	250	284	298	2.0	4.5	4.9	4.5
Natural Gas.....	11	3	323	45.6	.2	.1	4.8
Dual Fired.....	725	949	1,338	7.0	13.1	16.3	20.0
Nuclear.....	1,254	1,245	1,233	-.2	22.7	21.4	18.4
Hydroelectric.....	167	167	268	5.4	3.0	2.9	4.0
Other Renewables.....	0	4	21	NM	.0	.1	.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Nebraska</b>							
<b>Electric Utilities</b> .....	<b>21,945,525</b>	<b>28,720,209</b>	<b>30,367,879</b>	<b>3.7</b>	<b>99.8</b>	<b>99.7</b>	<b>99.7</b>
Coal.....	14,002,015	18,335,965	20,907,970	4.6	63.7	63.7	68.6
Petroleum.....	18,201	41,892	47,971	11.4	.1	.1	.2
Natural Gas.....	258,764	400,008	369,409	4.0	1.2	1.4	1.2
Other Gases.....	0	0	206	NM	.0	.0	*
Nuclear.....	6,345,330	8,258,803	7,996,902	2.6	28.9	28.7	26.3
Hydroelectric.....	1,311,883	1,682,834	980,110	-3.2	6.0	5.8	3.2
Other Renewables.....	9,332	707	65,311	24.1	*	*	.2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>37,606</b>	<b>76,582</b>	<b>88,105</b>	<b>9.9</b>	<b>.2</b>	<b>.3</b>	<b>.3</b>
Coal.....	37,452	44,506	46,203	2.4	.2	.2	.2
Petroleum.....	0	715	881	NM	.0	*	*
Natural Gas.....	154	14,475	11,669	61.7	*	*	*
Other Renewables.....	0	16,886	29,352	NM	.0	.1	.1
<b>Total Electric Industry</b> .....							
<b>21,983,131</b>	<b>28,796,791</b>	<b>30,455,984</b>	<b>3.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	14,039,467	18,380,471	20,954,173	4.5	63.9	63.8	68.8
Petroleum.....	18,201	42,607	48,852	11.6	.1	.1	.2
Natural Gas.....	258,918	414,483	381,078	4.4	1.2	1.4	1.3
Other Gases.....	0	0	206	NM	.0	.0	*
Nuclear.....	6,345,330	8,258,803	7,996,902	2.6	28.9	28.7	26.3
Hydroelectric.....	1,311,883	1,682,834	980,110	-3.2	6.0	5.8	3.2
Other Renewables.....	9,332	17,593	94,663	29.4	*	.1	.3

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Nebraska</b>				
Coal (cents per million Btu).....	76.5	58.6	59.9	-2.7
Average heat value (Btu per pound).....	8,571	8,584	8,673	.1
Average sulfur Content (percent).....	.3	.3	.3	-1.9
Petroleum (cents per million Btu).....	401.8	333.3	457.2	1.4
Average heat value (Btu per gallon).....	137,641	132,552	138,041	*
Average sulfur Content (percent).....	.1	.4	.1	1.6
Natural Gas (cents per million Btu).....	205.1	242.7	563.6	11.9
Average heat value (Btu per cubic foot).....	987	989	998	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Nebraska</b>				
Sulfur Dioxide				
Coal .....	51	53	63	2.3
Petroleum .....	*	*	*	19.1
Natural Gas .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	51	53	63	2.3
Nitrogen Oxide				
Coal .....	77	44	46	-5.7
Petroleum .....	*	*	*	34.9
Gas .....	*	1	*	-4.0
Other .....	—	*	*	NM
Total .....	78	45	46	-5.6
Carbon Dioxide				
Coal .....	14,878	19,148	21,085	3.9
Petroleum .....	19	41	44	9.8
Gas .....	163	300	248	4.8
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	15,059	19,488	21,376	4.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Nebraska</b>							
Retail Sales (thousand megawatthours)							
Residential .....	7,379	8,160	8,852	2.0	37.1	35.3	34.2
Commercial .....	5,809	6,594	8,583	4.4	29.2	28.5	33.2
Industrial .....	5,345	6,916	8,421	5.2	26.9	29.9	32.6
Other .....	1,340	1,475	NA	NM	6.7	6.4	NA
Total .....	19,873	23,145	25,857	3.0	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	465	527	608	3.0	42.6	42.9	41.7
Commercial .....	324	359	499	4.9	29.7	29.3	34.2
Industrial .....	213	249	352	5.7	19.5	20.3	24.1
Other .....	88	92	NA	NM	8.1	7.5	NA
Total .....	1,091	1,227	1,458	3.3	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	6.31	6.46	6.87	.9	NA	NA	NA
Commercial .....	5.58	5.45	5.81	.4	NA	NA	NA
Industrial .....	3.99	3.60	4.18	.5	NA	NA	NA
Other .....	6.53	6.27	NA	NM	NA	NA	NA
Total .....	5.49	5.30	5.64	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Nebraska</b>								
Number of Entities.....	NA	151	1	10	NA	NA	NA	162
Number of Retail Customers.....	NA	909,089	12	21,721	NA	NA	NA	930,822
Retail Sales (thousand megawatthours) .....	NA	25,062	161	633	NA	NA	NA	25,857
Percentage of Retail Sales .....	NA	96.93	.62	2.45	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	NA	1,408	2	48	NA	NA	NA	1,458
Percentage of Revenue.....	NA	96.56	.15	3.29	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	NA	5.62	1.36	7.59	NA	NA	NA	5.64

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Nevada</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	7,508	35
Electric Utilities .....	5,323	33
Independent Power Producers & Combined Heat and Power .....	2,185	32
Net Generation (megawatthours).....	33,194,888	36
Electric Utilities .....	24,634,871	35
Independent Power Producers & Combined Heat and Power .....	8,560,017	28
Emissions (thousand metric tons)		
Sulfur Dioxide .....	47	35
Nitrogen Oxide .....	40	35
Carbon Dioxide .....	22,982	35
Sulfur Dioxide (lbs/MWh).....	3.1	38
Nitrogen Oxide (lbs/MWh).....	2.7	25
Carbon Dioxide (lbs/MWh).....	1,526	21
Total Retail Sales (megawatthours).....	30,131,660	34
Full Service Provider Sales (megawatthours).....	30,131,660	34
Direct Use (megawatthours).....	232,260	42
Average Retail Price (cents/kWh).....	8.29	12

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Nevada</b>			
1. Mohave .....	Gas, Coal	Southern California Edison Co	1,580
2. Hoover Dam .....	Hydro	U S Bureau of Reclamation	1,039
3. Clark .....	Gas	Nevada Power Co	700
4. Reid Gardner .....	Petroleum, Coal	Nevada Power Co	555
5. North Valmy.....	Petroleum, Coal	Sierra Pacific Power Co	522
6. Apex Generating Station.....	Gas	Mirant Las Vegas LLC	494
7. El Dorado Energy .....	Gas	El Dorado Energy LLC	450
8. Tracy .....	Petroleum, Gas	Sierra Pacific Power Co	434
9. Tri Center Naniwa Energy.....	Gas	Naniwa Energy LLC	300
10. Fort Churchill .....	Petroleum, Gas	Sierra Pacific Power Co	226

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Nevada</b>						
1. Nevada Power Co.....	Investor-Owned	18,371,324	7,765,112	3,956,785	6,649,427	0
2. Sierra Pacific Power Co .....	Investor-Owned	8,386,222	1,953,357	2,757,897	3,674,968	0
3. Colorado River Comm of Nevada .....	Public	1,452,956	0	743,406	709,550	0
4. Wells Rural Electric Co .....	Cooperative	596,986	43,289	44,283	509,414	0
5. Valley Electric Assn, Inc .....	Cooperative	363,031	218,685	144,346	0	0
Total Sales, Top Five Providers.....		29,170,519	9,980,443	7,646,717	11,543,359	0
Percent of Total State Sales .....		97	97	94	99	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Nevada</b>							
<b>Electric Utilities</b> .....	<b>5,478</b>	<b>5,642</b>	<b>5,323</b>	<b>-0.3</b>	<b>88.1</b>	<b>88.3</b>	<b>70.9</b>
Coal.....	2,717	2,806	2,657	-2	43.7	43.9	35.4
Petroleum.....	48	45	45	-7	.8	.7	.6
Natural Gas.....	292	502	190	-4.7	4.7	7.9	2.5
Dual Fired.....	1,375	1,243	1,386	.1	22.1	19.5	18.5
Hydroelectric.....	1,046	1,046	1,045	*	16.8	16.4	13.9
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>739</b>	<b>747</b>	<b>2,185</b>	<b>12.8</b>	<b>11.9</b>	<b>11.7</b>	<b>29.1</b>
Natural Gas.....	127	337	1,785	34.1	2.0	5.3	23.8
Dual Fired.....	383	178	222	-5.9	6.2	2.8	3.0
Hydroelectric.....	4	4	6	4.6	.1	.1	.1
Other Renewables.....	225	228	172	-2.9	3.6	3.6	2.3
<b>Total Electric Industry</b> .....	<b>6,217</b>	<b>6,389</b>	<b>7,508</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,717	2,806	2,657	-2	43.7	43.9	35.4
Petroleum.....	48	45	45	-7	.8	.7	.6
Natural Gas.....	419	839	1,975	18.8	6.7	13.1	26.3
Dual Fired.....	1,758	1,421	1,608	-1.0	28.3	22.2	21.4
Hydroelectric.....	1,050	1,050	1,051	*	16.9	16.4	14.0
Other Renewables.....	225	228	172	-2.9	3.6	3.6	2.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Nevada</b>							
<b>Electric Utilities</b> .....	<b>20,519,076</b>	<b>26,552,567</b>	<b>24,634,871</b>	<b>2.1</b>	<b>83.7</b>	<b>86.7</b>	<b>74.2</b>
Coal.....	15,324,714	17,161,341	17,085,959	1.2	62.5	56.1	51.5
Petroleum.....	166,446	50,285	16,793	-22.5	.7	.2	.1
Natural Gas.....	3,162,156	6,189,526	5,784,181	6.9	12.9	20.2	17.4
Hydroelectric.....	1,865,760	3,151,415	1,747,938	-7	7.6	10.3	5.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,998,651</b>	<b>4,060,953</b>	<b>8,560,017</b>	<b>8.8</b>	<b>16.3</b>	<b>13.3</b>	<b>25.8</b>
Petroleum.....	1,234	1,247	0	NM	*	*	.0
Natural Gas.....	2,467,470	2,501,303	7,468,598	13.1	10.1	8.2	22.5
Other Gases.....	0	0	16,941	NM	.0	.0	.1
Hydroelectric.....	10,129	14,910	8,767	-1.6	*	*	*
Other Renewables.....	1,494,930	1,537,094	1,065,711	-3.7	6.1	5.0	3.2
Other.....	24,888	6,399	0	NM	.1	*	.0
<b>Total Electric Industry</b> .....	<b>24,517,727</b>	<b>30,613,520</b>	<b>33,194,888</b>	<b>3.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	15,324,714	17,161,341	17,085,959	1.2	62.5	56.1	51.5
Petroleum.....	167,680	51,532	16,793	-22.6	.7	.2	.1
Natural Gas.....	5,629,626	8,690,829	13,252,779	10.0	23.0	28.4	39.9
Other Gases.....	0	0	16,941	NM	.0	.0	.1
Hydroelectric.....	1,875,889	3,166,325	1,756,705	-7	7.7	10.3	5.3
Other Renewables.....	1,494,930	1,537,094	1,065,711	-3.7	6.1	5.0	3.2
Other.....	24,888	6,399	0	NM	.1	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Nevada</b>				
Coal (cents per million Btu).....	143.3	129.8	141.7	-0.1
Average heat value (Btu per pound).....	11,291	11,199	11,120	-.2
Average sulfur Content (percent).....	.5	.5	.5	.1
Petroleum (cents per million Btu).....	328.7	379.6	600.7	6.9
Average heat value (Btu per gallon).....	148,197	138,848	138,548	-.7
Average sulfur Content (percent).....	.7	.3	.3	-10.5
Natural Gas (cents per million Btu).....	192.4	230.2	510.6	11.5
Average heat value (Btu per cubic foot).....	1,033	1,034	1,039	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Nevada</b>				
<b>Sulfur Dioxide</b>				
Coal.....	48	43	47	-0.3
Petroleum.....	1	*	*	-30.7
Natural Gas.....	*	*	*	6.7
Other.....	—	—	—	NM
Total.....	48	43	47	-.4
<b>Nitrogen Oxide</b>				
Coal.....	72	38	34	-8.0
Petroleum.....	*	*	*	-24.9
Gas.....	5	8	6	2.6
Other.....	*	*	—	NM
Total.....	77	47	40	-7.0
<b>Carbon Dioxide</b>				
Coal.....	16,403	16,685	16,675	.2
Petroleum.....	138	48	15	-22.1
Gas.....	2,998	4,581	6,266	8.5
Geothermal.....	38	39	27	-3.8
Other.....	—	—	—	NM
Total.....	19,577	21,353	22,982	1.8

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Nevada</b>							
Retail Sales (thousand megawatthours)							
Residential.....	6,845	7,975	10,340	4.7	34.2	31.8	34.3
Commercial.....	4,612	5,655	8,168	6.6	23.0	22.6	27.1
Industrial.....	7,775	10,518	11,624	4.6	38.8	42.0	38.6
Other.....	805	889	NA	NM	4.0	3.5	NA
Total.....	20,036	25,037	30,132	4.6	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	490	558	932	7.4	38.4	38.7	37.3
Commercial.....	322	368	718	9.3	25.2	25.5	28.7
Industrial.....	423	480	849	8.0	33.1	33.3	34.0
Other.....	42	36	NA	NM	3.3	2.5	NA
Total.....	1,277	1,442	2,499	7.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	7.16	7.00	9.02	2.6	NA	NA	NA
Commercial.....	6.97	6.50	8.79	2.6	NA	NA	NA
Industrial.....	5.45	4.57	7.30	3.3	NA	NA	NA
Other.....	5.19	4.02	NA	NM	NA	NA	NA
Total.....	6.37	5.76	8.29	3.0	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Nevada</b>								
Number of Entities.....	2	8	1	8	NA	NA	NA	19
Number of Retail Customers.....	964,923	24,358	2	29,792	NA	NA	NA	1,019,075
Retail Sales (thousand megawatthours).....	26,758	2,057	32	1,286	NA	NA	NA	30,132
Percentage of Retail Sales.....	88.80	6.83	.11	4.27	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	2,309	114	*	76	NA	NA	NA	2,499
Percentage of Revenue.....	92.40	4.55	*	3.04	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	8.63	5.53	.32	5.91	NA	NA	NA	8.29

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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



**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>New Hampshire</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	4,244	43
Electric Utilities .....	1,121	43
Independent Power Producers & Combined Heat and Power .....	3,124	28
Net Generation (megawatthours).....	21,597,107	42
Electric Utilities .....	6,231,573	40
Independent Power Producers & Combined Heat and Power .....	15,365,534	16
Emissions (thousand metric tons)		
Sulfur Dioxide .....	52	33
Nitrogen Oxide .....	10	46
Carbon Dioxide .....	7,600	44
Sulfur Dioxide (lbs/MWh).....	5.3	20
Nitrogen Oxide (lbs/MWh).....	1.1	44
Carbon Dioxide (lbs/MWh).....	776	44
Total Retail Sales (megawatthours).....	10,972,542	44
Full Service Provider Sales (megawatthours).....	10,824,276	41
Deregulated Sales (megawatthours).....	148,266	17
Direct Use (megawatthours).....	455,577	37
Average Retail Price (cents/kWh).....	10.83	5

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>New Hampshire</b>			
1. Seabrook .....	Nuclear	FPL Energy Seabrook LLC	1,159
2. AES Granite Ridge .....	Gas	AES Granite Ridge	797
3. Newington Power Facility .....	Petroleum, Gas	Newington Energy LLC	525
4. Merrimack .....	Petroleum, Coal	Public Service Co of NH	466
5. Newington .....	Petroleum	Public Service Co of NH	400
6. S C Moore .....	Hydro	U S Gen New England Inc	184
7. Comerford.....	Hydro	U S Gen New England Inc	161
8. Schiller.....	Gas, Petroleum, Coal	Public Service Co of NH	160
9. Berlin Gorham.....	Hydro	Great Lakes Hydro America LLC	29
10. Pinetree Power Tamworth.....	Other	Pinetree Power Tamworth Inc	20

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>New Hampshire</b>						
1. Public Service Co of NH .....	Investor-Owned	7,751,049	2,943,769	3,123,495	1,683,785	0
2. Unitil Energy Systems.....	Investor-Owned	1,211,068	476,221	415,330	319,517	0
3. Granite State Electric Co.....	Investor-Owned	718,703	283,141	368,368	67,194	0
4. New Hampshire Elec Coop Inc .....	Cooperative	690,094	426,274	218,734	45,086	0
5. Connecticut Valley Elec Co Inc .....	Investor-Owned	155,263	59,615	75,392	20,256	0
Total Sales, Top Five Providers.....		10,526,177	4,189,020	4,201,319	2,135,838	0
Percent of Total State Sales .....		96	99	97	89	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Hampshire</b>							
<b>Electric Utilities</b> .....	<b>2,500</b>	<b>2,292</b>	<b>1,121</b>	<b>-8.5</b>	<b>90.8</b>	<b>80.5</b>	<b>26.4</b>
Coal.....	578	578	575	-1	21.0	20.3	13.5
Petroleum.....	66	64	64	-3	2.4	2.2	1.5
Dual Fired.....	423	424	417	-2	15.4	14.9	9.8
Nuclear .....	1,150	1,162	0	NM	41.8	40.8	.0
Hydroelectric .....	283	64	65	-15.1	10.3	2.2	1.5
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>252</b>	<b>555</b>	<b>3,124</b>	<b>32.3</b>	<b>9.2</b>	<b>19.5</b>	<b>73.6</b>
Petroleum.....	29	35	32	1.1	1.1	1.2	.8
Natural Gas.....	0	0	291	NM	.0	.0	6.9
Dual Fired.....	4	10	1,064	86.0	.1	.4	25.1
Nuclear .....	0	0	1,159	NM	.0	.0	27.3
Hydroelectric .....	89	380	447	19.6	3.2	13.3	10.5
Other Renewables .....	130	130	131	.1	4.7	4.6	3.1
<b>Total Electric Industry</b> .....	<b>2,753</b>	<b>2,848</b>	<b>4,244</b>	<b>4.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	578	578	575	-1	21.0	20.3	13.5
Petroleum.....	96	100	96	.0	3.5	3.5	2.3
Natural Gas.....	0	0	291	NM	.0	.0	6.9
Dual Fired.....	427	434	1,481	14.8	15.5	15.2	34.9
Nuclear .....	1,150	1,162	1,159	.1	41.8	40.8	27.3
Hydroelectric .....	372	444	511	3.6	13.5	15.6	12.0
Other Renewables .....	130	130	131	.1	4.7	4.6	3.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Hampshire</b>							
<b>Electric Utilities</b> .....	<b>11,888,117</b>	<b>14,237,580</b>	<b>6,231,573</b>	<b>-6.9</b>	<b>88.3</b>	<b>88.5</b>	<b>28.9</b>
Coal.....	3,181,654	3,513,065	3,923,303	2.4	23.6	21.8	18.2
Petroleum.....	1,352,611	1,352,598	1,976,692	4.3	10.0	8.4	9.2
Natural Gas.....	114,587	9,837	87	-55.0	.9	.1	.0
Nuclear.....	6,203,747	8,387,023	0	NM	46.1	52.1	.0
Hydroelectric.....	1,035,518	975,057	331,491	-11.9	7.7	6.1	1.5
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>1,574,382</b>	<b>1,851,273</b>	<b>15,365,534</b>	<b>28.8</b>	<b>11.7</b>	<b>11.5</b>	<b>71.1</b>
Petroleum.....	67,967	101,256	67,834	*	.5	.6	.3
Natural Gas.....	0	13,472	4,165,378	NM	.0	.1	19.3
Nuclear.....	0	0	9,276,288	NM	.0	.0	43.0
Hydroelectric.....	425,809	621,691	999,778	9.9	3.2	3.9	4.6
Other Renewables.....	1,080,606	1,114,854	856,256	-2.6	8.0	6.9	4.0
<b>Total Electric Industry</b> .....	<b>13,462,499</b>	<b>16,088,853</b>	<b>21,597,107</b>	<b>5.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,181,654	3,513,065	3,923,303	2.4	23.6	21.8	18.2
Petroleum.....	1,420,578	1,453,854	2,044,526	4.1	10.6	9.0	9.5
Natural Gas.....	114,587	23,309	4,165,465	49.1	.9	.1	19.3
Nuclear.....	6,203,747	8,387,023	9,276,288	4.6	46.1	52.1	43.0
Hydroelectric.....	1,461,327	1,596,748	1,331,269	-1.0	10.9	9.9	6.2
Other Renewables.....	1,080,606	1,114,854	856,256	-2.6	8.0	6.9	4.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New Hampshire</b>				
Coal (cents per million Btu).....	152.2	161.2	170.3	1.3
Average heat value (Btu per pound).....	13,032	13,133	13,262	.2
Average sulfur Content (percent).....	1.5	1.4	1.1	-3.6
Petroleum (cents per million Btu).....	199.5	187.2	W	W
Average heat value (Btu per gallon).....	153,466	151,852	152,724	-.1
Average sulfur Content (percent).....	1.5	1.5	1.5	.1
Natural Gas (cents per million Btu).....	209.7	.0	W	W
Average heat value (Btu per cubic foot).....	1,015	0	1,047	.3

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New Hampshire</b>				
Sulfur Dioxide				
Coal .....	34	35	30	-1.2
Petroleum .....	11	15	21	6.7
Natural Gas .....	—	—	*	NM
Other .....	*	*	1	33.7
Total .....	46	50	52	1.5
Nitrogen Oxide				
Coal .....	17	11	5	-12.2
Petroleum .....	2	3	3	6.8
Gas .....	*	*	1	17.3
Other .....	1	2	1	1.8
Total .....	20	15	10	-6.9
Carbon Dioxide				
Coal .....	3,088	3,561	3,838	2.4
Petroleum .....	1,329	1,477	1,815	3.5
Gas .....	68	15	1,838	44.2
Geothermal .....	—	—	—	NM
Other .....	29	26	109	15.6
Total .....	4,515	5,081	7,600	6.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Hampshire</b>							
Retail Sales (thousand megawatthours)							
Residential .....	3,431	3,401	4,252	2.4	38.3	36.6	38.8
Commercial .....	3,221	3,351	4,318	3.3	36.0	36.0	39.3
Industrial .....	2,182	2,425	2,403	1.1	24.4	26.1	21.9
Other .....	122	127	NA	NM	1.4	1.4	NA
Total .....	8,956	9,303	10,973	2.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	443	473	509	1.6	43.7	42.7	42.8
Commercial .....	351	389	445	2.7	34.6	35.1	37.5
Industrial .....	203	228	234	1.6	20.0	20.6	19.7
Other .....	16	17	NA	NM	1.6	1.5	NA
Total .....	1,014	1,107	1,188	1.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	12.91	13.92	11.98	-.8	NA	NA	NA
Commercial .....	10.91	11.64	10.30	-.6	NA	NA	NA
Industrial .....	9.32	9.42	9.75	.5	NA	NA	NA
Other .....	13.36	13.76	NA	NM	NA	NA	NA
Total .....	11.32	11.93	10.83	-.5	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>New Hampshire</b>								
Number of Entities.....	4	5	NA	1	4	4	2	20
Number of Retail Customers.....	576,788	11,147	NA	73,727	5	106	NA	661,773
Retail Sales (thousand megawatthours) .....	9,803	175	NA	690	156	148	NA	10,973
Percentage of Retail Sales .....	89.34	1.60	NA	6.29	1.42	1.35	NA	100.00
Revenue from Retail Sales (million dollars) .....	1,048	16	NA	92	21	7	4	1,188
Percentage of Revenue.....	88.23	1.33	NA	7.78	1.79	.57	.30	100.00
Average Retail Price (cents/kWh).....	10.70	8.99	NA	13.40	13.59	4.55	2.44	10.83

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

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Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>New Jersey</b>		
NERC Region(s).....		MAAC
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	18,647	21
Electric Utilities .....	1,244	42
Independent Power Producers & Combined Heat and Power .....	17,401	6
Net Generation (megawatthours).....	57,399,351	24
Electric Utilities .....	1,910,115	44
Independent Power Producers & Combined Heat and Power .....	55,489,236	6
Emissions (thousand metric tons)		
Sulfur Dioxide .....	49	34
Nitrogen Oxide.....	32	38
Carbon Dioxide.....	20,194	37
Sulfur Dioxide (lbs/MWh).....	1.9	42
Nitrogen Oxide (lbs/MWh).....	1.2	43
Carbon Dioxide (lbs/MWh).....	776	45
Total Retail Sales (megawatthours).....	76,382,512	19
Full Service Provider Sales (megawatthours).....	69,668,164	20
Deregulated Sales (megawatthours).....	6,714,348	10
Direct Use (megawatthours).....	2,404,390	19
Average Retail Price (cents/kWh).....	9.48	11

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>New Jersey</b>			
1. PSEG Salem Generating Station .....	Other, Nuclear	PSEG Nuclear LLC	2,278
2. Bergen.....	Other, Gas	PSEG Fossil LLC	1,242
3. PSEG Hope Creek Generating Station.....	Nuclear	PSEG Nuclear LLC	1,049
4. PSEG Hudson Generating Station.....	Gas, Petroleum, Coal	PSEG Fossil LLC	991
5. Linden Cogen Plant.....	Petroleum, Other, Gas	Cogen Technologies Linden Vent	900
6. PSEG Burlington Generating Station.....	Other, Gas	PSEG Fossil LLC	802
7. AES Red Oak LLC.....	Gas	AES Red Oak LLC	792
8. PSEG Mercer Generating Station.....	Other, Gas, Coal	PSEG Fossil LLC	777
9. PSEG Linden Generating Station.....	Other, Gas	PSEG Fossil LLC	775
10. PSEG Kearny Generating Station.....	Petroleum, Other, Gas	PSEG Fossil LLC	764

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>New Jersey</b>						
1. Public Service Elec & Gas Co.....	Investor-Owned	38,766,006	12,792,377	20,680,408	5,157,335	135,886
2. Jersey Central Power&Light Co.....	Investor-Owned	18,786,247	8,681,223	7,904,461	2,200,563	0
3. Atlantic City Electric Co.....	Investor-Owned	8,559,693	4,207,502	3,663,024	689,167	0
4. WPS Energy Services.....	Power Marketer	1,658,580	0	0	1,658,580	0
5. Rockland Electric Co.....	Investor-Owned	1,513,906	703,616	754,116	56,174	0
Total Sales, Top Five Providers.....		69,284,432	26,384,718	33,002,009	9,761,819	135,886
Percent of Total State Sales.....		91	96	90	80	74

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Jersey</b>							
<b>Electric Utilities.....</b>	<b>13,500</b>	<b>13,390</b>	<b>1,244</b>	<b>-23.3</b>	<b>81.5</b>	<b>80.6</b>	<b>6.7</b>
Coal.....	1,634	1,658	387	-14.8	9.9	10.0	2.1
Petroleum.....	2,827	2,490	286	-22.5	17.1	15.0	1.5
Natural Gas.....	2,763	1,904	0	NM	16.7	11.5	.0
Dual Fired.....	2,034	3,076	171	-24.1	12.3	18.5	.9
Nuclear.....	3,862	3,862	0	NM	23.3	23.2	.0
Pumped Storage.....	380	400	400	.6	2.3	2.4	2.1
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,056</b>	<b>3,232</b>	<b>17,401</b>	<b>21.3</b>	<b>18.5</b>	<b>19.4</b>	<b>93.3</b>
Coal.....	483	483	1,737	15.3	2.9	2.9	9.3
Petroleum.....	1	23	1,867	130.9	*	.1	10.0
Natural Gas.....	316	667	2,871	27.8	1.9	4.0	15.4
Other Gases.....	0	22	21	NM	.0	.1	.1
Dual Fired.....	2,074	1,833	6,783	14.1	12.5	11.0	36.4
Nuclear.....	0	0	3,908	NM	.0	.0	21.0
Hydroelectric.....	13	13	14	.8	.1	.1	.1
Other Renewables.....	169	187	200	1.9	1.0	1.1	1.1
Other.....	0	4	0	NM	.0	*	.0
<b>Total Electric Industry.....</b>	<b>16,556</b>	<b>16,622</b>	<b>18,647</b>	<b>1.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,117	2,141	2,124	*	12.8	12.9	11.4
Petroleum.....	2,828	2,513	2,153	-3.0	17.1	15.1	11.5
Natural Gas.....	3,079	2,571	2,872	-8	18.6	15.5	15.4
Other Gases.....	0	22	21	NM	.0	.1	.1
Dual Fired.....	4,108	4,909	6,955	6.0	24.8	29.5	37.3
Nuclear.....	3,862	3,862	3,908	.1	23.3	23.2	21.0
Hydroelectric.....	13	13	14	.8	.1	.1	.1
Other Renewables.....	169	187	200	1.9	1.0	1.1	1.1
Pumped Storage.....	380	400	400	.6	2.3	2.4	2.1
Other.....	0	4	0	NM	.0	*	.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Jersey</b>							
<b>Electric Utilities</b> .....	<b>31,931,596</b>	<b>35,911,086</b>	<b>1,910,115</b>	<b>-26.9</b>	<b>65.9</b>	<b>66.7</b>	<b>3.3</b>
Coal.....	4,646,622	5,586,357	1,792,734	-10.0	9.6	10.4	3.1
Petroleum.....	1,656,066	484,998	209,017	-20.5	3.4	.9	.4
Natural Gas.....	3,666,307	2,853,825	28,246	-41.8	7.6	5.3	*
Nuclear.....	22,129,335	27,132,139	0	NM	45.7	50.4	.0
Pumped Storage.....	-166,734	-146,233	-119,882	NM	-3	-3	-2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>16,503,746</b>	<b>17,946,547</b>	<b>55,489,236</b>	<b>14.4</b>	<b>34.1</b>	<b>33.3</b>	<b>96.7</b>
Coal.....	1,025,589	2,058,869	7,996,829	25.6	2.1	3.8	13.9
Petroleum.....	700,662	244,875	1,332,535	7.4	1.4	.5	2.3
Natural Gas.....	13,525,521	13,627,001	14,747,331	1.0	27.9	25.3	25.7
Other Gases.....	101,509	659,128	255,374	10.8	.2	1.2	.4
Nuclear.....	0	0	29,709,201	NM	.0	.0	51.8
Hydroelectric.....	15,083	20,670	38,891	11.1	*	*	.1
Other Renewables.....	1,135,382	1,310,817	1,398,532	2.3	2.3	2.4	2.4
Other.....	0	25,187	10,543	NM	.0	*	*
<b>Total Electric Industry</b> .....	<b>48,435,342</b>	<b>53,857,633</b>	<b>57,399,351</b>	<b>1.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,672,211	7,645,226	9,789,563	6.3	11.7	14.2	17.1
Petroleum.....	2,356,728	729,873	1,541,552	-4.6	4.9	1.4	2.7
Natural Gas.....	17,191,828	16,480,826	14,775,577	-1.7	35.5	30.6	25.7
Other Gases.....	101,509	659,128	255,374	10.8	.2	1.2	.4
Nuclear.....	22,129,335	27,132,139	29,709,201	3.3	45.7	50.4	51.8
Hydroelectric.....	15,083	20,670	38,891	11.1	*	*	.1
Other Renewables.....	1,135,382	1,310,817	1,398,532	2.3	2.3	2.4	2.4
Pumped Storage.....	-166,734	-146,233	-119,882	NM	-3	-3	-2
Other.....	0	25,187	10,543	NM	.0	*	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New Jersey</b>				
Coal (cents per million Btu).....	181.7	159.0	179.6	-0.1
Average heat value (Btu per pound).....	13,341	13,113	13,056	-2
Average sulfur Content (percent).....	1.3	1.1	1.1	-1.6
Petroleum (cents per million Btu).....	290.2	242.2	604.0	8.5
Average heat value (Btu per gallon).....	148,378	148,656	139,250	-7
Average sulfur Content (percent).....	.4	.4	.2	-9.4
Natural Gas (cents per million Btu).....	209.6	262.0	619.6	12.8
Average heat value (Btu per cubic foot).....	1,035	1,045	1,036	*

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New Jersey</b>				
Sulfur Dioxide				
Coal .....	46	40	46	0.1
Petroleum .....	5	3	3	-7.1
Natural Gas .....	*	*	*	-9.5
Other .....	*	*	*	-5.3
Total .....	51	43	49	-5
Nitrogen Oxide				
Coal .....	25	30	22	-1.5
Petroleum .....	3	1	1	-7.9
Gas .....	14	16	4	-12.7
Other .....	3	3	4	6.1
Total .....	45	50	32	-3.7
Carbon Dioxide				
Coal .....	5,840	7,967	9,837	6.0
Petroleum .....	2,167	756	1,475	-4.2
Gas .....	9,733	9,207	8,170	-1.9
Geothermal .....	—	—	—	NM
Other .....	231	243	712	13.3
Total .....	17,971	18,173	20,194	1.3

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Jersey</b>							
Retail Sales (thousand megawatthours)							
Residential .....	22,154	23,191	27,367	2.4	33.4	34.0	35.8
Commercial .....	29,358	31,127	36,616	2.5	44.3	45.7	47.9
Industrial .....	14,251	13,339	12,215	-1.7	21.5	19.6	16.0
Other .....	495	504	NA	NM	.8	.7	NA
Transportation .....	NA	NA	184	NM	NA	NA	.2
Total .....	66,258	68,162	76,383	1.6	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	2,556	2,642	2,921	1.5	38.3	38.1	40.3
Commercial .....	2,889	3,141	3,335	1.6	43.3	45.3	46.0
Industrial .....	1,132	1,059	976	-1.6	17.0	15.3	13.5
Other .....	88	90	NA	NM	1.3	1.3	NA
Transportation .....	NA	NA	13	NM	NA	NA	.2
Total .....	6,665	6,932	7,245	.9	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	11.54	11.39	10.67	-9	NA	NA	NA
Commercial .....	9.84	10.09	9.11	-8	NA	NA	NA
Industrial .....	7.94	7.94	7.99	.1	NA	NA	NA
Other .....	17.70	17.92	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.15	NM	NA	NA	NA
Total .....	10.06	10.17	9.48	-7	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>New Jersey</b>								
Number of Entities.....	4	9	NA	1	6	12	5	37
Number of Retail Customers.....	3,624,915	56,447	NA	11,267	7	45,061	NA	3,737,697
Retail Sales (thousand megawatthours) .....	67,419	996	NA	143	1,110	6,714	NA	76,383
Percentage of Retail Sales .....	88.27	1.30	NA	.19	1.45	8.79	NA	100.00
Revenue from Retail Sales (million dollars) .....	6,461	102	NA	16	78	354	233	7,245
Percentage of Revenue.....	89.19	1.41	NA	.22	1.08	4.88	3.22	100.00
Average Retail Price (cents/kWh).....	9.58	10.25	NA	10.96	7.04	5.27	3.48	9.48

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>New Mexico</b>		
NERC Region(s).....		SPP/WSCC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	6,289	38
Electric Utilities .....	5,398	32
Independent Power Producers & Combined Heat and Power .....	892	40
Net Generation (megawatthours).....	32,735,653	37
Electric Utilities .....	31,770,151	30
Independent Power Producers & Combined Heat and Power .....	965,502	44
Emissions (thousand metric tons)		
Sulfur Dioxide .....	46	36
Nitrogen Oxide .....	71	27
Carbon Dioxide .....	31,158	31
Sulfur Dioxide (lbs/MWh).....	3.1	37
Nitrogen Oxide (lbs/MWh).....	4.8	4
Carbon Dioxide (lbs/MWh).....	2,098	5
Total Retail Sales (megawatthours).....	19,330,491	39
Full Service Provider Sales (megawatthours).....	19,330,491	39
Direct Use (megawatthours).....	445,381	38
Average Retail Price (cents/kWh).....	7.00	18

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>New Mexico</b>			
1. Four Corners.....	Gas, Coal	Arizona Public Service Co	2,040
2. San Juan.....	Petroleum, Coal	Public Service Co of NM	1,643
3. Cunningham.....	Gas	Southwestern Public Service Co	487
4. Escalante.....	Gas, Coal	Tri-State G & T Assn Inc	247
5. Rio Grande .....	Petroleum, Gas	El Paso Electric Co	231
6. New Mexico Wind Energy Center.....	Other	FPL Energy New Mexico Wind LLC	204
7. Maddox.....	Gas	Southwestern Public Service Co	193
8. Pyramid.....	Gas	Tri-State G & T Assn Inc	158
9. Reeves.....	Gas	Public Service Co of NM	154
10. Afton Generating Station .....	Gas	Public Service Co of NM	141

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>New Mexico</b>						
1. Public Service Co of NM.....	Investor-Owned	7,352,711	2,397,946	3,607,825	1,346,940	0
2. Southwestern Public Service Co.....	Investor-Owned	3,413,502	864,732	1,376,379	1,172,391	0
3. El Paso Electric Co .....	Investor-Owned	1,407,577	492,939	817,580	97,058	0
4. Farmington City of.....	Public	1,064,317	216,921	361,628	485,768	0
5. Texas-New Mexico Power Co.....	Investor-Owned	965,727	240,977	258,850	465,900	0
Total Sales, Top Five Providers.....		14,203,834	4,213,515	6,422,262	3,568,057	0
Percent of Total State Sales .....		73	78	80	61	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Mexico</b>							
<b>Electric Utilities</b> .....	<b>5,078</b>	<b>5,294</b>	<b>5,398</b>	<b>0.7</b>	<b>96.5</b>	<b>95.7</b>	<b>85.8</b>
Coal.....	3,901	3,913	3,942	.1	74.1	70.7	62.7
Petroleum.....	24	15	35	4.3	.5	.3	.6
Natural Gas.....	588	974	905	4.9	11.2	17.6	14.4
Dual Fired.....	507	311	434	-1.7	9.6	5.6	6.9
Hydroelectric.....	58	81	82	3.9	1.1	1.5	1.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>184</b>	<b>238</b>	<b>892</b>	<b>19.2</b>	<b>3.5</b>	<b>4.3</b>	<b>14.2</b>
Petroleum.....	26	66	10	-10.1	.5	1.2	.2
Natural Gas.....	52	170	347	23.5	1.0	3.1	5.5
Dual Fired.....	104	0	325	13.5	2.0	.0	5.2
Other Renewables.....	2	2	210	67.7	*	*	3.3
<b>Total Electric Industry</b> .....	<b>5,261</b>	<b>5,531</b>	<b>6,289</b>	<b>2.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,901	3,913	3,942	.1	74.1	70.7	62.7
Petroleum.....	49	81	45	-9	.9	1.5	.7
Natural Gas.....	640	1,143	1,251	7.7	12.2	20.7	19.9
Dual Fired.....	611	311	759	2.4	11.6	5.6	12.1
Hydroelectric.....	58	81	82	3.9	1.1	1.5	1.3
Other Renewables.....	2	2	210	67.7	*	*	3.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Mexico</b>							
<b>Electric Utilities</b> .....	<b>30,018,011</b>	<b>31,428,332</b>	<b>31,770,151</b>	<b>0.6</b>	<b>98.8</b>	<b>97.2</b>	<b>97.1</b>
Coal.....	26,752,349	27,537,426	28,812,844	.8	88.0	85.2	88.0
Petroleum.....	22,929	23,020	47,860	8.5	.1	.1	.1
Natural Gas.....	3,029,843	3,631,474	2,738,748	-1.1	10.0	11.2	8.4
Hydroelectric.....	212,890	236,412	170,699	-2.4	.7	.7	.5
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>372,663</b>	<b>895,737</b>	<b>965,501</b>	<b>11.2</b>	<b>1.2</b>	<b>2.8</b>	<b>2.9</b>
Petroleum.....	2,767	4,456	2,809	.2	*	*	*
Natural Gas.....	359,094	882,075	779,957	9.0	1.2	2.7	2.4
Other Renewables.....	10,802	9,206	182,735	36.9	*	*	.6
<b>Total Electric Industry</b> .....	<b>30,390,674</b>	<b>32,324,069</b>	<b>32,735,653</b>	<b>.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	26,752,349	27,537,426	28,812,844	.8	88.0	85.2	88.0
Petroleum.....	25,696	27,476	50,669	7.8	.1	.1	.2
Natural Gas.....	3,388,937	4,513,549	3,518,705	.4	11.2	14.0	10.7
Hydroelectric.....	212,890	236,412	170,699	-2.4	.7	.7	.5
Other Renewables.....	10,802	9,206	182,735	36.9	*	*	.6

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New Mexico</b>				
Coal (cents per million Btu).....	140.9	130.6	142.5	0.1
Average heat value (Btu per pound).....	9,043	9,082	9,164	.1
Average sulfur Content (percent).....	.8	.8	.7	-1.2
Petroleum (cents per million Btu).....	464.9	439.3	W	W
Average heat value (Btu per gallon).....	136,000	136,000	136,047	*
Average sulfur Content (percent).....	1.0	.9	.0	NM
Natural Gas (cents per million Btu).....	194.5	220.0	W	W
Average heat value (Btu per cubic foot).....	1,022	1,010	996	-3

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New Mexico</b>				
<b>Sulfur Dioxide</b>				
Coal.....	57	71	46	-2.3
Petroleum.....	*	*	*	-4.0
Natural Gas.....	*	*	*	1.3
Other.....	—	—	—	NM
Total.....	57	71	46	-2.3
<b>Nitrogen Oxide</b>				
Coal.....	109	73	68	-5.1
Petroleum.....	*	*	*	17.9
Gas.....	4	5	3	-3.9
Other.....	*	*	—	NM
Total.....	113	78	71	-5.1
<b>Carbon Dioxide</b>				
Coal.....	25,997	27,110	28,977	1.2
Petroleum.....	22	22	37	6.2
Gas.....	1,996	2,855	2,145	.8
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total.....	28,015	29,988	31,158	1.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New Mexico</b>							
Retail Sales (thousand megawatthours)							
Residential.....	4,080	4,642	5,418	3.2	25.7	25.5	28.0
Commercial.....	4,970	5,703	8,063	5.5	31.3	31.4	41.7
Industrial.....	5,184	6,186	5,849	1.3	32.7	34.0	30.3
Other.....	1,625	1,642	NA	NM	10.3	9.0	NA
Total.....	15,859	18,173	19,330	2.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	373	411	471	2.6	33.1	33.3	34.8
Commercial.....	413	445	593	4.1	36.6	36.1	43.8
Industrial.....	244	277	290	1.9	21.6	22.5	21.4
Other.....	98	100	NA	NM	8.7	8.1	NA
Total.....	1,127	1,233	1,354	2.1	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	9.14	8.85	8.69	-.6	NA	NA	NA
Commercial.....	8.30	7.80	7.36	-1.3	NA	NA	NA
Industrial.....	4.70	4.47	4.95	.6	NA	NA	NA
Other.....	6.05	6.11	NA	NM	NA	NA	NA
Total.....	7.11	6.78	7.00	-2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>New Mexico</b>								
Number of Entities.....	4	8	1	21	NA	NA	NA	34
Number of Retail Customers.....	624,777	79,747	4	189,781	NA	NA	NA	894,309
Retail Sales (thousand megawatthours).....	13,140	2,068	127	3,996	NA	NA	NA	19,330
Percentage of Retail Sales.....	67.97	10.70	.66	20.67	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	936	149	3	266	NA	NA	NA	1,354
Percentage of Revenue.....	69.11	11.03	.19	19.66	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.12	7.22	2.04	6.66	NA	NA	NA	7.00

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>New York</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	36,696	6
Electric Utilities .....	11,902	20
Independent Power Producers & Combined Heat and Power .....	24,796	5
Net Generation (megawatthours).....	137,643,316	7
Electric Utilities .....	41,578,894	25
Independent Power Producers & Combined Heat and Power .....	96,064,422	5
Emissions (thousand metric tons)		
Sulfur Dioxide .....	259	15
Nitrogen Oxide .....	81	21
Carbon Dioxide .....	56,944	14
Sulfur Dioxide (lbs/MWh).....	4.1	30
Nitrogen Oxide (lbs/MWh).....	1.3	42
Carbon Dioxide (lbs/MWh).....	912	41
Total Retail Sales (megawatthours).....	144,044,703	5
Full Service Provider Sales (megawatthours).....	100,387,510	11
Deregulated Sales (megawatthours).....	43,657,193	2
Direct Use (megawatthours).....	4,216,899	11
Average Retail Price (cents/kWh).....	12.44	2

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>New York</b>			
1. Ravenswood.....	Gas, Petroleum	KeySpan-Ravenswood Inc	2,447
2. Robert Moses Niagara.....	Hydro	Power Authority of State of NY	2,210
3. Nine Mile Point Nuclear Station.....	Nuclear	Nine Mile Point Nuclear Sta LLC	1,756
4. Oswego Harbor Power.....	Gas, Petroleum	NRG Oswego Harbor Power Operations Inc	1,667
5. Northport .....	Gas, Petroleum	KeySpan Generation LLC	1,552
6. Astoria Generating Station.....	Gas, Petroleum	Astoria Generating Co LP	1,290
7. Roseton Generating Station .....	Gas, Petroleum	Dynegy Northeast Gen Inc	1,207
8. Bowline Point.....	Gas, Petroleum	Mirant New York Inc	1,139
9. Blenheim Gilboa .....	Hydro	Power Authority of State of NY	1,057
10. Indian Point 3 .....	Nuclear	Energry Nuclear Indian Point 3	985

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>New York</b>						
1. Consolidated Edison Co-NY Inc.....	Investor-Owned	30,628,082	12,440,663	17,766,204	403,022	18,193
2. Niagara Mohawk Power Corp.....	Investor-Owned	20,934,910	10,232,341	8,075,084	2,627,485	0
3. Long Island Power Authority.....	Public	18,834,909	8,997,588	9,593,209	0	244,112
4. Power Authority of State of NY.....	Power Marketer	13,898,804	0	7,111,745	4,209,384	2,577,675
5. New York State Electric & Gas.....	Investor-Owned	11,388,219	5,574,081	2,474,015	3,313,581	26,542
Total Sales, Top Five Providers.....		95,684,924	37,244,673	45,020,257	10,553,472	2,866,522
Percent of Total State Sales.....		66	79	62	49	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New York</b>							
<b>Electric Utilities</b> .....	<b>32,824</b>	<b>29,585</b>	<b>11,902</b>	<b>-10.7</b>	<b>87.0</b>	<b>84.6</b>	<b>32.4</b>
Coal.....	3,879	3,891	302	-24.7	10.3	11.1	.8
Petroleum.....	5,115	4,519	2,320	-8.4	13.6	12.9	6.3
Natural Gas.....	4,825	1,363	1,017	-15.9	12.8	3.9	2.8
Dual Fired.....	6,938	9,779	3,258	-8.1	18.4	28.0	8.9
Nuclear.....	4,831	4,966	498	-22.3	12.8	14.2	1.4
Hydroelectric.....	3,796	3,787	3,210	-1.8	10.1	10.8	8.7
Pumped Storage.....	3,440	1,280	1,297	-10.3	9.1	3.7	3.5
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>4,921</b>	<b>5,395</b>	<b>24,796</b>	<b>19.7</b>	<b>13.0</b>	<b>15.4</b>	<b>67.6</b>
Coal.....	371	395	3,925	30.0	1.0	1.1	10.7
Petroleum.....	72	65	1,389	38.9	.2	.2	3.8
Natural Gas.....	2,026	2,519	2,199	.9	5.4	7.2	6.0
Other Gases.....	20	23	0	NM	.1	.1	.0
Dual Fired.....	1,691	1,620	11,430	23.7	4.5	4.6	31.1
Nuclear.....	0	0	4,531	NM	.0	.0	12.3
Hydroelectric.....	324	359	950	12.7	.9	1.0	2.6
Other Renewables.....	417	414	372	-1.3	1.1	1.2	1.0
<b>Total Electric Industry</b> .....	<b>37,745</b>	<b>34,981</b>	<b>36,696</b>	<b>-.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,251	4,286	4,226	-.1	11.3	12.3	11.5
Petroleum.....	5,187	4,585	3,708	-3.7	13.7	13.1	10.1
Natural Gas.....	6,851	3,882	3,216	-8.1	18.2	11.1	8.8
Other Gases.....	20	23	0	NM	.1	.1	.0
Dual Fired.....	8,628	11,399	14,688	6.1	22.9	32.6	40.0
Nuclear.....	4,831	4,966	5,028	.4	12.8	14.2	13.7
Hydroelectric.....	4,120	4,146	4,160	.1	10.9	11.9	11.3
Other Renewables.....	417	414	373	-1.2	1.1	1.2	1.0
Pumped Storage.....	3,440	1,280	1,297	-10.3	9.1	3.7	3.5

See footnotes at end of tables.



**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New York</b>							
<b>Electric Utilities</b> .....	<b>103,762,902</b>	<b>115,840,453</b>	<b>41,578,894</b>	<b>-9.7</b>	<b>82.3</b>	<b>80.0</b>	<b>30.2</b>
Coal.....	20,859,090	23,503,467	1,693,854	-24.3	16.6	16.2	1.2
Petroleum.....	10,998,162	14,523,573	9,681,490	-1.4	8.7	10.0	7.0
Natural Gas.....	17,463,636	19,913,329	7,737,717	-8.6	13.9	13.7	5.6
Nuclear.....	29,231,434	31,313,708	3,864,019	-20.1	23.2	21.6	2.8
Hydroelectric.....	26,345,630	27,739,454	19,513,620	-3.3	20.9	19.1	14.2
Other Renewables.....	10,794	4,603	0	NM	*	*	.0
Pumped Storage.....	-1,145,844	-1,157,681	-911,806	NM	-9	-8	-7
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>22,266,670</b>	<b>29,022,795</b>	<b>96,064,422</b>	<b>17.6</b>	<b>17.7</b>	<b>20.0</b>	<b>69.8</b>
Coal.....	2,431,566	1,761,313	21,887,213	27.7	1.9	1.2	15.9
Petroleum.....	1,032,216	377,209	9,610,109	28.1	.8	.3	7.0
Natural Gas.....	14,766,293	22,558,270	20,418,631	3.7	11.7	15.6	14.8
Other Gases.....	94,206	88,313	0	NM	.1	.1	.0
Nuclear.....	0	0	36,815,186	NM	.0	.0	26.7
Hydroelectric.....	1,445,627	1,576,324	4,755,040	14.1	1.1	1.1	3.5
Other Renewables.....	2,496,762	2,661,366	2,578,242	.4	2.0	1.8	1.9
<b>Total Electric Industry</b> .....	<b>126,029,572</b>	<b>144,863,248</b>	<b>137,643,316</b>	<b>1.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	23,290,656	25,264,780	23,581,067	.1	18.5	17.4	17.1
Petroleum.....	12,030,378	14,900,782	19,291,599	5.4	9.5	10.3	14.0
Natural Gas.....	32,229,929	42,471,599	28,156,348	-1.5	25.6	29.3	20.5
Other Gases.....	94,206	88,313	0	NM	.1	.1	.0
Nuclear.....	29,231,434	31,313,708	40,679,205	3.7	23.2	21.6	29.6
Hydroelectric.....	27,791,257	29,315,778	24,268,660	-1.5	22.1	20.2	17.6
Other Renewables.....	2,507,556	2,665,969	2,578,242	.3	2.0	1.8	1.9
Pumped Storage.....	-1,145,844	-1,157,681	-911,806	NM	-9	-8	-7

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New York</b>				
Coal (cents per million Btu).....	145.2	143.4	159.5	1.0
Average heat value (Btu per pound).....	12,959	13,052	12,545	-4
Average sulfur Content (percent).....	1.7	1.7	1.8	.6
Petroleum (cents per million Btu).....	251.3	203.5	493.2	7.8
Average heat value (Btu per gallon).....	149,567	150,742	149,997	*
Average sulfur Content (percent).....	.7	.8	.7	*
Natural Gas (cents per million Btu).....	223.6	249.6	605.0	11.7
Average heat value (Btu per cubic foot).....	1,031	1,029	1,024	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>New York</b>				
Sulfur Dioxide				
Coal .....	222	225	187	-1.9
Petroleum .....	44	62	70	5.4
Natural Gas .....	*	*	*	5.3
Other .....	3	1	2	-5.3
Total .....	269	288	259	-4
Nitrogen Oxide				
Coal .....	87	62	39	-8.6
Petroleum .....	19	17	23	1.9
Gas .....	33	34	13	-10.2
Other .....	6	6	7	1.7
Total .....	145	119	81	-6.3
Carbon Dioxide				
Coal .....	24,496	25,919	24,099	-2
Petroleum .....	10,611	12,686	16,322	4.9
Gas .....	17,646	22,132	14,993	-1.8
Geothermal .....	—	—	—	NM
Other .....	377	407	1,531	16.8
Total .....	53,129	61,145	56,944	.8

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>New York</b>							
Retail Sales (thousand megawatthours)							
Residential .....	40,105	40,563	47,116	1.8	30.6	30.2	32.7
Commercial .....	48,828	55,745	72,495	4.5	37.2	41.5	50.3
Industrial .....	29,467	25,218	21,745	-3.3	22.5	18.8	15.1
Other .....	12,777	12,669	NA	NM	9.7	9.4	NA
Transportation .....	NA	NA	2,689	NM	NA	NA	1.9
Total .....	131,177	134,196	144,045	1.0	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	5,435	5,523	6,743	2.4	37.9	38.7	37.6
Commercial .....	5,700	6,376	9,372	5.7	39.8	44.7	52.3
Industrial .....	1,996	1,247	1,552	-2.8	13.9	8.7	8.7
Other .....	1,189	1,121	NA	NM	8.3	7.9	NA
Transportation .....	NA	NA	252	NM	NA	NA	1.4
Total .....	14,320	14,267	17,920	2.5	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	13.55	13.66	14.31	.6	NA	NA	NA
Commercial .....	11.67	11.63	12.93	1.1	NA	NA	NA
Industrial .....	6.77	4.95	7.14	.6	NA	NA	NA
Other .....	9.31	8.85	NA	NM	NA	NA	NA
Transportation .....	NA	NA	9.38	NM	NA	NA	NA
Total .....	10.92	10.71	12.44	1.5	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>New York</b>								
Number of Entities.....	9	48	NA	4	3	25	7	96
Number of Retail Customers.....	6,245,232	1,243,176	NA	16,816	1,867	369,904	NA	7,876,995
Retail Sales (thousand megawatthours).....	76,373	23,538	NA	186	291	43,657	NA	144,045
Percentage of Retail Sales.....	53.02	16.34	NA	.13	.20	30.31	NA	100.00
Revenue from Retail Sales (million dollars).....	10,480	2,744	NA	16	23	3,065	1,591	17,920
Percentage of Revenue.....	58.48	15.31	NA	.09	.13	17.10	8.88	100.00
Average Retail Price (cents/kWh).....	13.72	11.66	NA	8.73	8.06	7.02	3.65	12.44

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

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\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

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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.

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>North Carolina</b>		
NERC Region(s).....		SERC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	27,263	12
Electric Utilities .....	23,725	5
Independent Power Producers & Combined Heat and Power .....	3,538	25
Net Generation (megawatthours).....	127,582,319	9
Electric Utilities .....	118,433,112	4
Independent Power Producers & Combined Heat and Power .....	9,149,207	25
Emissions (thousand metric tons)		
Sulfur Dioxide .....	450	10
Nitrogen Oxide.....	138	10
Carbon Dioxide.....	71,977	13
Sulfur Dioxide (lbs/MWh).....	7.8	13
Nitrogen Oxide (lbs/MWh).....	2.4	30
Carbon Dioxide (lbs/MWh).....	1,244	34
Total Retail Sales (megawatthours).....	121,335,121	9
Full Service Provider Sales (megawatthours).....	121,335,121	7
Direct Use (megawatthours).....	4,091,493	12
Average Retail Price (cents/kWh).....	6.86	22

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>North Carolina</b>			
1. Roxboro .....	Petroleum, Coal	Carolina Power & Light Co	2,477
2. Belews Creek.....	Petroleum, Coal	Duke Energy Corp	2,240
3. McGuire.....	Nuclear	Duke Energy Corp	2,200
4. Marshall.....	Petroleum, Coal	Duke Energy Corp	2,090
5. Brunswick.....	Nuclear	Carolina Power & Light Co	1,683
6. Lincoln Combustion .....	Petroleum	Duke Energy Corp	1,267
7. Richmond.....	Petroleum, Gas	Carolina Power & Light Co	1,247
8. G G Allen.....	Petroleum, Coal	Duke Energy Corp	1,140
9. Rowan.....	Petroleum, Gas	Progress Energy Ventures	967
10. Asheville.....	Petroleum, Gas, Coal	Carolina Power & Light Co	937

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>North Carolina</b>						
1. Duke Energy Corp.....	Investor-Owned	53,024,862	18,385,089	19,630,622	15,009,151	0
2. Carolina Power & Light Co.....	Investor-Owned	34,857,713	13,159,332	12,177,971	9,520,410	0
3. Dominion Virginia Power .....	Investor-Owned	3,873,836	1,423,184	887,559	1,563,093	0
4. Fayetteville Public Works Comm.....	Public	2,043,860	850,900	813,515	379,445	0
5. EnergyUnited Elec Member Corp.....	Cooperative	1,926,340	1,368,999	435,380	121,961	0
Total Sales, Top Five Providers.....		95,726,611	35,187,504	33,945,047	26,594,060	0
Percent of Total State Sales .....		79	71	81	88	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>North Carolina</b>							
<b>Electric Utilities</b> .....	<b>19,767</b>	<b>21,020</b>	<b>23,725</b>	<b>2.0</b>	<b>92.0</b>	<b>92.0</b>	<b>87.0</b>
Coal.....	12,438	12,440	12,440	*	57.9	54.5	45.6
Petroleum.....	304	358	400	3.1	1.4	1.6	1.5
Natural Gas.....	68	96	2,270	47.7	.3	.4	8.3
Dual Fired.....	718	1,851	2,176	13.1	3.3	8.1	8.0
Nuclear.....	4,639	4,691	4,783	.3	21.6	20.5	17.5
Hydroelectric.....	1,532	1,584	1,562	.2	7.1	6.9	5.7
Pumped Storage.....	68	0	94	3.7	.3	.0	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>1,716</b>	<b>1,821</b>	<b>3,538</b>	<b>8.4</b>	<b>8.0</b>	<b>8.0</b>	<b>13.0</b>
Coal.....	917	826	828	-1.1	4.3	3.6	3.0
Petroleum.....	18	40	50	12.0	.1	.2	.2
Natural Gas.....	0	14	566	NM	.0	.1	2.1
Dual Fired.....	188	191	1,415	25.1	.9	.8	5.2
Hydroelectric.....	362	405	377	.5	1.7	1.8	1.4
Other Renewables.....	194	308	265	3.5	.9	1.3	1.0
Other.....	37	37	37	.0	.2	.2	.1
<b>Total Electric Industry</b> .....	<b>21,483</b>	<b>22,841</b>	<b>27,263</b>	<b>2.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	13,356	13,266	13,268	-.1	62.2	58.1	48.7
Petroleum.....	321	398	451	3.8	1.5	1.7	1.7
Natural Gas.....	68	110	2,836	51.4	.3	.5	10.4
Dual Fired.....	906	2,042	3,591	16.5	4.2	8.9	13.2
Nuclear.....	4,639	4,691	4,783	.3	21.6	20.5	17.5
Hydroelectric.....	1,894	1,990	1,939	.3	8.8	8.7	7.1
Other Renewables.....	194	307	264	3.5	.9	1.3	1.0
Pumped Storage.....	68	0	94	3.7	.3	.0	.3
Other.....	37	37	37	.0	.2	.2	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>North Carolina</b>							
<b>Electric Utilities</b> .....	<b>91,454,784</b>	<b>113,112,235</b>	<b>118,433,112</b>	<b>2.9</b>	<b>90.7</b>	<b>93.2</b>	<b>92.8</b>
Coal.....	53,234,497	69,000,633	70,630,278	3.2	52.8	56.8	55.4
Petroleum.....	199,418	285,902	459,947	9.7	.2	.2	.4
Natural Gas.....	69,076	936,314	1,257,328	38.0	.1	.8	1.0
Nuclear.....	32,346,007	38,778,211	40,906,900	2.6	32.1	31.9	32.1
Hydroelectric.....	5,224,967	4,045,503	5,059,386	-4	5.2	3.3	4.0
Pumped Storage.....	380,819	65,672	119,273	-12.1	.4	.1	.1
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>9,373,878</b>	<b>8,266,589</b>	<b>9,149,207</b>	<b>-3</b>	<b>9.3</b>	<b>6.8</b>	<b>7.2</b>
Coal.....	4,889,893	3,948,830	4,145,953	-1.8	4.8	3.3	3.3
Petroleum.....	252,816	405,412	323,748	2.8	.3	.3	.3
Natural Gas.....	241,166	348,043	323,038	3.3	.2	.3	.3
Other Gases.....	0	0	17	NM	.0	.0	.0
Hydroelectric.....	1,967,309	1,692,704	2,141,558	.9	2.0	1.4	1.7
Other Renewables.....	1,761,917	1,622,244	2,031,422	1.6	1.7	1.3	1.6
Other.....	260,777	249,356	183,472	-3.8	.3	.2	.1
<b>Total Electric Industry</b> .....	<b>100,828,662</b>	<b>121,378,824</b>	<b>127,582,319</b>	<b>2.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	58,124,390	72,949,463	74,776,231	2.8	57.6	60.1	58.6
Petroleum.....	452,234	691,314	783,695	6.3	.4	.6	.6
Natural Gas.....	310,242	1,284,357	1,580,366	19.8	.3	1.1	1.2
Other Gases.....	0	0	17	NM	.0	.0	.0
Nuclear.....	32,346,007	38,778,211	40,906,900	2.6	32.1	31.9	32.1
Hydroelectric.....	7,192,276	5,738,207	7,200,944	*	7.1	4.7	5.6
Other Renewables.....	1,761,917	1,622,244	2,031,422	1.6	1.7	1.3	1.6
Pumped Storage.....	380,819	65,672	119,273	-12.1	.4	.1	.1
Other.....	260,777	249,356	183,472	-3.8	.3	.2	.1

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>North Carolina</b>				
Coal (cents per million Btu).....	168.2	143.8	178.4	0.7
Average heat value (Btu per pound).....	12,416	12,398	12,423	*
Average sulfur Content (percent).....	.9	.9	.9	-1.0
Petroleum (cents per million Btu).....	383.8	310.5	622.7	5.5
Average heat value (Btu per gallon).....	138,239	138,168	140,847	.2
Average sulfur Content (percent).....	.2	.2	.5	10.1
Natural Gas (cents per million Btu).....	325.7	267.9	560.4	6.2
Average heat value (Btu per cubic foot).....	1,038	1,048	1,032	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>North Carolina</b>				
Sulfur Dioxide				
Coal .....	377	446	437	1.6
Petroleum .....	1	2	4	14.8
Natural Gas .....	—	*	*	NM
Other .....	15	2	10	-4.7
Total .....	394	450	450	1.5
Nitrogen Oxide				
Coal .....	220	247	133	-5.5
Petroleum .....	1	2	2	.4
Gas .....	1	1	*	-3.9
Other .....	4	4	3	-5
Total .....	226	253	138	-5.3
Carbon Dioxide				
Coal .....	55,277	68,007	69,848	2.6
Petroleum .....	1,143	1,497	1,258	1.1
Gas .....	281	998	789	12.1
Geothermal .....	—	—	—	NM
Other .....	15	13	82	20.8
Total .....	56,716	70,515	71,977	2.7

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>North Carolina</b>							
Retail Sales (thousand megawatthours)							
Residential .....	37,207	42,890	49,349	3.2	37.3	37.8	40.7
Commercial .....	27,458	33,637	41,672	4.7	27.5	29.6	34.3
Industrial .....	33,307	34,986	30,314	-1.0	33.4	30.8	25.0
Other .....	1,817	2,083	NA	NM	1.8	1.8	NA
Total .....	99,789	113,596	121,335	2.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	3,041	3,434	4,106	3.4	46.0	46.8	49.3
Commercial .....	1,802	2,137	2,770	4.9	27.3	29.1	33.3
Industrial .....	1,642	1,620	1,453	-1.3	24.8	22.1	17.4
Other .....	126	142	NA	NM	1.9	1.9	NA
Total .....	6,611	7,332	8,329	2.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.17	8.01	8.32	.2	NA	NA	NA
Commercial .....	6.56	6.35	6.65	.1	NA	NA	NA
Industrial .....	4.93	4.63	4.79	-.3	NA	NA	NA
Other .....	6.91	6.79	NA	NM	NA	NA	NA
Total .....	6.62	6.45	6.86	.4	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>North Carolina</b>								
Number of Entities.....	3	72	1	32	3	NA	NA	111
Number of Retail Customers.....	2,934,296	538,836	4	892,553	3	NA	NA	4,365,692
Retail Sales (thousand megawatthours) .....	91,756	14,823	6	14,719	31	NA	NA	121,335
Percentage of Retail Sales .....	75.62	12.22	*	12.13	.03	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	5,877	1,208	*	1,244	*	NA	NA	8,329
Percentage of Revenue.....	70.56	14.50	*	14.94	*	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.40	8.15	3.91	8.45	.39	NA	NA	6.86

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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



**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>North Dakota</b>		
NERC Region(s).....		MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	4,664	41
Electric Utilities .....	4,563	35
Independent Power Producers & Combined Heat and Power .....	101	49
Net Generation (megawatthours).....	31,322,129	38
Electric Utilities .....	31,075,012	32
Independent Power Producers & Combined Heat and Power .....	247,117	48
Emissions (thousand metric tons)		
Sulfur Dioxide .....	128	22
Nitrogen Oxide .....	70	28
Carbon Dioxide .....	31,770	30
Sulfur Dioxide (lbs/MWh).....	9.0	9
Nitrogen Oxide (lbs/MWh).....	4.9	3
Carbon Dioxide (lbs/MWh).....	2,236	3
Total Retail Sales (megawatthours).....	10,461,108	46
Full Service Provider Sales (megawatthours).....	10,461,108	43
Direct Use (megawatthours).....	166,558	44
Average Retail Price (cents/kWh).....	5.47	45

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>North Dakota</b>			
1. Coal Creek.....	Petroleum, Coal	Great River Energy	1,116
2. Antelope Valley.....	Petroleum, Coal	Basin Electric Power Coop	900
3. Milton R Young.....	Petroleum, Coal	Minnkota Power Coop Inc	705
4. Leland Olds.....	Petroleum, Coal	Basin Electric Power Coop	669
5. Coyote.....	Petroleum, Coal	Otter Tail Power Co	427
6. Garrison.....	Hydro	USCE-Missouri River District	371
7. Stanton.....	Petroleum, Coal	Great River Energy	188
8. R M Heskett.....	Gas, Coal	MDU Resources Group Inc	104
9. FPL Energy North Dakota Wind I/II.....	Other	FPL Energy North Dakota Wind LLC	62
10. Jamestown.....	Petroleum	Otter Tail Power Co	45

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>North Dakota</b>						
1. Northern States Power Co.....	Investor-Owned	2,070,050	745,836	1,001,057	323,157	0
2. Otter Tail Power Co.....	Investor-Owned	1,501,854	527,298	917,288	57,268	0
3. MDU Resources Group Inc.....	Investor-Owned	1,359,933	523,351	712,789	123,793	0
4. Basin Electric Power Coop.....	Cooperative	922,406	0	0	922,406	0
5. Cass County Electric Coop Inc.....	Cooperative	694,752	391,322	246,918	56,512	0
Total Sales, Top Five Providers.....		6,548,995	2,187,807	2,878,052	1,483,136	0
Percent of Total State Sales.....		63	59	76	50	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>North Dakota</b>							
<b>Electric Utilities</b> .....	<b>4,489</b>	<b>4,656</b>	<b>4,563</b>	<b>0.2</b>	<b>99.2</b>	<b>99.3</b>	<b>97.8</b>
Coal.....	3,867	4,068	4,107	.7	85.4	86.7	88.1
Petroleum.....	67	61	72	.8	1.5	1.3	1.5
Natural Gas.....	10	9	10	.0	.2	.2	.2
Hydroelectric.....	545	518	371	-4.2	12.0	11.0	8.0
Other Renewables.....	0	0	3	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>37</b>	<b>34</b>	<b>101</b>	<b>11.8</b>	<b>.8</b>	<b>.7</b>	<b>2.2</b>
Coal.....	18	18	21	1.7	.4	.4	.4
Natural Gas.....	3	0	0	NM	.1	.0	.0
Other Gases.....	7	7	8	1.5	.2	.1	.2
Other Renewables.....	9	9	72	26.0	.2	.2	1.5
<b>Total Electric Industry</b> .....	<b>4,526</b>	<b>4,690</b>	<b>4,664</b>	<b>.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,885	4,086	4,129	.7	85.8	87.1	88.5
Petroleum.....	67	61	72	.8	1.5	1.3	1.5
Natural Gas.....	13	9	10	-2.9	.3	.2	.2
Other Gases.....	7	7	8	1.5	.2	.1	.2
Hydroelectric.....	545	518	371	-4.2	12.0	11.0	8.0
Other Renewables.....	9	9	74	26.4	.2	.2	1.6

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>North Dakota</b>							
<b>Electric Utilities</b> .....	<b>29,003,713</b>	<b>30,518,976</b>	<b>31,075,012</b>	<b>0.8</b>	<b>99.5</b>	<b>99.5</b>	<b>99.2</b>
Coal.....	27,099,914	28,176,015	29,298,347	.9	92.9	91.9	93.5
Petroleum.....	47,340	47,091	45,648	-4	.2	.2	.1
Natural Gas.....	-2	-78	-47	NM	.0	.0	.0
Hydroelectric.....	1,856,461	2,295,948	1,723,904	-8	6.4	7.5	5.5
Other Renewables.....	0	0	7,160	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>152,112</b>	<b>152,975</b>	<b>247,117</b>	<b>5.5</b>	<b>.5</b>	<b>.5</b>	<b>.8</b>
Coal.....	81,173	80,845	128,964	5.3	.3	.3	.4
Petroleum.....	13,520	17,433	6,244	-8.2	*	.1	*
Natural Gas.....	57	807	9,493	76.5	.0	*	*
Other Gases.....	43,779	52,366	50,096	1.5	.1	.2	.2
Other Renewables.....	13,583	1,524	52,320	16.2	*	*	.2
<b>Total Electric Industry</b> .....	<b>29,155,825</b>	<b>30,671,951</b>	<b>31,322,129</b>	<b>.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	27,181,087	28,256,860	29,427,311	.9	93.2	92.1	94.0
Petroleum.....	60,860	64,524	51,892	-1.8	.2	.2	.2
Natural Gas.....	55	729	9,446	77.1	.0	*	*
Other Gases.....	43,779	52,366	50,096	1.5	.1	.2	.2
Hydroelectric.....	1,856,461	2,295,948	1,723,904	-8	6.4	7.5	5.5
Other Renewables.....	13,583	1,524	59,480	17.8	*	*	.2

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>North Dakota</b>				
Coal (cents per million Btu).....	70.4	76.2	74.2	0.6
Average heat value (Btu per pound).....	6,593	6,566	6,549	-.1
Average sulfur Content (percent).....	.8	.8	.7	-1.0
Petroleum (cents per million Btu).....	407.2	311.9	675.9	5.8
Average heat value (Btu per gallon).....	138,683	138,812	138,996	*
Average sulfur Content (percent).....	.4	.4	.4	-1.0
Natural Gas (cents per million Btu).....	375.7	369.3	744.3	7.9
Average heat value (Btu per cubic foot).....	1,095	1,050	1,029	-.7

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>North Dakota</b>				
<b>Sulfur Dioxide</b>				
Coal.....	139	178	128	-0.9
Petroleum.....	*	*	*	-8.2
Natural Gas.....	—	—	—	NM
Other.....	—	—	*	NM
Total.....	139	178	128	-.9
<b>Nitrogen Oxide</b>				
Coal.....	66	91	70	.6
Petroleum.....	*	*	*	-6.7
Gas.....	—	—	*	NM
Other.....	—	*	*	NM
Total.....	66	91	70	.6
<b>Carbon Dioxide</b>				
Coal.....	30,597	31,887	31,684	.4
Petroleum.....	105	91	63	-5.6
Gas.....	*	2	23	60.8
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total.....	30,702	31,980	31,770	.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>North Dakota</b>							
Retail Sales (thousand megawatthours)							
Residential.....	3,243	3,272	3,707	1.5	42.2	39.8	35.4
Commercial.....	1,884	2,305	3,800	8.1	24.5	28.0	36.3
Industrial.....	2,011	2,187	2,954	4.4	26.2	26.6	28.2
Other.....	542	456	NA	NM	7.1	5.5	NA
Total.....	7,681	8,220	10,461	3.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	207	212	241	1.7	46.6	45.2	42.1
Commercial.....	122	143	214	6.4	27.5	30.5	37.4
Industrial.....	95	94	117	2.3	21.4	20.0	20.4
Other.....	21	19	NA	NM	4.7	4.0	NA
Total.....	444	469	572	2.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	6.37	6.49	6.49	.2	NA	NA	NA
Commercial.....	6.45	6.20	5.64	-1.5	NA	NA	NA
Industrial.....	4.71	4.30	3.96	-1.9	NA	NA	NA
Other.....	3.82	4.27	NA	NM	NA	NA	NA
Total.....	5.77	5.70	5.47	-6	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	23	NA	NA	NA	39
Number of Retail Customers.....	213,027	11,197	18	130,081	NA	NA	NA	354,323
Retail Sales (thousand megawatthours).....	4,932	279	193	5,057	NA	NA	NA	10,461
Percentage of Retail Sales.....	47.14	2.67	1.85	48.34	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	291	13	3	266	NA	NA	NA	572
Percentage of Revenue.....	50.80	2.26	.49	46.45	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.89	4.63	1.45	5.25	NA	NA	NA	5.47

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Ohio</b>		
NERC Region(s).....		ECAR
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	34,060	8
Electric Utilities .....	27,695	2
Independent Power Producers & Combined Heat and Power .....	6,367	17
Net Generation (megawatthours) .....	146,638,128	6
Electric Utilities .....	139,086,083	2
Independent Power Producers & Combined Heat and Power .....	7,552,045	30
Emissions (thousand metric tons)		
Sulfur Dioxide .....	1,141	1
Nitrogen Oxide .....	335	1
Carbon Dioxide .....	127,703	3
Sulfur Dioxide (lbs/MWh).....	17.2	1
Nitrogen Oxide (lbs/MWh).....	5.0	2
Carbon Dioxide (lbs/MWh).....	1,920	12
Total Retail Sales (megawatthours) .....	152,189,238	4
Full Service Provider Sales (megawatthours).....	127,249,081	5
Deregulated Sales (megawatthours) .....	24,940,157	3
Direct Use (megawatthours).....	1,486,344	25
Average Retail Price (cents/kWh).....	6.73	25

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Ohio</b>			
1. General James M Gavin .....	Petroleum, Coal	Ohio Power Co	2,600
2. J M Stuart.....	Petroleum, Coal	Dayton Power & Light Co	2,350
3. W H Sammis.....	Petroleum, Coal	Ohio Edison Co	2,233
4. Conesville .....	Petroleum, Coal	Columbus Southern Power Co	1,925
5. Cardinal .....	Petroleum, Coal	Cardinal Operating Co	1,800
6. Muskingum River.....	Petroleum, Coal	Ohio Power Co	1,365
7. Walter C Beckjord .....	Petroleum, Coal	Cincinnati Gas & Electric Co	1,304
8. W H Zimmer .....	Petroleum, Coal	Cincinnati Gas & Electric Co	1,300
9. Miami Fort.....	Petroleum, Coal	Cincinnati Gas & Electric Co	1,300
10. Hanging Rock Energy Facility .....	Gas	Duke Energy Hanging Rock LLC	1,288

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Ohio</b>						
1. Ohio Power Co.....	Investor-Owned	27,209,193	7,183,630	5,707,432	14,318,131	0
2. Columbus Southern Power Co.....	Investor-Owned	16,960,049	6,735,021	7,464,767	2,760,261	0
3. Ohio Edison Co.....	Investor-Owned	16,879,469	6,298,405	4,153,921	6,427,143	0
4. Cincinnati Gas & Electric Co.....	Investor-Owned	16,796,420	6,736,891	5,666,038	4,393,491	0
5. Dayton Power & Light Co.....	Investor-Owned	11,704,556	5,070,736	4,430,018	2,199,295	4,507
Total Sales, Top Five Providers.....		89,549,687	32,024,683	27,422,176	30,098,321	4,507
Percent of Total State Sales.....		59	65	61	52	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Ohio</b>							
<b>Electric Utilities</b> .....	<b>27,193</b>	<b>26,767</b>	<b>27,695</b>	<b>0.2</b>	<b>98.1</b>	<b>98.8</b>	<b>81.3</b>
Coal.....	23,058	22,456	21,258	-.9	83.2	82.9	62.4
Petroleum.....	870	771	946	.9	3.1	2.8	2.8
Natural Gas.....	502	514	2,032	16.8	1.8	1.9	6.0
Dual Fired.....	512	771	1,095	8.8	1.8	2.8	3.2
Nuclear.....	2,037	2,042	2,108	.4	7.4	7.5	6.2
Hydroelectric.....	124	123	162	3.0	.4	.5	.5
Other Renewables.....	90	90	94	.5	.3	.3	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>516</b>	<b>322</b>	<b>6,367</b>	<b>32.2</b>	<b>1.9</b>	<b>1.2</b>	<b>18.7</b>
Coal.....	378	199	1,095	12.5	1.4	.7	3.2
Petroleum.....	6	6	49	26.3	*	*	.1
Natural Gas.....	3	1	3,589	119.8	*	*	10.5
Other Gases.....	73	63	81	1.2	.3	.2	.2
Dual Fired.....	24	17	1,535	58.7	.1	.1	4.5
Hydroelectric.....	3	0	0	NM	*	.0	.0
Other Renewables.....	29	36	18	-5.2	.1	.1	.1
<b>Total Electric Industry</b> .....	<b>27,709</b>	<b>27,091</b>	<b>34,060</b>	<b>2.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	23,436	22,655	22,352	-.5	84.6	83.6	65.6
Petroleum.....	876	777	995	1.4	3.2	2.9	2.9
Natural Gas.....	505	516	5,621	30.7	1.8	1.9	16.5
Other Gases.....	73	63	81	1.2	.3	.2	.2
Dual Fired.....	536	788	2,630	19.3	1.9	2.9	7.7
Nuclear.....	2,037	2,042	2,108	.4	7.4	7.5	6.2
Hydroelectric.....	127	123	162	2.7	.5	.5	.5
Other Renewables.....	119	127	111	-8	.4	.5	.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Ohio</b>							
<b>Electric Utilities</b> .....	<b>129,020,582</b>	<b>146,448,159</b>	<b>139,086,083</b>	<b>0.8</b>	<b>97.9</b>	<b>99.0</b>	<b>94.8</b>
Coal.....	117,354,244	128,696,073	129,255,272	1.1	89.1	87.0	88.1
Petroleum.....	372,313	351,408	387,257	.4	.3	.2	.3
Natural Gas.....	152,957	518,519	456,255	12.9	.1	.3	.3
Nuclear.....	10,952,247	16,475,732	8,475,016	-2.8	8.3	11.1	5.8
Hydroelectric.....	188,821	406,427	510,835	11.7	.1	.3	.3
Other Renewables.....	0	0	1,448	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,743,028</b>	<b>1,491,898</b>	<b>7,552,045</b>	<b>11.9</b>	<b>2.1</b>	<b>1.0</b>	<b>5.1</b>
Coal.....	1,815,314	527,108	5,513,865	13.1	1.4	.4	3.8
Petroleum.....	52,175	19,430	22,897	-8.7	*	*	*
Natural Gas.....	218,634	159,059	1,337,328	22.3	.2	.1	.9
Other Gases.....	144,300	185,762	212,523	4.4	.1	.1	.1
Hydroelectric.....	2,950	0	0	NM	*	.0	.0
Other Renewables.....	509,655	600,539	439,269	-1.6	.4	.4	.3
Other.....	0	0	26,163	NM	.0	.0	*
<b>Total Electric Industry</b> .....							
<b>Coal</b> .....	<b>119,169,558</b>	<b>129,223,181</b>	<b>134,769,137</b>	<b>1.4</b>	<b>90.4</b>	<b>87.3</b>	<b>91.9</b>
Petroleum.....	424,488	370,838	410,154	-4	.3	.3	.3
Natural Gas.....	371,591	677,578	1,793,583	19.1	.3	.5	1.2
Other Gases.....	144,300	185,762	212,523	4.4	.1	.1	.1
Nuclear.....	10,952,247	16,475,732	8,475,016	-2.8	8.3	11.1	5.8
Hydroelectric.....	191,771	406,427	510,835	11.5	.1	.3	.3
Other Renewables.....	509,655	600,539	440,717	-1.6	.4	.4	.3
Other.....	0	0	26,163	NM	.0	.0	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Ohio</b>				
Coal (cents per million Btu).....	143.9	136.5	121.2	-1.9
Average heat value (Btu per pound).....	12,052	11,913	12,160	.1
Average sulfur Content (percent).....	2.3	2.0	2.1	-1.0
Petroleum (cents per million Btu).....	196.6	202.1	730.9	15.7
Average heat value (Btu per gallon).....	82,225	105,737	137,809	5.9
Average sulfur Content (percent).....	2.7	2.7	.2	-24.0
Natural Gas (cents per million Btu).....	374.5	308.4	598.0	5.3
Average heat value (Btu per cubic foot).....	1,029	1,027	1,037	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Ohio</b>				
<b>Sulfur Dioxide</b>				
Coal .....	1,892	1,268	1,135	-5.5
Petroleum .....	3	18	4	3.1
Natural Gas .....	—	—	*	NM
Other .....	10	1	2	-16.4
Total .....	1,905	1,287	1,141	-5.5
<b>Nitrogen Oxide</b>				
Coal .....	483	484	330	-4.2
Petroleum .....	1	1	3	9.4
Gas .....	1	2	1	2.9
Other .....	2	2	1	-7.9
Total .....	488	488	335	-4.1
<b>Carbon Dioxide</b>				
Coal .....	112,295	121,756	126,072	1.3
Petroleum .....	915	975	408	-8.6
Gas .....	356	903	1,223	14.7
Geothermal .....	—	—	—	NM
Other .....	9	—	—	NM
Total .....	113,576	123,635	127,703	1.3

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Ohio</b>							
<b>Retail Sales (thousand megawatthours)</b>							
Residential .....	41,791	44,516	49,621	1.9	27.1	27.9	32.6
Commercial .....	34,053	38,472	44,737	3.1	22.1	24.1	29.4
Industrial .....	74,010	72,998	57,828	-2.7	47.9	45.7	38.0
Other .....	4,522	3,807	NA	NM	2.9	2.4	NA
Transportation .....	NA	NA	5	NM	NA	NA	.0
Total .....	154,377	159,793	152,189	-2	100.0	100.0	100.0
<b>Retail Revenue (million dollars)</b>							
Residential .....	3,576	3,875	4,100	1.5	37.4	38.0	40.0
Commercial .....	2,628	2,950	3,377	2.8	27.5	28.9	33.0
Industrial .....	3,061	3,142	2,768	-1.1	32.0	30.8	27.0
Other .....	288	231	NA	NM	3.0	2.3	NA
Total .....	9,553	10,198	10,246	.8	100.0	100.0	100.0
<b>Average Retail Price (cents/kWh)</b>							
Residential .....	8.56	8.70	8.26	-4	NA	NA	NA
Commercial .....	7.72	7.67	7.55	-3	NA	NA	NA
Industrial .....	4.14	4.30	4.79	1.6	NA	NA	NA
Other .....	6.36	6.07	NA	NM	NA	NA	NA
Transportation .....	NA	NA	6.17	NM	NA	NA	NA
Total .....	6.19	6.38	6.73	.9	NA	NA	NA

See footnotes at end of tables.



**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Ohio</b>								
Number of Entities.....	9	85	NA	25	1	10	6	136
Number of Retail Customers.....	3,751,772	370,524	NA	358,050	1	916,961	NA	5,397,308
Retail Sales (thousand megawatthours) .....	110,660	9,334	NA	7,126	130	24,940	NA	152,189
Percentage of Retail Sales .....	72.71	6.13	NA	4.68	.09	16.39	NA	100.00
Revenue from Retail Sales (million dollars) .....	7,061	647	NA	495	4	970	1,068	10,246
Percentage of Revenue.....	68.91	6.32	NA	4.83	.04	9.47	10.42	100.00
Average Retail Price (cents/kWh).....	6.38	6.94	NA	6.95	3.15	3.89	4.28	6.73

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Oklahoma</b>		
NERC Region(s).....		SPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	18,239	22
Electric Utilities .....	13,464	18
Independent Power Producers & Combined Heat and Power .....	4,776	19
Net Generation (megawatthours).....	60,626,856	22
Electric Utilities .....	49,776,514	19
Independent Power Producers & Combined Heat and Power .....	10,850,342	22
Emissions (thousand metric tons)		
Sulfur Dioxide .....	110	25
Nitrogen Oxide.....	86	18
Carbon Dioxide.....	48,521	18
Sulfur Dioxide (lbs/MWh).....	4.0	31
Nitrogen Oxide (lbs/MWh).....	3.1	19
Carbon Dioxide (lbs/MWh).....	1,764	16
Total Retail Sales (megawatthours).....	50,428,168	26
Full Service Provider Sales (megawatthours).....	50,428,168	25
Direct Use (megawatthours).....	1,152,560	29
Average Retail Price (cents/kWh).....	6.35	31

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Oklahoma</b>			
1. Muskogee.....	Gas, Coal	Oklahoma Gas & Electric Co	1,666
2. Northeastern.....	Gas, Coal	Public Service Co of Oklahoma	1,549
3. Seminole .....	Petroleum, Gas	Oklahoma Gas & Electric Co	1,536
4. Kiamichi Energy Facility.....	Gas	Kiowa Power Partners LLC	1,178
5. Oneta Energy Center.....	Gas	Calpine Central, L.P.	1,082
6. Sooner.....	Petroleum, Coal	Oklahoma Gas & Electric Co	1,019
7. GRDA.....	Petroleum, Gas, Coal	Grand River Dam Authority	1,010
8. Riverside.....	Gas	Public Service Co of Oklahoma	920
9. Horseshoe Lake.....	Petroleum, Gas	Oklahoma Gas & Electric Co	860
10. Green Country Energy LLC.....	Gas	Green Country OP Services LLC	779

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Oklahoma</b>						
1. Oklahoma Gas & Electric Co.....	Investor-Owned	20,824,201	7,510,506	7,616,621	5,697,074	0
2. Public Service Co of Oklahoma.....	Investor-Owned	16,719,328	5,718,453	6,150,614	4,850,261	0
3. Oklahoma Electric Coop Inc.....	Cooperative	808,129	570,842	174,585	62,702	0
4. City of Edmond.....	Public	697,504	393,742	165,378	138,384	0
5. Grand River Dam Authority.....	Public	546,378	0	40,717	505,661	0
Total Sales, Top Five Providers.....		39,595,540	14,193,543	14,147,915	11,254,082	0
Percent of Total State Sales.....		79	70	83	85	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Oklahoma</b>							
<b>Electric Utilities</b> .....	<b>12,898</b>	<b>12,622</b>	<b>13,464</b>	<b>0.5</b>	<b>94.3</b>	<b>94.3</b>	<b>73.8</b>
Coal.....	4,868	4,837	4,941	.2	35.6	36.1	27.1
Petroleum.....	30	28	36	2.0	.2	.2	.2
Natural Gas.....	858	933	5,421	22.7	6.3	7.0	29.7
Other Gases.....	52	55	61	1.8	.4	.4	.3
Dual Fired.....	6,055	5,734	1,945	-11.9	44.3	42.8	10.7
Hydroelectric.....	775	775	800	.4	5.7	5.8	4.4
Pumped Storage.....	260	260	260	.0	1.9	1.9	1.4
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>785</b>	<b>767</b>	<b>4,776</b>	<b>22.2</b>	<b>5.7</b>	<b>5.7</b>	<b>26.2</b>
Coal.....	434	434	391	-1.2	3.2	3.2	2.1
Petroleum.....	0	0	2	NM	.0	.0	*
Natural Gas.....	245	231	4,102	36.8	1.8	1.7	22.5
Other Gases.....	17	17	17	.0	.1	.1	.1
Dual Fired.....	13	9	10	-2.9	.1	.1	.1
Other Renewables.....	76	76	254	14.3	.6	.6	1.4
<b>Total Electric Industry</b> .....	<b>13,683</b>	<b>13,389</b>	<b>18,239</b>	<b>3.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,302	5,271	5,332	.1	38.7	39.4	29.2
Petroleum.....	30	28	37	2.4	.2	.2	.2
Natural Gas.....	1,103	1,164	9,522	27.1	8.1	8.7	52.2
Other Gases.....	69	72	78	1.4	.5	.5	.4
Dual Fired.....	6,068	5,743	1,955	-11.8	44.3	42.9	10.7
Hydroelectric.....	775	775	800	.4	5.7	5.8	4.4
Other Renewables.....	76	76	255	14.4	.6	.6	1.4
Pumped Storage.....	260	260	260	.0	1.9	1.9	1.4

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Oklahoma</b>							
<b>Electric Utilities</b> .....	<b>45,380,625</b>	<b>51,454,036</b>	<b>49,776,514</b>	<b>1.0</b>	<b>90.7</b>	<b>91.5</b>	<b>82.1</b>
Coal.....	27,453,911	31,026,837	34,200,128	2.5	54.8	55.2	56.4
Petroleum.....	11,456	7,541	111,555	28.8	*	*	.2
Natural Gas.....	15,450,623	16,999,645	13,872,606	-1.2	30.9	30.2	22.9
Hydroelectric.....	2,514,648	3,508,748	1,798,412	-3.7	5.0	6.2	3.0
Pumped Storage.....	-50,013	-88,735	-206,187	NM	-1	-2	-3
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>4,678,147</b>	<b>4,775,207</b>	<b>10,850,342</b>	<b>9.8</b>	<b>9.3</b>	<b>8.5</b>	<b>17.9</b>
Coal.....	3,046,936	3,197,193	2,476,198	-2.3	6.1	5.7	4.1
Petroleum.....	31,165	6,351	49,655	5.3	.1	*	.1
Natural Gas.....	1,258,259	1,301,773	7,950,090	22.7	2.5	2.3	13.1
Other Gases.....	70,396	49,819	45,408	-4.8	.1	.1	.1
Other Renewables.....	271,391	220,071	321,593	1.9	.5	.4	.5
Other.....	0	0	7,398	NM	.0	.0	*
<b>Total Electric Industry</b> .....	<b>50,058,772</b>	<b>56,229,243</b>	<b>60,626,856</b>	<b>2.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	30,500,847	34,224,030	36,676,326	2.1	60.9	60.9	60.5
Petroleum.....	42,621	13,892	161,210	15.9	.1	*	.3
Natural Gas.....	16,708,882	18,301,418	21,822,696	3.0	33.4	32.5	36.0
Other Gases.....	70,396	49,819	45,408	-4.8	.1	.1	.1
Hydroelectric.....	2,514,648	3,508,748	1,798,412	-3.7	5.0	6.2	3.0
Other Renewables.....	271,391	220,071	321,593	1.9	.5	.4	.5
Pumped Storage.....	-50,013	-88,735	-206,187	NM	-1	-2	-3
Other.....	0	0	7,398	NM	.0	.0	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Oklahoma</b>				
Coal (cents per million Btu).....	102.0	91.0	W	W
Average heat value (Btu per pound).....	8,573	8,651	8,872	0.4
Average sulfur Content (percent).....	.4	.3	.4	1.7
Petroleum (cents per million Btu).....	370.3	292.2	548.0	4.5
Average heat value (Btu per gallon).....	139,562	141,968	142,204	.2
Average sulfur Content (percent).....	.4	.1	.4	1.0
Natural Gas (cents per million Btu).....	266.7	241.2	542.0	8.2
Average heat value (Btu per cubic foot).....	1,034	1,030	1,030	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Oklahoma</b>				
Sulfur Dioxide				
Coal .....	97	168	106	1.0
Petroleum .....	*	*	1	36.6
Natural Gas .....	*	*	*	6.6
Other .....	2	*	3	.4
Total .....	99	169	110	1.1
Nitrogen Oxide				
Coal .....	143	72	66	-8.2
Petroleum .....	*	*	*	8.8
Gas .....	20	26	19	-8
Other .....	1	1	1	5.7
Total .....	164	99	86	-6.9
Carbon Dioxide				
Coal .....	31,202	34,746	36,910	1.9
Petroleum .....	131	40	265	8.1
Gas .....	9,385	10,504	11,346	2.1
Geothermal .....	—	—	—	NM
Other .....	—	*	—	NM
Total .....	40,719	45,291	48,521	2.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Oklahoma</b>							
Retail Sales (thousand megawatthours)							
Residential .....	16,128	19,511	20,162	2.5	39.2	40.7	40.0
Commercial .....	11,121	12,459	16,958	4.8	27.0	26.0	33.6
Industrial .....	11,721	13,175	13,308	1.4	28.5	27.5	26.4
Other .....	2,173	2,752	NA	NM	5.3	5.8	NA
Total .....	41,143	47,897	50,428	2.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,134	1,282	1,507	3.2	47.2	49.3	47.1
Commercial .....	677	705	1,083	5.4	28.2	27.1	33.8
Industrial .....	477	481	611	2.8	19.9	18.5	19.1
Other .....	115	134	NA	NM	4.8	5.1	NA
Total .....	2,402	2,602	3,201	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.03	6.57	7.47	.7	NA	NA	NA
Commercial .....	6.09	5.66	6.38	.5	NA	NA	NA
Industrial .....	4.07	3.65	4.59	1.3	NA	NA	NA
Other .....	5.29	4.88	NA	NM	NA	NA	NA
Total .....	5.84	5.43	6.35	.9	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Oklahoma</b>								
Number of Entities.....	4	62	1	30	1	NA	NA	98
Number of Retail Customers.....	1,179,570	189,346	1	436,446	79	NA	NA	1,805,442
Retail Sales (thousand megawatthours) .....	37,946	4,390	11	7,940	140	NA	NA	50,428
Percentage of Retail Sales .....	75.25	8.70	.02	15.75	.28	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	2,302	293	*	599	7	NA	NA	3,201
Percentage of Revenue.....	71.91	9.14	.01	18.71	.23	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.07	6.66	2.63	7.54	5.26	NA	NA	6.35

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Oregon</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Hydro
Net Summer Capability (megawatts).....	12,882	28
Electric Utilities .....	10,338	22
Independent Power Producers & Combined Heat and Power .....	2,545	30
Net Generation (megawatthours).....	48,966,139	28
Electric Utilities .....	38,577,937	28
Independent Power Producers & Combined Heat and Power .....	10,388,202	24
Emissions (thousand metric tons)		
Sulfur Dioxide .....	13	44
Nitrogen Oxide .....	12	43
Carbon Dioxide .....	8,765	41
Sulfur Dioxide (lbs/MWh).....	.6	47
Nitrogen Oxide (lbs/MWh).....	.5	49
Carbon Dioxide (lbs/MWh).....	395	48
Total Retail Sales (megawatthours).....	45,194,730	29
Full Service Provider Sales (megawatthours).....	45,194,730	29
Direct Use (megawatthours).....	690,673	32
Average Retail Price (cents/kWh).....	6.18	34

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Oregon</b>			
1. John Day.....	Hydro	USCE-North Pacific Division	2,484
2. The Dalles .....	Hydro	USCE-North Pacific Division	1,961
3. Bonneville.....	Hydro	USCE-North Pacific Division	1,212
4. McNary.....	Hydro	USCE-North Pacific Division	1,127
5. Hermiston Power Partnership .....	Gas	Hermiston Power Partnership	615
6. Boardman.....	Petroleum, Coal	Portland General Electric Co	556
7. Beaver.....	Petroleum, Gas	Portland General Electric Co	495
8. Hermiston Generating Plant.....	Gas	Hermiston Generating Co LP	470
9. Klamath Cogeneration Plant.....	Gas	Pacific Klamath Energy Inc	470
10. Hells Canyon .....	Hydro	Idaho Power Co	381

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Oregon</b>						
1. Portland General Electric Co .....	Investor-Owned	18,425,854	7,098,730	7,108,498	4,213,247	5,379
2. PacifiCorp .....	Investor-Owned	13,227,334	5,226,018	4,746,250	3,245,165	9,901
3. Eugene City of.....	Public	2,542,158	930,910	904,048	707,200	0
4. Central Lincoln People's Ut Dt.....	Public	1,239,578	391,292	198,303	649,983	0
5. Clatskanie Peoples Util Dist .....	Public	877,211	67,505	28,259	781,447	0
Total Sales, Top Five Providers.....		36,312,135	13,714,455	12,985,358	9,597,042	15,280
Percent of Total State Sales .....		80	77	84	80	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Oregon</b>							
<b>Electric Utilities</b> .....	<b>10,166</b>	<b>10,449</b>	<b>10,338</b>	<b>0.2</b>	<b>97.4</b>	<b>92.2</b>	<b>80.3</b>
Coal.....	508	528	556	1.0	4.9	4.7	4.3
Petroleum.....	3	0	0	NM	*	.0	.0
Natural Gas.....	148	354	34	-15.1	1.4	3.1	.3
Dual Fired.....	448	495	691	4.9	4.3	4.4	5.4
Hydroelectric.....	9,021	9,032	9,020	*	86.5	79.7	70.0
Other Renewables.....	38	40	37	-.3	.4	.4	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>265</b>	<b>884</b>	<b>2,545</b>	<b>28.6</b>	<b>2.5</b>	<b>7.8</b>	<b>19.8</b>
Coal.....	13	13	10	-2.9	.1	.1	.1
Natural Gas.....	1	584	2,049	133.3	*	5.2	15.9
Dual Fired.....	0	0	4	NM	.0	.0	*
Hydroelectric.....	109	96	92	-1.9	1.0	.8	.7
Other Renewables.....	142	191	390	11.9	1.4	1.7	3.0
<b>Total Electric Industry</b> .....	<b>10,433</b>	<b>11,334</b>	<b>12,882</b>	<b>2.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	521	541	566	.9	5.0	4.8	4.4
Petroleum.....	3	0	0	NM	*	.0	.0
Natural Gas.....	150	938	2,082	33.9	1.4	8.3	16.2
Dual Fired.....	448	495	695	5.0	4.3	4.4	5.4
Hydroelectric.....	9,131	9,128	9,112	*	87.5	80.5	70.7
Other Renewables.....	180	232	427	10.1	1.7	2.0	3.3

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Oregon</b>							
<b>Electric Utilities</b> .....	<b>37,490,089</b>	<b>46,352,310</b>	<b>38,577,937</b>	<b>0.3</b>	<b>97.5</b>	<b>90.6</b>	<b>78.8</b>
Coal.....	3,814,009	3,348,089	4,285,697	1.3	9.9	6.5	8.8
Petroleum.....	5,398	33,127	44,035	26.3	*	.1	.1
Natural Gas.....	2,754,774	3,466,916	1,232,518	-8.5	7.2	6.8	2.5
Hydroelectric.....	30,915,908	39,504,178	32,980,206	.7	80.4	77.2	67.4
Other Renewables.....	0	0	35,481	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>950,723</b>	<b>4,796,174</b>	<b>10,388,202</b>	<b>30.4</b>	<b>2.5</b>	<b>9.4</b>	<b>21.2</b>
Coal.....	19,461	26,533	19,151	-.2	.1	.1	*
Petroleum.....	1,898	505	61	-31.7	*	*	.0
Natural Gas.....	81,110	3,783,149	9,011,178	68.8	.2	7.4	18.4
Hydroelectric.....	304,390	397,989	270,126	-1.3	.8	.8	.6
Other Renewables.....	543,864	587,998	1,087,685	8.0	1.4	1.1	2.2
<b>Total Electric Industry</b> .....	<b>38,440,812</b>	<b>51,148,484</b>	<b>48,966,139</b>	<b>2.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	3,833,470	3,374,622	4,304,848	1.3	10.0	6.6	8.8
Petroleum.....	7,296	33,632	44,096	22.1	*	.1	.1
Natural Gas.....	2,835,884	7,250,065	10,243,696	15.3	7.4	14.2	20.9
Hydroelectric.....	31,220,298	39,902,167	33,250,332	.7	81.2	78.0	67.9
Other Renewables.....	543,864	587,998	1,123,166	8.4	1.4	1.1	2.3

See footnotes at end of tables.



**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Oregon</b>				
Coal (cents per million Btu).....	107.3	108.9	125.2	1.7
Average heat value (Btu per pound).....	8,937	8,685	8,516	-.5
Average sulfur Content (percent).....	.4	.3	.3	-2.8
Petroleum (cents per million Btu).....	465.4	331.9	787.5	6.0
Average heat value (Btu per gallon).....	139,000	140,000	138,490	*
Average sulfur Content (percent).....	.5	*	.2	-9.7
Natural Gas (cents per million Btu).....	183.0	154.1	437.0	10.2
Average heat value (Btu per cubic foot).....	1,011	1,011	1,022	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Oregon</b>				
<b>Sulfur Dioxide</b>				
Coal.....	15	13	12	-2.4
Petroleum.....	*	*	*	11.0
Natural Gas.....	*	*	*	13.0
Other.....	2	*	1	-8.0
Total.....	17	13	13	-2.9
<b>Nitrogen Oxide</b>				
Coal.....	16	8	9	-5.8
Petroleum.....	*	*	*	5.3
Gas.....	4	3	2	-8.6
Other.....	1	1	1	-1.1
Total.....	21	12	12	-5.9
<b>Carbon Dioxide</b>				
Coal.....	4,134	3,539	4,244	.3
Petroleum.....	23	27	42	7.2
Gas.....	1,669	3,281	4,409	11.4
Geothermal.....	—	—	—	NM
Other.....	20	20	69	15.1
Total.....	5,845	6,867	8,765	4.6

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Oregon</b>							
Retail Sales (thousand megawatthours)							
Residential.....	16,462	17,529	17,736	0.8	36.6	37.4	39.2
Commercial.....	12,660	14,324	15,483	2.3	28.1	30.5	34.3
Industrial.....	15,072	14,640	11,961	-2.5	33.5	31.2	26.5
Other.....	777	414	NA	NM	1.7	.9	NA
Transportation.....	NA	NA	15	NM	NA	NA	*
Total.....	44,971	46,907	45,195	.1	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	877	1,022	1,252	4.0	42.4	44.4	44.8
Commercial.....	629	722	988	5.1	30.4	31.4	35.3
Industrial.....	523	528	554	.6	25.3	23.0	19.8
Other.....	41	28	NA	NM	2.0	1.2	NA
Transportation.....	NA	NA	1	NM	NA	NA	*
Total.....	2,070	2,299	2,795	3.4	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	5.33	5.82	7.06	3.2	NA	NA	NA
Commercial.....	4.97	5.00	6.38	2.8	NA	NA	NA
Industrial.....	3.47	3.50	4.63	3.3	NA	NA	NA
Other.....	5.27	6.67	NA	NM	NA	NA	NA
Transportation.....	NA	NA	6.68	NM	NA	NA	NA
Total.....	4.60	4.90	6.18	3.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Oregon</b>								
Number of Entities.....	3	18	1	19	NA	NA	NA	41
Number of Retail Customers.....	1,282,670	273,235	2	183,752	NA	NA	NA	1,739,659
Retail Sales (thousand megawatthours).....	32,282	8,605	7	4,300	NA	NA	NA	45,195
Percentage of Retail Sales.....	71.43	19.04	.02	9.51	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	2,047	457	*	290	NA	NA	NA	2,795
Percentage of Revenue.....	73.25	16.36	.01	10.38	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.34	5.31	3.06	6.75	NA	NA	NA	6.18

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Pennsylvania</b>		
NERC Region(s).....		ECAR/MAAC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	42,368	5
Electric Utilities .....	4,921	34
Independent Power Producers & Combined Heat and Power .....	37,450	3
Net Generation (megawatthours).....	206,349,513	3
Electric Utilities .....	30,099,444	34
Independent Power Producers & Combined Heat and Power .....	176,250,070	3
Emissions (thousand metric tons)		
Sulfur Dioxide .....	912	2
Nitrogen Oxide .....	177	6
Carbon Dioxide .....	119,184	4
Sulfur Dioxide (lbs/MWh).....	9.7	8
Nitrogen Oxide (lbs/MWh).....	1.9	35
Carbon Dioxide (lbs/MWh).....	1,273	33
Total Retail Sales (megawatthours).....	140,369,128	6
Full Service Provider Sales (megawatthours).....	127,963,731	4
Deregulated Sales (megawatthours).....	12,405,397	5
Direct Use (megawatthours).....	4,478,416	8
Average Retail Price (cents/kWh).....	8.02	13

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Pennsylvania</b>			
1. Bruce Mansfield.....	Petroleum, Coal	Pennsylvania Power Co	2,360
2. Limerick.....	Nuclear	Exelon Generation Co LLC	2,268
3. PPL Susquehanna.....	Nuclear	PPL Susquehanna LLC	2,245
4. Peach Bottom.....	Nuclear	Exelon Generation Co LLC	2,224
5. PPL Martins Creek.....	Gas, Coal, Petroleum	PPL Martins Creek LLC	2,027
6. Homer City Station.....	Petroleum, Coal	Midwest Generations EME LLC	1,884
7. Conemaugh.....	Petroleum, Gas, Coal	Reliant Energy Mid-Atlantic PH	1,712
8. Keystone.....	Petroleum, Coal	Reliant Energy Mid-Atlantic PH	1,712
9. Beaver Valley.....	Nuclear	Pennsylvania Power Co	1,652
10. Hatfields Ferry Power Station.....	Petroleum, Coal	Allegheny Energy Supply Co LLC	1,590

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Pennsylvania</b>						
1. PECO Energy Co.....	Investor-Owned	33,707,980	11,358,161	6,875,226	14,761,733	712,860
2. PPL Electric Utilities Corp .....	Investor-Owned	33,635,019	13,330,312	11,392,332	8,912,375	0
3. West Penn Power Co.....	Investor-Owned	18,991,265	6,638,620	4,589,504	7,763,141	0
4. Pennsylvania Electric Co.....	Investor-Owned	12,105,298	4,126,961	4,702,138	3,276,199	0
5. Metropolitan Edison Co .....	Investor-Owned	11,121,666	4,884,373	3,890,871	2,346,422	0
Total Sales, Top Five Providers.....		109,561,228	40,338,427	31,450,071	37,059,870	712,860
Percent of Total State Sales .....		78	81	73	79	98

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Pennsylvania</b>							
<b>Electric Utilities</b> .....	<b>33,675</b>	<b>33,781</b>	<b>4,921</b>	<b>-19.2</b>	<b>93.2</b>	<b>92.4</b>	<b>11.6</b>
Coal.....	17,492	17,386	2,360	-20.0	48.4	47.6	5.6
Petroleum.....	4,121	2,391	0	NM	11.4	6.5	.0
Natural Gas.....	377	1,811	0	NM	1.0	5.0	.0
Dual Fired.....	965	1,188	30	-32.0	2.7	3.3	.1
Nuclear.....	8,788	9,035	1,652	-16.9	24.3	24.7	3.9
Hydroelectric.....	647	621	444	-4.1	1.8	1.7	1.0
Pumped Storage.....	1,285	1,349	435	-11.3	3.6	3.7	1.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,476</b>	<b>2,775</b>	<b>37,450</b>	<b>35.2</b>	<b>6.8</b>	<b>7.6</b>	<b>88.4</b>
Coal.....	1,335	1,515	15,778	31.6	3.7	4.1	37.2
Petroleum.....	15	23	2,283	74.8	*	.1	5.4
Natural Gas.....	237	401	4,063	37.1	.7	1.1	9.6
Other Gases.....	257	119	110	-9.0	.7	.3	.3
Dual Fired.....	264	318	5,738	40.8	.7	.9	13.5
Nuclear.....	0	0	7,523	NM	.0	.0	17.8
Hydroelectric.....	85	84	307	15.3	.2	.2	.7
Other Renewables.....	281	295	576	8.3	.8	.8	1.4
Pumped Storage.....	0	0	1,072	NM	.0	.0	2.5
Other.....	2	20	0	NM	*	.1	.0
<b>Total Electric Industry</b> .....	<b>36,151</b>	<b>36,556</b>	<b>42,368</b>	<b>1.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	18,827	18,901	18,137	-.4	52.1	51.7	42.8
Petroleum.....	4,136	2,414	2,283	-6.4	11.4	6.6	5.4
Natural Gas.....	614	2,212	4,062	23.4	1.7	6.1	9.6
Other Gases.....	257	119	110	-9.0	.7	.3	.3
Dual Fired.....	1,229	1,506	5,768	18.7	3.4	4.1	13.6
Nuclear.....	8,788	9,035	9,175	.5	24.3	24.7	21.7
Hydroelectric.....	732	705	751	.3	2.0	1.9	1.8
Other Renewables.....	281	295	575	8.3	.8	.8	1.4
Pumped Storage.....	1,285	1,349	1,507	1.8	3.6	3.7	3.6
Other.....	2	20	0	NM	*	.1	.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Pennsylvania</b>							
<b>Electric Utilities</b> .....	<b>169,029,050</b>	<b>173,903,236</b>	<b>30,099,444</b>	<b>-17.4</b>	<b>91.8</b>	<b>91.0</b>	<b>14.6</b>
Coal.....	93,951,561	106,516,740	15,944,113	-17.9	51.0	55.7	7.7
Petroleum.....	5,182,491	4,097,006	34,944	-42.6	2.8	2.1	*
Natural Gas.....	1,176,042	572,172	2,857	-48.8	.6	.3	*
Nuclear.....	67,206,815	61,149,224	12,619,098	-17.0	36.5	32.0	6.1
Hydroelectric.....	2,355,210	2,027,827	1,745,193	-3.3	1.3	1.1	.8
Pumped Storage.....	-843,069	-459,733	-246,761	NM	-5	-2	-1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>15,049,651</b>	<b>17,288,282</b>	<b>176,250,070</b>	<b>31.4</b>	<b>8.2</b>	<b>9.0</b>	<b>85.4</b>
Coal.....	7,916,029	9,870,415	100,065,761	32.6	4.3	5.2	48.5
Petroleum.....	641,818	409,723	4,500,393	24.2	.3	.2	2.2
Natural Gas.....	2,903,722	3,317,845	5,515,680	7.4	1.6	1.7	2.7
Other Gases.....	972,163	630,761	508,176	-7.0	.5	.3	.2
Nuclear.....	0	0	61,741,764	NM	.0	.0	29.9
Hydroelectric.....	394,575	353,525	1,601,074	16.8	.2	.2	.8
Other Renewables.....	2,138,621	2,665,241	2,809,456	3.1	1.2	1.4	1.4
Pumped Storage.....	0	0	-492,233	NM	.0	.0	-2
Other.....	82,723	40,772	0	NM	*	*	.0
<b>Total Electric Industry</b> .....	<b>184,078,701</b>	<b>191,191,518</b>	<b>206,349,513</b>	<b>1.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	101,867,590	116,387,155	116,009,874	1.5	55.3	60.9	56.2
Petroleum.....	5,824,309	4,506,729	4,535,337	-2.7	3.2	2.4	2.2
Natural Gas.....	4,079,764	3,890,017	5,518,537	3.4	2.2	2.0	2.7
Other Gases.....	972,163	630,761	508,176	-7.0	.5	.3	.2
Nuclear.....	67,206,815	61,149,224	74,360,862	1.1	36.5	32.0	36.0
Hydroelectric.....	2,749,785	2,381,352	3,346,267	2.2	1.5	1.2	1.6
Other Renewables.....	2,138,621	2,665,241	2,809,456	3.1	1.2	1.4	1.4
Pumped Storage.....	-843,069	-459,733	-738,994	NM	-5	-2	-4
Other.....	82,723	40,772	0	NM	*	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Pennsylvania</b>				
Coal (cents per million Btu).....	143.1	135.0	122.1	-1.7
Average heat value (Btu per pound).....	12,368	12,323	11,733	-6
Average sulfur Content (percent).....	2.1	2.2	1.9	-9
Petroleum (cents per million Btu).....	249.3	184.0	466.9	7.2
Average heat value (Btu per gallon).....	141,247	121,552	144,660	.3
Average sulfur Content (percent).....	1.1	2.1	1.3	1.8
Natural Gas (cents per million Btu).....	229.1	316.5	624.7	11.8
Average heat value (Btu per cubic foot).....	1,031	1,029	1,038	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Pennsylvania</b>				
Sulfur Dioxide				
Coal .....	1,097	1,010	890	-2.3
Petroleum .....	41	46	18	-8.6
Natural Gas .....	*	*	*	1.9
Other .....	3	1	3	.4
Total .....	1,142	1,058	912	-2.5
Nitrogen Oxide				
Coal .....	326	245	163	-7.4
Petroleum .....	11	8	5	-9.0
Gas .....	5	4	2	-8.3
Other .....	5	5	7	5.4
Total .....	347	262	177	-7.2
Carbon Dioxide				
Coal .....	97,775	110,090	110,511	1.4
Petroleum .....	6,287	5,201	4,438	-3.8
Gas .....	2,653	2,424	3,023	1.5
Geothermal .....	—	—	—	NM
Other .....	275	343	1,212	17.9
Total .....	106,989	118,059	119,184	1.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Pennsylvania</b>							
Retail Sales (thousand megawatthours)							
Residential .....	42,239	42,923	49,651	1.8	34.3	33.0	35.4
Commercial .....	33,395	37,246	43,218	2.9	27.1	28.6	30.8
Industrial .....	46,076	48,815	46,773	.2	37.4	37.5	33.3
Other .....	1,336	1,223	NA	NM	1.1	.9	NA
Transportation .....	NA	NA	727	NM	NA	NA	.5
Total .....	123,045	130,206	140,369	1.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	4,035	4,235	4,760	1.8	41.7	41.6	42.3
Commercial .....	2,765	3,068	3,724	3.4	28.5	30.1	33.1
Industrial .....	2,733	2,735	2,715	-1	28.2	26.8	24.1
Other .....	153	152	NA	NM	1.6	1.5	NA
Transportation .....	NA	NA	57	NM	NA	NA	.5
Total .....	9,686	10,190	11,256	1.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	9.55	9.93	9.59	*	NA	NA	NA
Commercial .....	8.28	8.26	8.62	.4	NA	NA	NA
Industrial .....	5.93	5.63	5.80	-.3	NA	NA	NA
Other .....	11.43	12.45	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.78	NM	NA	NA	NA
Total .....	7.87	7.86	8.02	.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	17	9	85
Number of Retail Customers.....	5,161,605	83,030	NA	207,495	NA	295,723	NA	5,747,853
Retail Sales (thousand megawatthours) .....	124,164	1,419	NA	2,381	NA	12,405	NA	140,369
Percentage of Retail Sales .....	88.46	1.01	NA	1.70	NA	8.84	NA	100.00
Revenue from Retail Sales (million dollars) .....	9,863	115	NA	246	NA	666	366	11,256
Percentage of Revenue.....	87.63	1.02	NA	2.18	NA	5.92	3.25	100.00
Average Retail Price (cents/kWh).....	7.94	8.10	NA	10.32	NA	5.37	2.95	8.02

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Rhode Island</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	1,733	49
Electric Utilities .....	8	50
Independent Power Producers & Combined Heat and Power .....	1,725	34
Net Generation (megawatthours) .....	5,621,145	50
Electric Utilities .....	11,771	49
Independent Power Producers & Combined Heat and Power .....	5,609,374	32
Emissions (thousand metric tons)		
Sulfur Dioxide .....	1	49
Nitrogen Oxide.....	1	49
Carbon Dioxide .....	2,398	48
Sulfur Dioxide (lbs/MWh).....	.3	49
Nitrogen Oxide (lbs/MWh).....	.3	50
Carbon Dioxide (lbs/MWh).....	940	40
Total Retail Sales (megawatthours) .....	7,796,626	49
Full Service Provider Sales (megawatthours).....	7,096,649	47
Deregulated Sales (megawatthours) .....	699,977	15
Direct Use (megawatthours).....	64,968	48
Average Retail Price (cents/kWh).....	10.47	8

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Rhode Island</b>			
1. Rhode Island State Energy Partners.....	Gas	FPL Energy Operating Serv Inc	515
2. Manchester Street.....	Gas	U S Gen New England Inc	421
3. Tiverton Power Plant .....	Gas	Calpine Eastern Corp	250
4. Ocean State Power .....	Gas	Ocean State Power Co	219
5. Ocean State Power II.....	Gas	Ocean State Power II	219
6. Pawtucket Power Associates.....	Gas, Petroleum	Pawtucket Power Associates LP	64
7. Ridgewood Providence Power.....	Other	Ridgewood Power Management LLC	15
8. Rhode Island Hospital.....	Gas, Petroleum	Rhode Island Hospital	10
9. Block Island.....	Petroleum	Block Island Power Co	7
10. Central Power Plant.....	Gas, Petroleum	State of Rhode Island	5

See footnotes at end of tables.



**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Rhode Island</b>						
1. Narragansett Electric Co .....	Investor-Owned	7,038,221	2,962,804	3,113,097	962,320	0
2. TransCanada Power Mktg Ltd .....	Power Marketer	297,907	0	0	297,907	0
3. Select Energy .....	Power Marketer	217,853	0	213,361	4,492	0
4. Constellation NewEnergy, Inc .....	Power Marketer	184,217	0	184,217	0	0
5. Pascoag Utility District .....	Public	50,777	28,054	5,745	16,978	0
Total Sales, Top Five Providers.....		7,788,975	2,990,858	3,516,420	1,281,697	0
Percent of Total State Sales .....		100	100	100	98	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Rhode Island</b>							
<b>Electric Utilities</b> .....	<b>147</b>	<b>6</b>	<b>8</b>	<b>-27.6</b>	<b>21.5</b>	<b>0.6</b>	<b>0.5</b>
Petroleum.....	62	5	7	-21.5	9.1	.5	.4
Dual Fired.....	84	0	0	NM	12.3	.0	.0
Hydroelectric .....	1	1	1	.0	.1	.1	.1
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>538</b>	<b>950</b>	<b>1,725</b>	<b>13.8</b>	<b>78.5</b>	<b>99.3</b>	<b>99.5</b>
Petroleum.....	0	0	5	NM	.0	.0	.3
Natural Gas.....	0	1	917	NM	.0	.1	52.9
Dual Fired.....	522	931	785	4.6	76.2	97.3	45.3
Hydroelectric .....	3	3	3	.0	.4	.3	.2
Other Renewables .....	13	15	15	1.6	1.9	1.6	.9
<b>Total Electric Industry</b> .....	<b>685</b>	<b>957</b>	<b>1,733</b>	<b>10.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	62	5	12	-16.7	9.1	.5	.7
Natural Gas.....	0	1	917	NM	.0	.1	52.9
Dual Fired.....	606	932	785	2.9	88.5	97.4	45.3
Hydroelectric .....	4	4	4	.0	.6	.4	.2
Other Renewables .....	13	15	15	1.6	1.9	1.6	.9

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Rhode Island</b>							
<b>Electric Utilities</b> .....	<b>68,641</b>	<b>2,061,351</b>	<b>11,771</b>	<b>-17.8</b>	<b>1.4</b>	<b>26.9</b>	<b>0.2</b>
Petroleum.....	33,836	8,827	11,771	-11.1	.7	.1	.2
Natural Gas.....	34,805	2,052,524	0	NM	.7	26.7	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>4,664,279</b>	<b>5,613,160</b>	<b>5,609,373</b>	<b>2.1</b>	<b>98.5</b>	<b>73.1</b>	<b>99.8</b>
Petroleum.....	51,511	69,479	46,588	-1.1	1.1	.9	.8
Natural Gas.....	4,525,874	5,423,850	5,454,996	2.1	95.6	70.7	97.0
Other Gases.....	1,862	0	0	NM	*	.0	.0
Hydroelectric.....	9,349	8,676	6,021	-4.8	.2	.1	.1
Other Renewables.....	75,683	111,155	101,768	3.3	1.6	1.4	1.8
<b>Total Electric Industry</b> .....	<b>4,732,920</b>	<b>7,674,511</b>	<b>5,621,145</b>	<b>1.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	85,347	78,306	58,359	-4.1	1.8	1.0	1.0
Natural Gas.....	4,560,679	7,476,374	5,454,996	2.0	96.4	97.4	97.0
Other Gases.....	1,862	0	0	NM	*	.0	.0
Hydroelectric.....	9,349	8,676	6,021	-4.8	.2	.1	.1
Other Renewables.....	75,683	111,155	101,768	3.3	1.6	1.4	1.8

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Rhode Island</b>				
Petroleum (cents per million Btu).....	253.5	0.0	W	W
Average heat value (Btu per gallon).....	151,317	0	140,565	-0.8
Average sulfur Content (percent).....	1.0	.0	.1	-19.4
Natural Gas (cents per million Btu).....	222.5	328.5	650.3	12.7
Average heat value (Btu per cubic foot).....	1,029	1,028	1,033	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Rhode Island</b>				
Sulfur Dioxide				
Coal .....	—	—	—	NM
Petroleum .....	1	2	1	-1.2
Natural Gas .....	*	*	*	5.4
Other .....	—	—	—	NM
Total .....	1	2	1	-1.0
Nitrogen Oxide				
Coal .....	—	—	—	NM
Petroleum .....	*	1	*	-2.6
Gas .....	2	4	*	-13.9
Other .....	*	1	*	-16.4
Total .....	2	5	1	-11.9
Carbon Dioxide				
Coal .....	—	—	—	NM
Petroleum .....	187	349	128	-4.1
Gas .....	2,128	3,258	2,270	.7
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	2,315	3,606	2,398	.4

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Rhode Island</b>							
Retail Sales (thousand megawatthours)							
Residential .....	2,457	2,522	2,998	2.2	37.4	36.6	38.4
Commercial .....	2,563	2,731	3,490	3.5	39.0	39.6	44.8
Industrial .....	1,378	1,458	1,309	-6	21.0	21.2	16.8
Other .....	174	177	NA	NM	2.6	2.6	NA
Total .....	6,572	6,888	7,797	1.9	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	277	275	348	2.6	41.2	41.7	42.6
Commercial .....	255	253	352	3.6	37.9	38.4	43.1
Industrial .....	122	110	116	-6	18.1	16.7	14.2
Other .....	20	20	NA	NM	3.0	3.0	NA
Total .....	673	659	816	2.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	11.26	10.91	11.61	.3	NA	NA	NA
Commercial .....	9.95	9.26	10.09	.2	NA	NA	NA
Industrial .....	8.86	7.61	8.88	*	NA	NA	NA
Other .....	11.23	11.51	NA	NM	NA	NA	NA
Total .....	10.24	9.58	10.47	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	3	2	8
Number of Retail Customers.....	466,805	4,525	NA	NA	NA	4,986	NA	476,316
Retail Sales (thousand megawatthours) .....	7,046	51	NA	NA	NA	700	NA	7,797
Percentage of Retail Sales .....	90.37	.65	NA	NA	NA	8.98	NA	100.00
Revenue from Retail Sales (million dollars) .....	750	5	NA	NA	NA	34	27	816
Percentage of Revenue.....	91.88	.59	NA	NA	NA	4.16	3.36	100.00
Average Retail Price (cents/kWh).....	10.65	9.51	NA	NA	NA	4.86	3.92	10.47

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

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Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>South Carolina</b>		
NERC Region(s).....		SERC
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	20,658	18
Electric Utilities .....	19,402	11
Independent Power Producers & Combined Heat and Power .....	1,257	38
Net Generation (megawatthours).....	93,772,677	17
Electric Utilities .....	91,544,429	8
Independent Power Producers & Combined Heat and Power .....	2,228,249	41
Emissions (thousand metric tons)		
Sulfur Dioxide .....	207	19
Nitrogen Oxide .....	78	25
Carbon Dioxide .....	36,658	27
Sulfur Dioxide (lbs/MWh).....	4.9	21
Nitrogen Oxide (lbs/MWh).....	1.8	37
Carbon Dioxide (lbs/MWh).....	862	43
Total Retail Sales (megawatthours).....	77,054,098	18
Full Service Provider Sales (megawatthours).....	77,054,098	17
Direct Use (megawatthours).....	2,041,837	22
Average Retail Price (cents/kWh).....	6.08	37

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>South Carolina</b>			
1. Oconee.....	Nuclear	Duke Energy Corp	2,538
2. Catawba .....	Nuclear	Duke Energy Corp	2,258
3. Cross .....	Petroleum, Coal	South Carolina Pub Serv Auth	1,160
4. Winyah.....	Petroleum, Coal	South Carolina Pub Serv Auth	1,155
5. Bad Creek.....	Hydro	Duke Energy Corp	1,065
6. V C Summer .....	Nuclear	South Carolina Electric&Gas Co	966
7. H B Robinson.....	Petroleum, Coal, Nuclear	Carolina Power & Light Co	899
8. Darlington County.....	Gas, Petroleum	Carolina Power & Light Co	812
9. Broad River Energy Center .....	Petroleum, Gas	Broad River Energy LLC	797
10. John S Rainey.....	Petroleum, Gas	South Carolina Pub Serv Auth	744

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>South Carolina</b>						
1. Duke Energy Corp.....	Investor-Owned	20,738,323	5,693,569	5,172,087	9,872,667	0
2. South Carolina Electric&Gas Co .....	Investor-Owned	20,668,054	6,998,139	7,122,007	6,547,908	0
3. South Carolina Pub Serv Auth.....	Public	11,242,792	1,464,246	1,799,970	7,978,576	0
4. Carolina Power & Light Co.....	Investor-Owned	7,069,657	2,061,811	1,784,958	3,222,888	0
5. Berkeley Electric Coop Inc.....	Cooperative	1,412,332	1,068,796	166,685	176,851	0
Total Sales, Top Five Providers.....		61,131,158	17,286,561	16,045,707	27,798,890	0
Percent of Total State Sales .....		79	65	83	89	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>South Carolina</b>							
<b>Electric Utilities</b> .....	<b>16,691</b>	<b>17,627</b>	<b>19,402</b>	<b>1.7</b>	<b>97.4</b>	<b>97.3</b>	<b>93.9</b>
Coal.....	5,352	6,007	5,925	1.1	31.2	33.2	28.7
Petroleum.....	287	671	684	10.1	1.7	3.7	3.3
Natural Gas.....	18	18	760	51.6	.1	.1	3.7
Other Gases.....	364	0	0	NM	2.1	.0	.0
Dual Fired.....	858	1,050	1,963	9.6	5.0	5.8	9.5
Nuclear.....	6,364	6,431	6,472	.2	37.1	35.5	31.3
Hydroelectric.....	1,261	1,263	1,360	.8	7.4	7.0	6.6
Other Renewables.....	0	0	3	NM	.0	.0	*
Pumped Storage.....	2,187	2,187	2,235	.2	12.8	12.1	10.8
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>452</b>	<b>490</b>	<b>1,257</b>	<b>12.0</b>	<b>2.6</b>	<b>2.7</b>	<b>6.1</b>
Coal.....	189	131	103	-6.5	1.1	.7	.5
Petroleum.....	1	3	3	13.0	*	*	*
Natural Gas.....	1	102	95	65.9	*	.6	.5
Dual Fired.....	3	3	800	86.0	*	*	3.9
Hydroelectric.....	18	18	24	3.2	.1	.1	.1
Other Renewables.....	240	233	232	-4	1.4	1.3	1.1
<b>Total Electric Industry</b> .....	<b>17,144</b>	<b>18,117</b>	<b>20,658</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,541	6,138	6,028	.9	32.3	33.9	29.2
Petroleum.....	288	674	686	10.1	1.7	3.7	3.3
Natural Gas.....	19	121	855	52.6	.1	.7	4.1
Other Gases.....	364	0	0	NM	2.1	.0	.0
Dual Fired.....	862	1,053	2,763	13.8	5.0	5.8	13.4
Nuclear.....	6,364	6,431	6,472	.2	37.1	35.5	31.3
Hydroelectric.....	1,279	1,281	1,384	.9	7.5	7.1	6.7
Other Renewables.....	240	232	235	-.2	1.4	1.3	1.1
Pumped Storage.....	2,187	2,187	2,235	.2	12.8	12.1	10.8

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>South Carolina</b>							
<b>Electric Utilities</b> .....	<b>74,193,685</b>	<b>84,396,897</b>	<b>91,544,429</b>	<b>2.4</b>	<b>96.4</b>	<b>96.7</b>	<b>97.6</b>
Coal.....	26,993,543	32,377,814	37,065,509	3.6	35.1	37.1	39.5
Petroleum.....	108,250	331,357	289,474	11.5	.1	.4	.3
Natural Gas.....	278,698	414,900	1,365,534	19.3	.4	.5	1.5
Nuclear.....	44,466,176	48,759,447	50,417,690	1.4	57.8	55.9	53.8
Hydroelectric.....	2,967,874	3,503,249	3,590,944	2.1	3.9	4.0	3.8
Other Renewables.....	0	0	22,091	NM	.0	.0	*
Pumped Storage.....	-620,856	-989,870	-1,206,813	NM	-8	-1.1	-1.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,748,837</b>	<b>2,849,664</b>	<b>2,228,249</b>	<b>-2.3</b>	<b>3.6</b>	<b>3.3</b>	<b>2.4</b>
Coal.....	747,572	591,885	366,514	-7.6	1.0	.7	.4
Petroleum.....	132,494	120,306	167,397	2.6	.2	.1	.2
Natural Gas.....	85,002	462,565	297,248	14.9	.1	.5	.3
Other Gases.....	17,368	92	73	-45.6	*	.0	.0
Hydroelectric.....	67,078	66,168	74,482	1.2	.1	.1	.1
Other Renewables.....	1,694,529	1,604,202	1,322,535	-2.7	2.2	1.8	1.4
Other.....	4,794	4,446	0	NM	*	*	.0
<b>Total Electric Industry</b> .....	<b>76,942,522</b>	<b>87,246,561</b>	<b>93,772,677</b>	<b>2.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	27,741,115	32,969,699	37,432,023	3.4	36.1	37.8	39.9
Petroleum.....	240,744	451,663	456,871	7.4	.3	.5	.5
Natural Gas.....	363,700	877,465	1,662,782	18.4	.5	1.0	1.8
Other Gases.....	17,368	92	73	-45.6	*	.0	.0
Nuclear.....	44,466,176	48,759,447	50,417,690	1.4	57.8	55.9	53.8
Hydroelectric.....	3,034,952	3,569,417	3,665,426	2.1	3.9	4.1	3.9
Other Renewables.....	1,694,529	1,604,202	1,344,626	-2.5	2.2	1.8	1.4
Pumped Storage.....	-620,856	-989,870	-1,206,813	NM	-8	-1.1	-1.3
Other.....	4,794	4,446	0	NM	*	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>South Carolina</b>				
Coal (cents per million Btu).....	156.0	144.7	W	W
Average heat value (Btu per pound).....	12,771	12,805	12,669	-0.1
Average sulfur Content (percent).....	1.2	1.2	1.1	-1.1
Petroleum (cents per million Btu).....	409.7	327.6	W	W
Average heat value (Btu per gallon).....	138,152	138,122	144,989	.5
Average sulfur Content (percent).....	.2	.2	1.7	25.1
Natural Gas (cents per million Btu).....	167.1	353.4	W	W
Average heat value (Btu per cubic foot).....	1,023	1,024	1,031	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>South Carolina</b>				
Sulfur Dioxide				
Coal .....	187	189	197	0.6
Petroleum .....	*	2	3	25.6
Natural Gas .....	—	*	—	NM
Other .....	11	6	8	-3.7
Total .....	198	197	207	.5
Nitrogen Oxide				
Coal .....	103	95	74	-3.6
Petroleum .....	1	1	*	-4.3
Gas .....	1	1	1	.4
Other .....	3	3	2	-2.8
Total .....	107	99	78	-3.5
Carbon Dioxide				
Coal .....	26,807	31,423	35,074	3.0
Petroleum .....	550	801	652	1.9
Gas .....	226	654	754	14.3
Geothermal .....	—	—	—	NM
Other .....	26	28	179	23.8
Total .....	27,609	32,906	36,658	3.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>South Carolina</b>							
Retail Sales (thousand megawatthours)							
Residential .....	19,903	23,558	26,422	3.2	32.2	32.5	34.3
Commercial .....	13,393	16,370	19,336	4.2	21.6	22.6	25.1
Industrial .....	27,760	31,606	31,296	1.3	44.9	43.6	40.6
Other .....	802	920	NA	NM	1.3	1.3	NA
Total .....	61,858	72,454	77,054	2.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,492	1,767	2,117	4.0	42.5	44.1	45.2
Commercial .....	853	1,021	1,316	4.9	24.3	25.5	28.1
Industrial .....	1,118	1,165	1,251	1.3	31.9	29.1	26.7
Other .....	47	55	NA	NM	1.3	1.4	NA
Total .....	3,509	4,008	4,684	3.3	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.49	7.50	8.01	.8	NA	NA	NA
Commercial .....	6.37	6.24	6.81	.7	NA	NA	NA
Industrial .....	4.03	3.69	4.00	-.1	NA	NA	NA
Other .....	5.84	5.99	NA	NM	NA	NA	NA
Total .....	5.67	5.53	6.08	.8	NA	NA	NA

See footnotes at end of tables.



**Table 9. Retail Electricity Sales Statistics, 2003**

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.....	1,235,618	296,305	NA	645,551	NA	NA	NA	2,177,474
Retail Sales (thousand megawatthours) .....	48,675	15,043	NA	13,335	NA	NA	NA	77,054
Percentage of Retail Sales .....	63.17	19.52	NA	17.31	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	2,921	769	NA	994	NA	NA	NA	4,684
Percentage of Revenue.....	62.35	16.42	NA	21.23	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.00	5.11	NA	7.46	NA	NA	NA	6.08

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>South Dakota</b>		
NERC Region(s).....		WECC/MAPP
Primary Energy Source .....		Hydro
Net Summer Capability (megawatts).....	2,690	46
Electric Utilities .....	2,650	37
Independent Power Producers & Combined Heat and Power .....	41	50
Net Generation (megawatthours).....	7,943,837	46
Electric Utilities .....	7,904,755	37
Independent Power Producers & Combined Heat and Power .....	39,082	51
Emissions (thousand metric tons)		
Sulfur Dioxide .....	12	45
Nitrogen Oxide.....	15	40
Carbon Dioxide.....	3,649	47
Sulfur Dioxide (lbs/MWh).....	3.3	36
Nitrogen Oxide (lbs/MWh).....	4.2	7
Carbon Dioxide (lbs/MWh).....	1,013	39
Total Retail Sales (megawatthours).....	9,079,990	48
Full Service Provider Sales (megawatthours).....	9,079,990	46
Average Retail Price (cents/kWh).....	6.35	29

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>South Dakota</b>			
1. Oahe.....	Hydro	USCE-Missouri River District	674
2. Big Bend.....	Hydro	USCE-Missouri River District	520
3. Big Stone.....	Petroleum, Coal	Otter Tail Power Co	455
4. Fort Randall.....	Hydro	USCE-Missouri River District	355
5. Angus Anson.....	Petroleum, Gas	Northern States Power Co	215
6. Ben French.....	Petroleum, Gas, Coal	Black Hills Corp	100
7. Spirit Mound.....	Petroleum	Basin Electric Power Coop	96
8. Huron.....	Gas	Northwestern Public Service Co	55
9. Watertown Power Plant.....	Petroleum	Missouri Basin Mun Pwr Agency	51
10. Lake Preston.....	Petroleum	Otter Tail Power Co	41

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>South Dakota</b>						
1. Northern States Power Co.....	Investor-Owned	1,657,423	549,483	792,481	315,459	0
2. Black Hills Corp.....	Investor-Owned	1,378,786	445,423	647,790	285,573	0
3. Northwestern Public Service Co.....	Investor-Owned	1,192,772	453,143	551,508	188,121	0
4. Sioux Valley SW Elec Coop.....	Cooperative	348,809	209,846	83,239	55,724	0
5. Otter Tail Power Co.....	Investor-Owned	316,782	104,825	211,957	0	0
Total Sales, Top Five Providers.....		4,894,572	1,762,720	2,286,975	844,877	0
Percent of Total State Sales.....		54	47	62	52	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>South Dakota</b>							
<b>Electric Utilities</b> .....	<b>2,965</b>	<b>2,922</b>	<b>2,650</b>	<b>-1.2</b>	<b>100.0</b>	<b>100.0</b>	<b>98.5</b>
Coal.....	488	477	476	-.3	16.5	16.3	17.7
Petroleum.....	223	208	237	.7	7.5	7.1	8.8
Natural Gas.....	296	293	34	-21.4	10.0	10.0	1.3
Dual Fired.....	138	138	351	10.9	4.7	4.7	13.0
Hydroelectric.....	1,820	1,806	1,549	-1.8	61.4	61.8	57.6
Other Renewables.....	0	0	3	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>0</b>	<b>0</b>	<b>41</b>	<b>NM</b>	<b>.0</b>	<b>.0</b>	<b>1.5</b>
Other Renewables.....	0	0	41	NM	.0	.0	1.5
<b>Total Electric Industry</b> .....	<b>2,965</b>	<b>2,922</b>	<b>2,690</b>	<b>-1.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	488	477	476	-.3	16.5	16.3	17.7
Petroleum.....	223	208	237	.7	7.5	7.1	8.8
Natural Gas.....	296	293	34	-21.4	10.0	10.0	1.3
Dual Fired.....	138	138	351	10.9	4.7	4.7	13.0
Hydroelectric.....	1,820	1,806	1,549	-1.8	61.4	61.8	57.6
Other Renewables.....	0	0	43	NM	.0	.0	1.6

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>South Dakota</b>							
<b>Electric Utilities</b> .....	<b>7,991,260</b>	<b>9,088,990</b>	<b>7,904,755</b>	<b>-0.1</b>	<b>100.0</b>	<b>100.0</b>	<b>99.5</b>
Coal.....	2,833,332	3,094,113	3,431,203	2.1	35.5	34.0	43.2
Petroleum.....	20,731	26,551	16,058	-2.8	.3	.3	.2
Natural Gas.....	8,437	210,726	176,024	40.2	.1	2.3	2.2
Hydroelectric.....	5,128,760	5,757,600	4,276,303	-2.0	64.2	63.3	53.8
Other Renewables.....	0	0	5,167	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>0</b>	<b>0</b>	<b>39,082</b>	<b>NM</b>	<b>.0</b>	<b>.0</b>	<b>.5</b>
Other Renewables.....	0	0	39,082	NM	.0	.0	.5
<b>Total Electric Industry</b> .....	<b>7,991,260</b>	<b>9,088,990</b>	<b>7,943,837</b>	<b>-.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,833,332	3,094,113	3,431,203	2.1	35.5	34.0	43.2
Petroleum.....	20,731	26,551	16,058	-2.8	.3	.3	.2
Natural Gas.....	8,437	210,726	176,024	40.2	.1	2.3	2.2
Hydroelectric.....	5,128,760	5,757,600	4,276,303	-2.0	64.2	63.3	53.8
Other Renewables.....	0	0	44,249	NM	.0	.0	.6

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>South Dakota</b>				
Coal (cents per million Btu).....	108.3	92.7	134.3	2.4
Average heat value (Btu per pound).....	6,049	8,728	8,560	3.9
Average sulfur Content (percent).....	.9	.7	.3	-10.7
Petroleum (cents per million Btu).....	.0	.0	803.6	NM
Average heat value (Btu per gallon).....	0	0	138,211	NM
Average sulfur Content (percent).....	.0	.0	.2	NM
Natural Gas (cents per million Btu).....	272.3	176.7	.0	NM
Average heat value (Btu per cubic foot).....	972	1,000	0	NM

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>South Dakota</b>				
<b>Sulfur Dioxide</b>				
Coal .....	30	19	11	-10.3
Petroleum .....	*	*	*	16.7
Natural Gas .....	—	—	—	NM
Other.....	*	*	*	46.1
Total .....	30	19	12	-9.9
<b>Nitrogen Oxide</b>				
Coal .....	10	22	15	4.8
Petroleum .....	—	*	*	NM
Gas.....	*	*	*	17.3
Other.....	*	*	*	33.0
Total .....	10	22	15	5.0
<b>Carbon Dioxide</b>				
Coal .....	3,253	3,196	3,516	.9
Petroleum .....	21	28	18	-1.5
Gas.....	8	154	115	33.6
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total .....	3,282	3,378	3,649	1.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>South Dakota</b>							
Retail Sales (thousand megawatthours)							
Residential.....	3,147	3,303	3,740	1.9	43.9	42.2	41.2
Commercial.....	1,919	2,263	3,713	7.6	26.8	28.9	40.9
Industrial.....	1,762	1,868	1,627	-9	24.6	23.9	17.9
Other.....	346	390	NA	NM	4.8	5.0	NA
Total.....	7,174	7,824	9,080	2.6	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	222	240	280	2.6	50.0	49.1	48.5
Commercial.....	127	150	224	6.5	28.6	30.7	38.8
Industrial.....	79	83	73	-9	17.8	17.0	12.6
Other.....	16	17	NA	NM	3.6	3.5	NA
Total.....	444	489	577	2.9	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	7.06	7.27	7.47	.6	NA	NA	NA
Commercial.....	6.60	6.62	6.04	-1.0	NA	NA	NA
Industrial.....	4.51	4.44	4.51	.0	NA	NA	NA
Other.....	4.62	4.28	NA	NM	NA	NA	NA
Total.....	6.19	6.26	6.35	.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

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	30	NA	NA	NA	72
Number of Retail Customers.....	212,384	55,453	18	132,379	NA	NA	NA	400,234
Retail Sales (thousand megawatthours).....	4,814	1,311	302	2,652	NA	NA	NA	9,080
Percentage of Retail Sales.....	53.02	14.44	3.33	29.21	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	323	67	4	183	NA	NA	NA	577
Percentage of Revenue.....	55.98	11.59	.75	31.68	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.71	5.10	1.43	6.89	NA	NA	NA	6.35

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Tennessee</b>		
NERC Region(s).....		ECAR/SERC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	20,893	17
Electric Utilities .....	19,234	12
Independent Power Producers & Combined Heat and Power .....	1,659	35
Net Generation (megawatthours).....	92,221,791	18
Electric Utilities .....	88,678,127	9
Independent Power Producers & Combined Heat and Power .....	3,543,664	38
Emissions (thousand metric tons)		
Sulfur Dioxide .....	344	13
Nitrogen Oxide.....	129	13
Carbon Dioxide.....	55,820	17
Sulfur Dioxide (lbs/MWh).....	8.2	12
Nitrogen Oxide (lbs/MWh).....	3.1	21
Carbon Dioxide (lbs/MWh).....	1,334	29
Total Retail Sales (megawatthours).....	97,455,808	13
Full Service Provider Sales (megawatthours).....	97,455,808	13
Direct Use (megawatthours).....	3,389,262	13
Average Retail Price (cents/kWh).....	5.84	42

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Tennessee</b>			
1. Cumberland .....	Petroleum, Coal	Tennessee Valley Authority	2,465
2. Johnsonville.....	Petroleum, Gas, Coal	Tennessee Valley Authority	2,330
3. Sequoyah .....	Nuclear	Tennessee Valley Authority	2,277
4. Raccoon Mountain .....	Hydro	Tennessee Valley Authority	1,652
5. Gallatin .....	Petroleum, Gas, Coal	Tennessee Valley Authority	1,572
6. Kingston.....	Petroleum, Coal	Tennessee Valley Authority	1,428
7. Allen Steam Plant .....	Petroleum, Coal	Tennessee Valley Authority	1,197
8. Watts Bar Nuclear Plant .....	Nuclear	Tennessee Valley Authority	1,121
9. Lagoon Creek .....	Petroleum, Gas	Tennessee Valley Authority	952
10. Bull Run.....	Petroleum, Coal	Tennessee Valley Authority	865

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Tennessee</b>						
1. Memphis City of.....	Public	13,613,642	5,155,614	4,664,215	3,793,813	0
2. Nashville Electric Service .....	Public	11,949,165	4,393,945	4,419,359	3,135,861	0
3. Tennessee Valley Authority .....	Federal	8,169,012	0	0	8,169,012	0
4. Chattanooga City of.....	Public	5,567,368	1,969,556	1,842,175	1,755,637	0
5. Knoxville Utilities Board .....	Public	5,547,302	2,350,687	1,794,683	1,401,932	0
Total Sales, Top Five Providers.....		44,846,489	13,869,802	12,720,432	18,256,255	0
Percent of Total State Sales .....		46	37	46	57	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Tennessee</b>							
<b>Electric Utilities</b> .....	<b>16,482</b>	<b>17,546</b>	<b>19,234</b>	<b>1.7</b>	<b>96.3</b>	<b>96.5</b>	<b>92.1</b>
Coal.....	8,615	8,604	8,609	*	50.3	47.3	41.2
Petroleum.....	0	0	56	NM	.0	.0	.3
Dual Fired.....	1,982	1,823	3,128	5.2	11.6	10.0	15.0
Nuclear.....	2,217	3,357	3,398	4.9	13.0	18.5	16.3
Hydroelectric.....	2,136	2,230	2,389	1.3	12.5	12.3	11.4
Other Renewables.....	0	0	2	NM	.0	.0	*
Pumped Storage.....	1,532	1,532	1,652	.8	9.0	8.4	7.9
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>630</b>	<b>629</b>	<b>1,659</b>	<b>11.4</b>	<b>3.7</b>	<b>3.5</b>	<b>7.9</b>
Coal.....	324	362	276	-1.8	1.9	2.0	1.3
Natural Gas.....	28	36	1,034	49.3	.2	.2	4.9
Dual Fired.....	0	4	72	NM	.0	*	.3
Hydroelectric.....	170	170	165	-.3	1.0	.9	.8
Other Renewables.....	70	19	112	5.4	.4	.1	.5
Other.....	38	38	0	NM	.2	.2	.0
<b>Total Electric Industry</b> .....	<b>17,112</b>	<b>18,175</b>	<b>20,893</b>	<b>2.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	8,939	8,966	8,885	-.1	52.2	49.3	42.5
Petroleum.....	0	0	56	NM	.0	.0	.3
Natural Gas.....	28	36	1,034	49.3	.2	.2	4.9
Dual Fired.....	1,982	1,827	3,200	5.5	11.6	10.1	15.3
Nuclear.....	2,217	3,357	3,398	4.9	13.0	18.5	16.3
Hydroelectric.....	2,306	2,400	2,554	1.1	13.5	13.2	12.2
Other Renewables.....	70	19	114	5.6	.4	.1	.5
Pumped Storage.....	1,532	1,532	1,652	.8	9.0	8.4	7.9
Other.....	38	38	0	NM	.2	.2	.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Tennessee</b>							
<b>Electric Utilities</b> .....	<b>74,853,548</b>	<b>94,142,638</b>	<b>88,678,127</b>	<b>1.9</b>	<b>95.6</b>	<b>96.3</b>	<b>96.2</b>
Coal.....	52,132,070	55,120,297	53,376,149	.3	66.5	56.4	57.9
Petroleum.....	295,961	699,233	379,007	2.8	.4	.7	.4
Natural Gas.....	94,605	550,543	408,059	17.6	.1	.6	.4
Nuclear.....	11,932,352	28,387,543	24,152,580	8.1	15.2	29.0	26.2
Hydroelectric.....	10,991,541	10,007,358	11,087,048	.1	14.0	10.2	12.0
Other Renewables.....	0	0	3,933	NM	.0	.0	*
Pumped Storage.....	-592,981	-622,336	-728,649	NM	-8	-6	-8
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,481,409</b>	<b>3,585,819</b>	<b>3,543,663</b>	<b>.2</b>	<b>4.4</b>	<b>3.7</b>	<b>3.8</b>
Coal.....	1,576,478	1,712,642	1,545,148	-2	2.0	1.8	1.7
Petroleum.....	16,167	6,941	26,803	5.8	*	*	*
Natural Gas.....	209,673	307,320	218,927	.5	.3	.3	.2
Other Gases.....	3,030	15,845	2,834	-7	*	*	*
Hydroelectric.....	1,036,418	798,670	916,598	-1.4	1.3	.8	1.0
Other Renewables.....	527,967	647,545	828,187	5.1	.7	.7	.9
Other.....	111,676	96,856	5,166	-28.9	.1	.1	*
<b>Total Electric Industry</b> .....	<b>78,334,957</b>	<b>97,728,457</b>	<b>92,221,791</b>	<b>1.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	53,708,548	56,832,939	54,921,297	.2	68.6	58.2	59.6
Petroleum.....	312,128	706,174	405,810	3.0	.4	.7	.4
Natural Gas.....	304,278	857,863	626,986	8.4	.4	.9	.7
Other Gases.....	3,030	15,845	2,834	-7	*	*	*
Nuclear.....	11,932,352	28,387,543	24,152,580	8.1	15.2	29.0	26.2
Hydroelectric.....	12,027,959	10,806,028	12,003,646	*	15.4	11.1	13.0
Other Renewables.....	527,967	647,545	832,120	5.2	.7	.7	.9
Pumped Storage.....	-592,981	-622,336	-728,649	NM	-8	-6	-8
Other.....	111,676	96,856	5,166	-28.9	.1	.1	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Tennessee</b>				
Coal (cents per million Btu).....	125.6	112.5	W	W
Average heat value (Btu per pound).....	12,186	11,733	11,465	-0.7
Average sulfur Content (percent).....	2.0	1.7	1.2	-5.6
Petroleum (cents per million Btu).....	414.9	304.5	619.3	4.5
Average heat value (Btu per gallon).....	138,244	139,886	139,903	.1
Average sulfur Content (percent).....	.5	.5	.5	.0
Natural Gas (cents per million Btu).....	.0	.0	619.7	NM
Average heat value (Btu per cubic foot).....	0	0	1,025	NM

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Tennessee</b>				
Sulfur Dioxide				
Coal .....	770	435	336	-8.8
Petroleum .....	*	*	1	10.2
Natural Gas .....	—	—	—	NM
Other .....	5	3	7	5.0
Total .....	775	439	344	-8.6
Nitrogen Oxide				
Coal .....	228	224	127	-6.3
Petroleum .....	*	*	*	7.3
Gas .....	1	2	1	2.9
Other .....	2	2	1	-12.0
Total .....	231	227	129	-6.2
Carbon Dioxide				
Coal .....	53,915	57,842	54,782	.2
Petroleum .....	283	631	459	5.5
Gas .....	407	865	571	3.8
Geothermal .....	—	—	—	NM
Other .....	36	33	8	-15.5
Total .....	54,641	59,372	55,820	.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Tennessee</b>							
Retail Sales (thousand megawatthours)							
Residential .....	32,797	35,428	37,697	1.6	39.7	38.6	38.7
Commercial .....	5,154	24,840	27,481	20.4	6.2	27.1	28.2
Industrial .....	43,614	30,461	32,278	-3.3	52.8	33.2	33.1
Other .....	968	1,021	NA	NM	1.2	1.1	NA
Total .....	82,533	91,750	97,456	1.9	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,928	2,238	2,467	2.8	44.7	43.4	43.4
Commercial .....	342	1,560	1,836	20.5	7.9	30.3	32.3
Industrial .....	1,970	1,269	1,384	-3.8	45.7	24.6	24.3
Other .....	75	89	NA	NM	1.7	1.7	NA
Total .....	4,314	5,155	5,687	3.1	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	5.88	6.32	6.55	1.2	NA	NA	NA
Commercial .....	6.63	6.28	6.68	.1	NA	NA	NA
Industrial .....	4.52	4.17	4.29	-.6	NA	NA	NA
Other .....	7.74	8.71	NA	NM	NA	NA	NA
Total .....	5.23	5.62	5.84	1.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Tennessee</b>								
Number of Entities.....	3	62	1	25	3	NA	NA	94
Number of Retail Customers.....	45,628	2,029,100	40	848,844	3	NA	NA	2,923,615
Retail Sales (thousand megawatthours) .....	2,029	66,596	8,169	19,591	1,072	NA	NA	97,456
Percentage of Retail Sales .....	2.08	68.33	8.38	20.10	1.10	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	85	4,059	252	1,282	8	NA	NA	5,687
Percentage of Revenue.....	1.49	71.38	4.43	22.54	.15	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.19	6.10	3.09	6.54	.79	NA	NA	5.84

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Texas</b>		
NERC Region(s).....		ERCOT/SPP/WSCC/SERC
Primary Energy Source .....		Gas
Net Summer Capability (megawatts).....	99,593	1
Electric Utilities .....	22,629	9
Independent Power Producers & Combined Heat and Power .....	76,964	1
Net Generation (megawatthours).....	379,199,685	1
Electric Utilities .....	86,882,044	10
Independent Power Producers & Combined Heat and Power .....	292,317,641	1
Emissions (thousand metric tons)		
Sulfur Dioxide .....	614	4
Nitrogen Oxide .....	252	3
Carbon Dioxide .....	254,955	1
Sulfur Dioxide (lbs/MWh).....	3.6	33
Nitrogen Oxide (lbs/MWh).....	1.5	40
Carbon Dioxide (lbs/MWh).....	1,482	22
Total Retail Sales (megawatthours).....	322,685,955	1
Full Service Provider Sales (megawatthours).....	322,685,955	1
Direct Use (megawatthours).....	41,705,982	1
Average Retail Price (cents/kWh).....	7.50	15

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Texas</b>			
1. W A Parish.....	Gas, Coal	CenterPoint Energy Houston Electric, LLC	3,653
2. South Texas Project .....	Nuclear	STP Nuclear Operating Co	2,560
3. Cedar Bayou .....	Petroleum, Gas	CenterPoint Energy Houston Electric, LLC	2,258
4. Martin Lake.....	Petroleum, Coal	TXU Generation Co LP	2,250
5. P H Robinson.....	Gas	CenterPoint Energy Houston Electric, LLC	2,211
6. Comanche Peak .....	Nuclear	TXU Generation Co LP	2,208
7. Monticello.....	Petroleum, Coal	TXU Generation Co LP	1,875
8. Sabine .....	Petroleum, Gas	Energy Gulf States Inc	1,809
9. Fayette Power Project .....	Petroleum, Coal	Lower Colorado River Authority	1,605
10. Limestone.....	Gas, Petroleum, Coal	CenterPoint Energy Houston Electric, LLC	1,602

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Texas</b>						
1. TXU Energy Retail Co LP.....	Power Marketer	79,049,806	35,535,009	14,801,355	28,623,442	90,000
2. Reliant Energy Retail Services .....	Power Marketer	34,693,959	22,790,440	11,903,519	0	0
3. Reliant Energy Solutions.....	Power Marketer	21,461,346	0	0	21,461,346	0
4. San Antonio Public Service Bd .....	Public	17,066,094	7,388,063	6,963,901	2,714,130	0
5. Entergy Gulf States Inc.....	Investor-Owned	15,365,946	5,120,432	3,973,790	6,271,724	0
Total Sales, Top Five Providers.....		167,637,151	70,833,944	37,642,565	59,070,642	90,000
Percent of Total State Sales .....		52	58	39	57	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Texas</b>							
<b>Electric Utilities</b> .....	<b>64,087</b>	<b>65,208</b>	<b>22,629</b>	<b>-10.9</b>	<b>88.7</b>	<b>87.4</b>	<b>22.7</b>
Coal.....	19,345	19,731	8,189	-9.1	26.8	26.5	8.2
Petroleum.....	29	36	4	-19.8	*	*	*
Natural Gas.....	8,963	8,976	5,288	-5.7	12.4	12.0	5.3
Dual Fired.....	30,315	30,957	8,442	-13.2	42.0	41.5	8.5
Nuclear.....	4,782	4,800	0	NM	6.6	6.4	.0
Hydroelectric.....	653	694	692	.6	.9	.9	.7
Other Renewables.....	0	1	1	NM	.0	*	*
Other.....	0	13	13	NM	.0	*	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>8,157</b>	<b>9,362</b>	<b>76,964</b>	<b>28.3</b>	<b>11.3</b>	<b>12.6</b>	<b>77.3</b>
Coal.....	338	338	11,864	48.5	.5	.5	11.9
Petroleum.....	66	76	477	24.6	.1	.1	.5
Natural Gas.....	6,429	7,519	36,327	21.2	8.9	10.1	36.5
Other Gases.....	163	192	289	6.6	.2	.3	.3
Dual Fired.....	886	981	21,711	42.7	1.2	1.3	21.8
Nuclear.....	0	0	4,768	NM	.0	.0	4.8
Hydroelectric.....	0	2	7	NM	.0	*	*
Other Renewables.....	205	184	1,432	24.1	.3	.2	1.4
Other.....	70	70	89	2.7	.1	.1	.1
<b>Total Electric Industry</b> .....	<b>72,242</b>	<b>74,570</b>	<b>99,593</b>	<b>3.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	19,683	20,069	20,053	.2	27.2	26.9	20.1
Petroleum.....	94	112	481	19.9	.1	.1	.5
Natural Gas.....	15,391	16,495	41,615	11.7	21.3	22.1	41.8
Other Gases.....	163	192	289	6.6	.2	.3	.3
Dual Fired.....	31,201	31,939	30,152	-.4	43.2	42.8	30.3
Nuclear.....	4,782	4,800	4,768	*	6.6	6.4	4.8
Hydroelectric.....	653	695	699	.8	.9	.9	.7
Other Renewables.....	205	185	1,434	24.1	.3	.2	1.4
Other.....	70	83	102	4.3	.1	.1	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Texas</b>							
<b>Electric Utilities</b> .....	<b>255,140,538</b>	<b>293,068,377</b>	<b>86,882,044</b>	<b>-11.3</b>	<b>83.1</b>	<b>82.5</b>	<b>22.9</b>
Coal.....	122,667,859	132,626,804	60,288,940	-7.6	39.9	37.3	15.9
Petroleum.....	309,537	136,818	257,818	-2.0	.1	*	.1
Natural Gas.....	101,583,910	120,200,589	25,473,500	-14.2	33.1	33.8	6.7
Nuclear.....	28,745,474	38,685,129	0	NM	9.4	10.9	.0
Hydroelectric.....	1,530,436	1,418,903	858,933	-6.2	.5	.4	.2
Other Renewables.....	303,322	134	2,852	-40.5	.1	.0	*
<b>Independent Power Producers and Combined Heat and Power</b> .....	<b>52,038,986</b>	<b>62,251,787</b>	<b>292,317,641</b>	<b>21.1</b>	<b>16.9</b>	<b>17.5</b>	<b>77.1</b>
Coal.....	2,477,798	2,799,221	86,700,570	48.4	.8	.8	22.9
Petroleum.....	1,650,354	1,443,274	2,257,437	3.5	.5	.4	.6
Natural Gas.....	42,856,658	51,943,335	159,437,850	15.7	14.0	14.6	42.0
Other Gases.....	3,539,454	4,077,715	5,999,489	6.0	1.2	1.1	1.6
Nuclear.....	0	0	33,437,484	NM	.0	.0	8.8
Hydroelectric.....	0	5,918	37,606	NM	.0	*	*
Other Renewables.....	1,275,462	1,428,990	3,962,885	13.4	.4	.4	1.0
Other.....	239,260	553,334	484,320	8.2	.1	.2	.1
<b>Total Electric Industry</b> .....	<b>307,179,524</b>	<b>355,320,164</b>	<b>379,199,685</b>	<b>2.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	125,145,657	135,426,025	146,989,510	1.8	40.7	38.1	38.8
Petroleum.....	1,959,891	1,580,092	2,515,255	2.8	.6	.4	.7
Natural Gas.....	144,440,568	172,143,924	184,911,350	2.8	47.0	48.4	48.8
Other Gases.....	3,539,454	4,077,715	5,999,489	6.0	1.2	1.1	1.6
Nuclear.....	28,745,474	38,685,129	33,437,484	1.7	9.4	10.9	8.8
Hydroelectric.....	1,530,436	1,424,821	896,539	-5.8	.5	.4	.2
Other Renewables.....	1,578,784	1,429,124	3,965,737	10.8	.5	.4	1.0
Other.....	239,260	553,334	484,320	8.2	.1	.2	.1

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Texas</b>				
Coal (cents per million Btu).....	135.0	123.9	125.4	-0.8
Average heat value (Btu per pound).....	7,346	7,509	7,605	.4
Average sulfur Content (percent).....	.7	.7	.8	.7
Petroleum (cents per million Btu).....	210.8	113.4	422.8	8.0
Average heat value (Btu per gallon).....	120,682	99,069	139,979	1.7
Average sulfur Content (percent).....	.5	2.7	1.4	11.5
Natural Gas (cents per million Btu).....	215.2	224.9	528.1	10.5
Average heat value (Btu per cubic foot).....	1,023	1,024	1,029	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Texas</b>				
Sulfur Dioxide				
Coal .....	511	595	573	1.3
Petroleum .....	37	4	22	-5.8
Natural Gas .....	*	1	1	4.6
Other .....	13	6	18	4.0
Total .....	562	605	614	1.0
Nitrogen Oxide				
Coal .....	450	251	146	-11.8
Petroleum .....	3	3	5	4.3
Gas .....	172	224	93	-6.6
Other .....	5	7	7	5.2
Total .....	630	484	252	-9.7
Carbon Dioxide				
Coal .....	127,044	138,777	149,718	1.8
Petroleum .....	2,434	1,883	2,888	1.9
Gas .....	88,344	104,555	102,349	1.6
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	217,822	245,215	254,955	1.8

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Texas</b>							
Retail Sales (thousand megawatthours)							
Residential .....	89,793	110,434	121,355	3.4	34.8	36.2	37.6
Commercial .....	66,467	77,231	96,694	4.3	25.7	25.3	30.0
Industrial .....	90,329	102,702	104,547	1.6	35.0	33.7	32.4
Other .....	11,591	14,337	NA	NM	4.5	4.7	NA
Transportation .....	NA	NA	90	NM	NA	NA	*
Total .....	258,180	304,705	322,686	2.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	7,255	8,448	11,111	4.8	43.8	45.7	45.9
Commercial .....	4,678	5,074	7,581	5.5	28.2	27.4	31.3
Industrial .....	3,858	4,047	5,512	4.0	23.3	21.9	22.8
Other .....	786	917	NA	NM	4.7	5.0	NA
Transportation .....	NA	NA	6	NM	NA	NA	*
Total .....	16,577	18,486	24,211	4.3	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.08	7.65	9.16	1.4	NA	NA	NA
Commercial .....	7.04	6.57	7.84	1.2	NA	NA	NA
Industrial .....	4.27	3.94	5.27	2.4	NA	NA	NA
Other .....	6.79	6.40	NA	NM	NA	NA	NA
Transportation .....	NA	NA	6.62	NM	NA	NA	NA
Total .....	6.42	6.07	7.50	1.7	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Texas</b>								
Number of Entities.....	53	72	NA	68	17	NA	NA	210
Number of Retail Customers.....	7,046,095	1,499,698	NA	1,568,284	23	NA	NA	10,114,100
Retail Sales (thousand megawatthours) .....	240,342	40,960	NA	31,601	9,784	NA	NA	322,686
Percentage of Retail Sales .....	74.48	12.69	NA	9.79	3.03	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	18,207	3,090	NA	2,462	451	NA	NA	24,211
Percentage of Revenue.....	75.20	12.76	NA	10.17	1.86	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.58	7.54	NA	7.79	4.61	NA	NA	7.50

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Utah</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	5,798	39
Electric Utilities .....	5,575	31
Independent Power Producers & Combined Heat and Power .....	222	46
Net Generation (megawatthours).....	38,023,666	35
Electric Utilities .....	37,544,892	29
Independent Power Producers & Combined Heat and Power .....	478,774	46
Emissions (thousand metric tons)		
Sulfur Dioxide.....	32	38
Nitrogen Oxide.....	68	30
Carbon Dioxide.....	34,423	28
Sulfur Dioxide (lbs/MWh).....	1.9	41
Nitrogen Oxide (lbs/MWh).....	3.9	13
Carbon Dioxide (lbs/MWh).....	1,996	9
Total Retail Sales (megawatthours).....	23,860,350	37
Full Service Provider Sales (megawatthours).....	23,860,350	37
Direct Use (megawatthours).....	360,206	40
Average Retail Price (cents/kWh).....	5.41	46

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Utah</b>			
1. Intermountain Power Project .....	Petroleum, Coal	Los Angeles City of	1,640
2. Hunter.....	Petroleum, Coal	PacifiCorp	1,320
3. Huntington.....	Petroleum, Coal	PacifiCorp	895
4. Bonanza.....	Petroleum, Coal	Deseret Generation & Tran Coop	425
5. Gadsby.....	Gas	PacifiCorp	349
6. West Valley Generation Project.....	Gas	PacifiCorp	185
7. Carbon.....	Petroleum, Coal	PacifiCorp	172
8. Murray Turbine.....	Gas	Murray City of	159
9. Flaming Gorge.....	Hydro	U S Bureau of Reclamation	152
10. KUCC.....	Hydro	Kennecott Utah Copper Corporation	93

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Utah</b>						
1. PacifiCorp .....	Investor-Owned	19,204,334	5,407,852	6,901,439	6,870,415	24,628
2. Provo City Corp.....	Public	711,158	218,306	368,263	124,589	0
3. St George City of.....	Public	503,052	234,584	104,075	164,393	0
4. Logan City of.....	Public	395,018	83,802	226,980	84,236	0
5. Murray City of.....	Public	368,688	111,578	257,110	0	0
Total Sales, Top Five Providers.....		21,182,250	6,056,122	7,857,867	7,243,633	24,628
Percent of Total State Sales.....		89	85	87	95	100

See footnotes at end of tables.



**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Utah</b>							
<b>Electric Utilities</b> .....	<b>4,815</b>	<b>5,076</b>	<b>5,575</b>	<b>1.6</b>	<b>97.2</b>	<b>97.5</b>	<b>96.2</b>
Coal.....	4,272	4,448	4,461	.5	86.3	85.4	76.9
Petroleum.....	25	33	28	1.3	.5	.6	.5
Natural Gas.....	173	238	719	17.1	3.5	4.6	12.4
Dual Fired.....	53	57	82	5.0	1.1	1.1	1.4
Hydroelectric.....	257	265	252	-.2	5.2	5.1	4.3
Other Renewables.....	35	35	33	-.7	.7	.7	.6
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>136</b>	<b>130</b>	<b>222</b>	<b>5.6</b>	<b>2.7</b>	<b>2.5</b>	<b>3.8</b>
Coal.....	54	54	144	11.5	1.1	1.0	2.5
Petroleum.....	1	20	3	13.0	*	.4	.1
Natural Gas.....	2	4	72	48.9	*	.1	1.2
Other Gases.....	48	48	0	NM	1.0	.9	.0
Dual Fired.....	21	0	0	NM	.4	.0	.0
Hydroelectric.....	10	4	2	-16.4	.2	.1	*
Other Renewables.....	0	0	1	NM	.0	.0	*
<b>Total Electric Industry</b> .....	<b>4,953</b>	<b>5,206</b>	<b>5,798</b>	<b>1.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	4,327	4,502	4,606	.7	87.4	86.5	79.4
Petroleum.....	27	53	31	1.5	.5	1.0	.5
Natural Gas.....	175	242	791	18.2	3.5	4.6	13.6
Other Gases.....	48	48	0	NM	1.0	.9	.0
Dual Fired.....	74	57	82	1.1	1.5	1.1	1.4
Hydroelectric.....	267	269	254	-.6	5.4	5.2	4.4
Other Renewables.....	35	35	34	-.3	.7	.7	.6

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Utah</b>							
<b>Electric Utilities</b> .....	<b>34,455,058</b>	<b>35,160,477</b>	<b>37,544,892</b>	<b>1.0</b>	<b>97.9</b>	<b>97.9</b>	<b>98.7</b>
Coal.....	32,764,465	33,206,731	35,579,158	.9	93.1	92.5	93.6
Petroleum.....	30,154	31,289	31,386	.4	.1	.1	.1
Natural Gas.....	749,605	463,348	1,322,984	6.5	2.1	1.3	3.5
Hydroelectric.....	716,030	1,299,052	412,899	-5.9	2.0	3.6	1.1
Other Renewables.....	194,804	160,057	198,465	.2	.6	.4	.5
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>741,776</b>	<b>749,953</b>	<b>478,774</b>	<b>-4.7</b>	<b>2.1</b>	<b>2.1</b>	<b>1.3</b>
Coal.....	366,199	380,943	399,490	1.0	1.0	1.1	1.1
Petroleum.....	2,946	3,659	1,480	-7.4	*	*	*
Natural Gas.....	57,654	64,909	60,123	.5	.2	.2	.2
Other Gases.....	280,569	284,783	0	NM	.8	.8	.0
Hydroelectric.....	34,408	15,659	8,440	-14.5	.1	*	*
Other Renewables.....	0	0	9,241	NM	.0	.0	*
<b>Total Electric Industry</b> .....	<b>35,196,834</b>	<b>35,910,430</b>	<b>38,023,666</b>	<b>.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	33,130,664	33,587,674	35,978,648	.9	94.1	93.5	94.6
Petroleum.....	33,100	34,948	32,866	-1.1	.1	.1	.1
Natural Gas.....	807,259	528,257	1,383,107	6.2	2.3	1.5	3.6
Other Gases.....	280,569	284,783	0	NM	.8	.8	.0
Hydroelectric.....	750,438	1,314,711	421,339	-6.2	2.1	3.7	1.1
Other Renewables.....	194,804	160,057	207,706	.7	.6	.4	.5

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Utah</b>				
Coal (cents per million Btu).....	113.6	114.8	W	W
Average heat value (Btu per pound).....	11,491	11,310	11,025	-0.5
Average sulfur Content (percent).....	.5	.5	.5	1.7
Petroleum (cents per million Btu).....	467.4	439.5	722.2	5.0
Average heat value (Btu per gallon).....	139,839	139,758	139,492	*
Average sulfur Content (percent).....	.3	.3	.2	-2.0
Natural Gas (cents per million Btu).....	231.6	202.5	W	W
Average heat value (Btu per cubic foot).....	1,044	1,044	1,061	.2

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Utah</b>				
Sulfur Dioxide				
Coal .....	27	29	32	1.9
Petroleum .....	*	—	*	-5.5
Natural Gas .....	—	—	*	NM
Other .....	—	—	*	NM
Total .....	27	29	32	1.9
Nitrogen Oxide				
Coal .....	106	72	67	-5.0
Petroleum .....	*	*	*	-2.8
Gas .....	1	1	*	-10.4
Other .....	—	—	*	NM
Total .....	107	72	68	-5.0
Carbon Dioxide				
Coal .....	31,589	31,758	33,559	.7
Petroleum .....	25	28	26	.6
Gas .....	531	371	779	4.4
Geothermal .....	5	4	5	.1
Other .....	—	—	54	NM
Total .....	32,149	32,161	34,423	.8

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Utah</b>							
Retail Sales (thousand megawatthours)							
Residential .....	5,009	5,756	7,166	4.1	28.1	27.8	30.0
Commercial .....	5,500	6,709	9,024	5.7	30.8	32.4	37.8
Industrial .....	6,498	7,511	7,646	1.8	36.4	36.3	32.0
Other .....	841	724	NA	NM	4.7	3.5	NA
Transportation .....	NA	NA	25	NM	NA	NA	.1
Total .....	17,847	20,700	23,860	3.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	346	394	494	4.0	36.2	36.9	38.3
Commercial .....	323	383	504	5.1	33.8	35.8	39.1
Industrial .....	249	259	290	1.7	26.0	24.2	22.5
Other .....	38	33	NA	NM	4.0	3.1	NA
Transportation .....	NA	NA	1	NM	NA	NA	.1
Total .....	956	1,069	1,290	3.4	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	6.91	6.84	6.90	*	NA	NA	NA
Commercial .....	5.87	5.71	5.59	-.5	NA	NA	NA
Industrial .....	3.83	3.45	3.79	-.1	NA	NA	NA
Other .....	4.50	4.50	NA	NM	NA	NA	NA
Transportation .....	NA	NA	6.01	NM	NA	NA	NA
Total .....	5.36	5.16	5.41	.1	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Utah</b>								
Number of Entities.....	1	41	1	9	NA	NA	NA	52
Number of Retail Customers.....	699,483	196,459	4	33,957	NA	NA	NA	929,903
Retail Sales (thousand megawatthours) .....	19,204	3,841	63	752	NA	NA	NA	23,860
Percentage of Retail Sales .....	80.49	16.10	.26	3.15	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	966	276	2	46	NA	NA	NA	1,290
Percentage of Revenue.....	74.90	21.37	.14	3.59	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.03	7.18	2.92	6.15	NA	NA	NA	5.41

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Vermont</b>		
NERC Region(s).....		NPCC
Primary Energy Source .....		Nuclear
Net Summer Capability (megawatts).....	997	50
Electric Utilities .....	260	45
Independent Power Producers & Combined Heat and Power .....	738	42
Net Generation (megawatthours).....	6,027,962	49
Electric Utilities .....	626,337	45
Independent Power Producers & Combined Heat and Power .....	5,401,625	34
Emissions (thousand metric tons)		
Sulfur Dioxide .....	*	51
Nitrogen Oxide .....	*	50
Carbon Dioxide .....	25	51
Sulfur Dioxide (lbs/MWh).....	.0	51
Nitrogen Oxide (lbs/MWh).....	.1	51
Carbon Dioxide (lbs/MWh).....	9	51
Total Retail Sales (megawatthours).....	5,352,429	51
Full Service Provider Sales (megawatthours).....	5,352,429	50
Direct Use (megawatthours).....	70,908	47
Average Retail Price (cents/kWh).....	10.98	4

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Vermont</b>			
1. Vermont Yankee .....	Nuclear	Entergy Nuclear Vermont Yankee	506
2. J C McNeil .....	Gas, Petroleum, Other	Burlington City of	52
3. Bellows Falls .....	Hydro	U S Gen New England Inc	49
4. Wilder .....	Hydro	U S Gen New England Inc	41
5. Harriman .....	Hydro	U S Gen New England Inc	40
6. Berlin 5 .....	Petroleum	Green Mountain Power Corp	36
7. Vernon .....	Hydro	U S Gen New England Inc	24
8. Sheldon Springs Hydroelectric .....	Hydro	Missisquoi Associates	24
9. Burlington GT .....	Petroleum	Burlington City of	20
10. Ryegate Power Station .....	Other	Ryegate Associates	20

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Vermont</b>						
1. Central Vermont Pub Serv Corp.....	Investor-Owned	2,198,163	948,278	853,804	396,081	0
2. Green Mountain Power Corp.....	Investor-Owned	1,933,728	581,047	707,410	645,271	0
3. Burlington City of .....	Public	349,920	94,247	190,386	65,287	0
4. Omya Inc .....	Investor-Owned	208,221	6,231	3,519	198,471	0
5. Vermont Electric Coop, Inc.....	Cooperative	152,362	121,364	8,427	22,571	0
Total Sales, Top Five Providers.....		4,842,394	1,751,167	1,763,546	1,327,681	0
Percent of Total State Sales .....		90	87	94	91	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Vermont</b>							
<b>Electric Utilities</b> .....	<b>1,093</b>	<b>773</b>	<b>260</b>	<b>-14.7</b>	<b>93.9</b>	<b>78.9</b>	<b>26.1</b>
Petroleum.....	120	117	107	-1.3	10.3	11.9	10.7
Nuclear.....	496	500	0	NM	42.6	51.0	.0
Hydroelectric.....	430	103	96	-15.3	36.9	10.5	9.6
Other Renewables.....	47	53	57	2.2	4.0	5.4	5.7
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>71</b>	<b>207</b>	<b>738</b>	<b>29.7</b>	<b>6.1</b>	<b>21.1</b>	<b>74.0</b>
Nuclear.....	0	0	506	NM	.0	.0	50.8
Hydroelectric.....	47	183	208	18.0	4.0	18.7	20.9
Other Renewables.....	24	24	24	.0	2.1	2.4	2.4
<b>Total Electric Industry</b> .....	<b>1,164</b>	<b>980</b>	<b>997</b>	<b>-1.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	120	117	107	-1.3	10.3	11.9	10.7
Nuclear.....	496	500	506	.2	42.6	51.0	50.8
Hydroelectric.....	477	287	303	-4.9	41.0	29.3	30.4
Other Renewables.....	71	76	81	1.5	6.1	7.8	8.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Vermont</b>							
<b>Electric Utilities</b> .....	<b>5,293,892</b>	<b>4,393,537</b>	<b>626,337</b>	<b>-21.1</b>	<b>94.2</b>	<b>88.8</b>	<b>10.4</b>
Petroleum.....	5,764	41,265	22,607	16.4	.1	.8	.4
Natural Gas.....	5,806	827	2,029	-11.0	.1	*	*
Nuclear.....	4,315,544	3,357,696	0	NM	76.8	67.9	.0
Hydroelectric.....	895,095	848,291	367,624	-9.4	15.9	17.1	6.1
Other Renewables.....	71,683	145,458	234,077	14.1	1.3	2.9	3.9
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>323,138</b>	<b>552,760</b>	<b>5,401,625</b>	<b>36.7</b>	<b>5.8</b>	<b>11.2</b>	<b>89.6</b>
Petroleum.....	590	1,030	0	NM	*	*	.0
Nuclear.....	0	0	4,444,152	NM	.0	.0	73.7
Hydroelectric.....	143,558	345,758	786,414	20.8	2.6	7.0	13.0
Other Renewables.....	178,990	205,972	171,059	-5	3.2	4.2	2.8
<b>Total Electric Industry</b> .....	<b>5,617,030</b>	<b>4,946,297</b>	<b>6,027,962</b>	<b>.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Petroleum.....	6,354	42,295	22,607	15.1	.1	.9	.4
Natural Gas.....	5,806	827	2,029	-11.0	.1	*	*
Nuclear.....	4,315,544	3,357,696	4,444,152	.3	76.8	67.9	73.7
Hydroelectric.....	1,038,653	1,194,049	1,154,038	1.2	18.5	24.1	19.1
Other Renewables.....	250,673	351,430	405,136	5.5	4.5	7.1	6.7

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Vermont</b>				
Petroleum (cents per million Btu).....	453.5	327.1	0.0	NM
Average heat value (Btu per gallon).....	135,810	136,130	0	NM
Average sulfur Content (percent).....	.1	.4	.0	NM
Natural Gas (cents per million Btu).....	231.5	286.1	.0	NM
Average heat value (Btu per cubic foot).....	996	1,014	0	NM

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Vermont</b>				
<b>Sulfur Dioxide</b>				
Coal .....	—	—	—	NM
Petroleum .....	*	—	*	6.7
Natural Gas .....	—	—	—	NM
Other.....	*	*	*	.9
Total .....	*	*	*	4.5
<b>Nitrogen Oxide</b>				
Coal .....	—	—	—	NM
Petroleum .....	—	—	*	NM
Gas.....	*	*	—	NM
Other.....	*	*	*	8.7
Total .....	*	*	*	8.8
<b>Carbon Dioxide</b>				
Coal .....	—	—	—	NM
Petroleum .....	12	46	24	7.8
Gas.....	9	10	2	-17.0
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total .....	21	56	25	2.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Vermont</b>							
Retail Sales (thousand megawatthours)							
Residential.....	2,009	1,951	2,011	*	39.6	36.4	37.6
Commercial.....	1,586	1,786	1,881	1.9	31.3	33.3	35.1
Industrial.....	1,435	1,534	1,460	.2	28.3	28.6	27.3
Other.....	36	92	NA	NM	.7	1.7	NA
Total.....	5,067	5,363	5,352	.6	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	200	227	258	2.9	43.3	43.1	43.9
Commercial.....	149	181	212	4.0	32.3	34.3	36.0
Industrial.....	108	112	117	.9	23.4	21.3	19.9
Other.....	5	8	NA	NM	1.1	1.5	NA
Total.....	462	527	588	2.7	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	9.96	11.61	12.82	2.8	NA	NA	NA
Commercial.....	9.42	10.12	11.29	2.0	NA	NA	NA
Industrial.....	7.50	7.27	8.05	.8	NA	NA	NA
Other.....	14.88	8.91	NA	NM	NA	NA	NA
Total.....	9.13	9.83	10.98	2.1	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Vermont</b>								
Number of Entities.....	4	15	NA	2	1	NA	NA	22
Number of Retail Customers.....	238,957	51,903	NA	26,265	1	NA	NA	317,126
Retail Sales (thousand megawatthours).....	4,346	772	NA	218	16	NA	NA	5,352
Percentage of Retail Sales.....	81.20	14.43	NA	4.08	.29	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	477	80	NA	31	*	NA	NA	588
Percentage of Revenue.....	81.18	13.54	NA	5.20	.07	NA	NA	100.00
Average Retail Price (cents/kWh).....	10.98	10.31	NA	14.01	2.62	NA	NA	10.98

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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



**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Virginia</b>		
NERC Region(s).....		ECAR/SERC/MAAC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	21,257	16
Electric Utilities .....	17,127	14
Independent Power Producers & Combined Heat and Power .....	4,130	22
Net Generation (megawatthours).....	75,309,420	21
Electric Utilities .....	61,806,347	17
Independent Power Producers & Combined Heat and Power .....	13,503,073	19
Emissions (thousand metric tons)		
Sulfur Dioxide .....	237	17
Nitrogen Oxide .....	79	23
Carbon Dioxide .....	46,125	21
Sulfur Dioxide (lbs/MWh).....	6.9	17
Nitrogen Oxide (lbs/MWh).....	2.3	31
Carbon Dioxide (lbs/MWh).....	1,350	27
Total Retail Sales (megawatthours).....	101,509,731	11
Full Service Provider Sales (megawatthours).....	101,479,128	9
Deregulated Sales (megawatthours).....	30,603	18
Direct Use (megawatthours).....	2,995,409	14
Average Retail Price (cents/kWh).....	6.27	33

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Virginia</b>			
1. Bath County.....	Hydro	Dominion Virginia Power	2,400
2. North Anna.....	Hydro, Nuclear	Dominion Virginia Power	1,843
3. Possum Point.....	Coal, Gas, Petroleum	Dominion Virginia Power	1,799
4. Chesterfield.....	Petroleum, Gas, Coal	Dominion Virginia Power	1,631
5. Surry .....	Nuclear	Dominion Virginia Power	1,625
6. Yorktown .....	Gas, Coal, Petroleum	Dominion Virginia Power	1,144
7. Clover .....	Petroleum, Coal	Dominion Virginia Power	882
8. Doswell Energy Center.....	Petroleum, Gas	Doswell Ltd Partnership	820
9. Chesapeake .....	Petroleum, Coal	Dominion Virginia Power	739
10. Clinch River.....	Petroleum, Coal	Appalachian Power Co	690

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Virginia</b>						
1. Dominion Virginia Power .....	Investor-Owned	68,323,177	25,792,476	33,396,930	8,962,099	171,672
2. Appalachian Power Co .....	Investor-Owned	15,555,495	6,160,504	3,812,641	5,582,350	0
3. Potomac Edison Co .....	Investor-Owned	2,779,894	1,142,020	580,665	1,057,209	0
4. Northern Virginia Elec Coop .....	Cooperative	2,603,080	1,611,894	658,417	332,769	0
5. Rappahannock Electric Coop .....	Cooperative	2,247,193	1,232,673	110,872	903,648	0
Total Sales, Top Five Providers.....		91,508,839	35,939,567	38,559,525	16,838,075	171,672
Percent of Total State Sales .....		90	88	94	87	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Virginia</b>							
<b>Electric Utilities</b> .....	<b>13,763</b>	<b>15,314</b>	<b>17,127</b>	<b>2.5</b>	<b>80.5</b>	<b>81.7</b>	<b>80.6</b>
Coal.....	4,217	5,099	4,468	.6	24.7	27.2	21.0
Petroleum.....	1,207	2,046	1,915	5.3	7.1	10.9	9.0
Natural Gas.....	398	544	1,566	16.4	2.3	2.9	7.4
Dual Fired.....	1,484	1,146	2,314	5.1	8.7	6.1	10.9
Nuclear .....	3,349	3,392	3,467	.4	19.6	18.1	16.3
Hydroelectric .....	763	742	759	-.1	4.5	4.0	3.6
Pumped Storage .....	2,345	2,345	2,638	1.3	13.7	12.5	12.4
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,330</b>	<b>3,434</b>	<b>4,130</b>	<b>2.4</b>	<b>19.5</b>	<b>18.3</b>	<b>19.4</b>
Coal.....	894	1,122	1,328	4.5	5.2	6.0	6.2
Petroleum.....	6	12	358	57.5	*	.1	1.7
Natural Gas.....	164	360	430	11.3	1.0	1.9	2.0
Dual Fired.....	1,649	1,283	1,417	-1.7	9.6	6.8	6.7
Hydroelectric .....	22	22	21	-5	.1	.1	.1
Other Renewables .....	595	635	576	-4	3.5	3.4	2.7
<b>Total Electric Industry</b> .....	<b>17,096</b>	<b>18,747</b>	<b>21,257</b>	<b>2.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,112	6,221	5,796	1.4	29.9	33.2	27.3
Petroleum.....	1,213	2,057	2,273	7.2	7.1	11.0	10.7
Natural Gas.....	562	904	1,996	15.1	3.3	4.8	9.4
Dual Fired.....	3,134	2,429	3,731	2.0	18.3	13.0	17.6
Nuclear .....	3,349	3,392	3,467	.4	19.6	18.1	16.3
Hydroelectric .....	785	763	780	-.1	4.6	4.1	3.7
Other Renewables .....	596	636	576	-4	3.5	3.4	2.7
Pumped Storage .....	2,345	2,345	2,638	1.3	13.7	12.5	12.4

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Virginia</b>							
<b>Electric Utilities</b> .....	<b>52,732,286</b>	<b>63,814,565</b>	<b>61,806,347</b>	<b>1.8</b>	<b>85.0</b>	<b>88.4</b>	<b>82.1</b>
Coal.....	22,448,944	31,471,297	29,145,703	2.9	36.2	43.6	38.7
Petroleum.....	2,373,888	2,654,660	4,982,314	8.6	3.8	3.7	6.6
Natural Gas.....	2,151,992	2,198,665	2,690,674	2.5	3.5	3.0	3.6
Nuclear.....	25,428,856	27,234,399	24,816,022	-3	41.0	37.7	33.0
Hydroelectric.....	1,070,830	1,210,984	1,669,793	5.1	1.7	1.7	2.2
Other Renewables.....	11	0	0	NM	.0	.0	.0
Pumped Storage.....	-742,235	-955,440	-1,498,159	NM	-1.2	-1.3	-2.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>9,316,638</b>	<b>8,384,874</b>	<b>13,503,073</b>	<b>4.2</b>	<b>15.0</b>	<b>11.6</b>	<b>17.9</b>
Coal.....	4,141,711	3,404,468	7,947,628	7.5	6.7	4.7	10.6
Petroleum.....	516,303	271,394	798,022	5.0	.8	.4	1.1
Natural Gas.....	2,529,147	2,038,080	1,928,391	-3.0	4.1	2.8	2.6
Other Gases.....	0	58	2,959	NM	.0	.0	*
Hydroelectric.....	75,286	72,311	111,776	4.5	.1	.1	.1
Other Renewables.....	2,050,900	2,598,563	2,714,295	3.2	3.3	3.6	3.6
Other.....	3,291	0	0	NM	*	.0	.0
<b>Total Electric Industry</b> .....	<b>62,048,924</b>	<b>72,199,439</b>	<b>75,309,420</b>	<b>2.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	26,590,655	34,875,765	37,093,331	3.8	42.9	48.3	49.3
Petroleum.....	2,890,191	2,926,054	5,780,336	8.0	4.7	4.1	7.7
Natural Gas.....	4,681,139	4,236,745	4,619,065	-1	7.5	5.9	6.1
Other Gases.....	0	58	2,959	NM	.0	.0	*
Nuclear.....	25,428,856	27,234,399	24,816,022	-3	41.0	37.7	33.0
Hydroelectric.....	1,146,116	1,283,295	1,781,569	5.0	1.8	1.8	2.4
Other Renewables.....	2,050,911	2,598,563	2,714,295	3.2	3.3	3.6	3.6
Pumped Storage.....	-742,235	-955,440	-1,498,159	NM	-1.2	-1.3	-2.0
Other.....	3,291	0	0	NM	*	.0	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Virginia</b>				
Coal (cents per million Btu).....	145.0	137.8	166.5	1.6
Average heat value (Btu per pound).....	12,778	12,603	12,826	*
Average sulfur Content (percent).....	1.0	1.0	1.0	-2
Petroleum (cents per million Btu).....	216.2	203.7	498.7	9.7
Average heat value (Btu per gallon).....	149,744	150,158	149,366	*
Average sulfur Content (percent).....	1.1	1.1	.6	-5.4
Natural Gas (cents per million Btu).....	256.6	295.4	617.5	10.3
Average heat value (Btu per cubic foot).....	1,037	1,050	1,035	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Virginia</b>				
Sulfur Dioxide				
Coal .....	200	219	200	*
Petroleum .....	12	20	25	8.0
Natural Gas .....	*	*	*	-3.1
Other .....	12	9	12	-4
Total .....	224	247	237	.6
Nitrogen Oxide				
Coal .....	112	119	67	-5.5
Petroleum .....	4	3	5	1.6
Gas .....	3	4	2	-7.4
Other .....	4	6	6	3.1
Total .....	124	132	79	-4.8
Carbon Dioxide				
Coal .....	29,258	36,480	38,222	3.0
Petroleum .....	2,818	2,759	4,653	5.7
Gas .....	2,437	2,379	2,342	-4
Geothermal .....	—	—	—	NM
Other .....	140	205	908	23.1
Total .....	34,653	41,824	46,125	3.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Virginia</b>							
Retail Sales (thousand megawatthours)							
Residential .....	32,343	34,703	40,877	2.6	39.3	38.3	40.3
Commercial .....	22,948	26,176	41,179	6.7	27.9	28.9	40.6
Industrial .....	18,154	20,024	19,282	.7	22.1	22.1	19.0
Other .....	8,766	9,705	NA	NM	10.7	10.7	NA
Transportation .....	NA	NA	172	NM	NA	NA	.2
Total .....	82,210	90,609	101,510	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	2,507	2,608	3,174	2.7	49.2	49.0	49.9
Commercial .....	1,339	1,469	2,365	6.5	26.3	27.6	37.2
Industrial .....	755	764	815	.8	14.8	14.3	12.8
Other .....	493	484	NA	NM	9.7	9.1	NA
Transportation .....	NA	NA	9	NM	NA	NA	.1
Total .....	5,095	5,324	6,364	2.5	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.75	7.51	7.76	*	NA	NA	NA
Commercial .....	5.84	5.61	5.74	-2	NA	NA	NA
Industrial .....	4.16	3.82	4.23	.2	NA	NA	NA
Other .....	5.63	4.98	NA	NM	NA	NA	NA
Transportation .....	NA	NA	5.46	NM	NA	NA	NA
Total .....	6.20	5.88	6.27	.1	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Virginia</b>								
Number of Entities.....	5	16	1	13	1	1	2	39
Number of Retail Customers.....	2,728,215	159,588	1	411,861	1	2,238	NA	3,301,904
Retail Sales (thousand megawatthours).....	87,990	4,691	9	8,634	155	31	NA	101,510
Percentage of Retail Sales.....	86.68	4.62	.01	8.51	.15	.03	NA	100.00
Revenue from Retail Sales (million dollars).....	5,351	261	*	743	6	2	1	6,364
Percentage of Revenue.....	84.08	4.10	*	11.67	.10	.03	.02	100.00
Average Retail Price (cents/kWh).....	6.08	5.56	2.75	8.60	4.08	5.50	4.35	6.27

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Washington</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Hydro
Net Summer Capability (megawatts).....	27,689	11
Electric Utilities .....	24,216	4
Independent Power Producers & Combined Heat and Power .....	3,473	26
Net Generation (megawatthours).....	100,094,691	13
Electric Utilities .....	82,205,391	12
Independent Power Producers & Combined Heat and Power .....	17,889,301	15
Emissions (thousand metric tons)		
Sulfur Dioxide .....	16	43
Nitrogen Oxide.....	26	39
Carbon Dioxide.....	14,984	39
Sulfur Dioxide (lbs/MWh).....	.3	48
Nitrogen Oxide (lbs/MWh).....	.6	47
Carbon Dioxide (lbs/MWh).....	330	49
Total Retail Sales (megawatthours).....	78,133,501	16
Full Service Provider Sales (megawatthours).....	76,112,939	18
Deregulated Sales (megawatthours).....	2,020,562	14
Direct Use (megawatthours).....	1,392,566	26
Average Retail Price (cents/kWh).....	5.86	41

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Washington</b>			
1. Grand Coulee.....	Hydro	U S Bureau of Reclamation	7,079
2. Chief Joseph.....	Hydro	USCE-North Pacific Division	2,337
3. TransAlta Centralia Generation .....	Petroleum, Gas, Coal	TransAlta Centralia Gen LLC	1,661
4. Rocky Reach .....	Hydro	PUD No 1 of Chelan County	1,279
5. Columbia Generating Station.....	Nuclear	Energy Northwest	1,108
6. Boundary .....	Hydro	Seattle City of	1,050
7. Wanapum.....	Hydro	PUD No 2 of Grant County	969
8. Little Goose.....	Hydro	USCE-North Pacific Division	932
9. Lower Monumental.....	Hydro	USCE-North Pacific Division	932
10. Lower Granite.....	Hydro	USCE-North Pacific Division	932

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Washington</b>						
1. Puget Sound Energy Inc.....	Investor-Owned	19,591,637	9,873,840	8,331,965	1,385,832	0
2. Seattle City of.....	Public	8,905,944	2,942,881	4,771,046	1,149,914	42,103
3. PUD No 1 of Snohomish County.....	Public	6,064,884	3,073,454	2,124,000	867,430	0
4. Avista Corporation.....	Investor-Owned	5,116,904	2,263,661	2,041,675	811,568	0
5. PUD No 1 of Cowlitz County.....	Public	4,217,346	684,110	362,576	3,170,660	0
Total Sales, Top Five Providers.....		43,896,715	18,837,946	17,631,262	7,385,404	42,103
Percent of Total State Sales.....		56	59	63	41	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Washington</b>							
<b>Electric Utilities.....</b>	<b>24,255</b>	<b>25,235</b>	<b>24,216</b>	<b>*</b>	<b>96.3</b>	<b>96.4</b>	<b>87.5</b>
Coal.....	1,390	1,390	0	NM	5.5	5.3	.0
Petroleum.....	88	62	39	-8.6	.3	.2	.1
Natural Gas.....	0	248	310	NM	.0	.9	1.1
Dual Fired.....	590	590	843	4.0	2.3	2.3	3.0
Nuclear.....	1,086	1,123	1,108	.2	4.3	4.3	4.0
Hydroelectric.....	20,740	21,479	21,408	.4	82.3	82.1	77.3
Other Renewables.....	47	83	194	17.1	.2	.3	.7
Pumped Storage.....	314	260	314	.0	1.2	1.0	1.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power.....</b>	<b>934</b>	<b>932</b>	<b>3,473</b>	<b>15.7</b>	<b>3.7</b>	<b>3.6</b>	<b>12.5</b>
Coal.....	2	2	1,407	107.2	*	*	5.1
Natural Gas.....	422	525	938	9.3	1.7	2.0	3.4
Dual Fired.....	256	149	672	11.3	1.0	.6	2.4
Hydroelectric.....	93	100	48	-7.1	.4	.4	.2
Other Renewables.....	161	156	408	10.9	.6	.6	1.5
<b>Total Electric Industry.....</b>	<b>25,190</b>	<b>26,167</b>	<b>27,689</b>	<b>1.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,392	1,392	1,407	.1	5.5	5.3	5.1
Petroleum.....	88	62	39	-8.6	.3	.2	.1
Natural Gas.....	423	773	1,247	12.8	1.7	3.0	4.5
Dual Fired.....	846	739	1,515	6.7	3.4	2.8	5.5
Nuclear.....	1,086	1,123	1,108	.2	4.3	4.3	4.0
Hydroelectric.....	20,833	21,579	21,457	.3	82.7	82.5	77.5
Other Renewables.....	208	239	602	12.5	.8	.9	2.2
Pumped Storage.....	314	260	314	.0	1.2	1.0	1.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Washington</b>							
<b>Electric Utilities</b> .....	<b>82,347,668</b>	<b>97,127,552</b>	<b>82,205,391</b>	*	<b>93.0</b>	<b>95.1</b>	<b>82.1</b>
Coal.....	9,800,260	9,290,499	0	NM	11.1	9.1	.0
Petroleum.....	5,728	38,598	7,851	3.6	*	*	*
Natural Gas.....	206,234	1,135,268	2,256,386	30.5	.2	1.1	2.3
Nuclear.....	6,739,749	6,916,065	7,614,708	1.4	7.6	6.8	7.6
Hydroelectric.....	65,200,038	79,409,678	71,540,502	1.0	73.6	77.7	71.5
Other Renewables.....	395,659	337,444	789,237	8.0	.4	.3	.8
Pumped Storage.....	0	0	-3,293	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>6,238,808</b>	<b>5,030,956</b>	<b>17,889,300</b>	<b>12.4</b>	<b>7.0</b>	<b>4.9</b>	<b>17.9</b>
Coal.....	31,072	21,706	11,089,796	92.1	*	*	11.1
Petroleum.....	39,691	48,445	58,741	4.5	*	*	.1
Natural Gas.....	4,614,348	3,211,081	4,826,219	.5	5.2	3.1	4.8
Other Gases.....	299,161	348,881	303,188	.1	.3	.3	.3
Hydroelectric.....	375,449	404,974	216,281	-5.9	.4	.4	.2
Other Renewables.....	847,805	994,328	1,395,075	5.7	1.0	1.0	1.4
Other.....	31,282	1,541	0	NM	*	*	.0
<b>Total Electric Industry</b> .....	<b>88,586,476</b>	<b>102,158,508</b>	<b>100,094,691</b>	<b>1.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	9,831,332	9,312,205	11,089,796	1.3	11.1	9.1	11.1
Petroleum.....	45,419	87,043	66,592	4.3	.1	.1	.1
Natural Gas.....	4,820,582	4,346,349	7,082,605	4.4	5.4	4.3	7.1
Other Gases.....	299,161	348,881	303,188	.1	.3	.3	.3
Nuclear.....	6,739,749	6,916,065	7,614,708	1.4	7.6	6.8	7.6
Hydroelectric.....	65,575,487	79,814,652	71,756,783	1.0	74.0	78.1	71.7
Other Renewables.....	1,243,464	1,331,772	2,184,312	6.5	1.4	1.3	2.2
Pumped Storage.....	0	0	-3,293	NM	.0	.0	*
Other.....	31,282	1,541	0	NM	*	*	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Washington</b>				
Coal (cents per million Btu).....	136.5	148.7	W	W
Average heat value (Btu per pound).....	8,400	8,215	8,052	-0.5
Average sulfur Content (percent).....	.6	.6	1.0	5.0
Petroleum (cents per million Btu).....	472.0	405.3	W	W
Average heat value (Btu per gallon).....	139,934	139,908	145,439	.4
Average sulfur Content (percent).....	.3	.3	.3	-1.4
Natural Gas (cents per million Btu).....	471.2	325.9	415.3	-1.4
Average heat value (Btu per cubic foot).....	1,050	1,055	1,029	-2

See footnotes at end of tables.



**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Washington</b>				
Sulfur Dioxide				
Coal .....	65	66	8	-20.2
Petroleum .....	1	1	1	-3.9
Natural Gas .....	*	—	*	3.2
Other .....	9	1	7	-3.1
Total .....	74	69	16	-15.8
Nitrogen Oxide				
Coal .....	61	22	19	-12.2
Petroleum .....	*	*	*	-3.1
Gas .....	3	5	4	4.8
Other .....	3	3	3	.5
Total .....	67	30	26	-9.9
Carbon Dioxide				
Coal .....	10,087	9,971	11,209	1.2
Petroleum .....	238	292	254	.7
Gas .....	3,167	2,952	3,425	.9
Geothermal .....	—	—	—	NM
Other .....	37	35	96	11.3
Total .....	13,528	13,251	14,984	1.1

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Washington</b>							
Retail Sales (thousand megawatthours)							
Residential .....	29,673	31,362	31,872	0.8	34.0	33.1	40.8
Commercial .....	19,752	22,248	28,039	4.0	22.7	23.4	35.9
Industrial .....	34,065	37,616	18,180	-6.7	39.1	39.6	23.3
Other .....	3,643	3,645	NA	NM	4.2	3.8	NA
Transportation .....	NA	NA	42	NM	NA	NA	*
Total .....	87,133	94,873	78,134	-1.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,476	1,577	2,010	3.5	42.2	41.1	43.9
Commercial .....	932	1,071	1,701	6.9	26.6	27.9	37.1
Industrial .....	951	1,062	866	-1.0	27.2	27.6	18.9
Other .....	140	132	NA	NM	4.0	3.4	NA
Transportation .....	NA	NA	3	NM	NA	NA	.1
Total .....	3,499	3,841	4,580	3.0	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	4.97	5.03	6.31	2.7	NA	NA	NA
Commercial .....	4.72	4.81	6.07	2.8	NA	NA	NA
Industrial .....	2.79	2.64	4.76	6.1	NA	NA	NA
Other .....	3.83	3.61	NA	NM	NA	NA	NA
Transportation .....	NA	NA	6.45	NM	NA	NA	NA
Total .....	4.02	4.03	5.86	4.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Washington</b>								
Number of Entities.....	3	41	1	18	1	3	1	68
Number of Retail Customers.....	1,302,818	1,446,284	9	145,935	1	16	NA	2,895,063
Retail Sales (thousand megawatthours) .....	28,853	42,202	1,434	3,616	9	2,021	NA	78,134
Percentage of Retail Sales .....	36.93	54.01	1.83	4.63	.01	2.59	NA	100.00
Revenue from Retail Sales (million dollars) .....	1,793	2,357	47	200	*	171	12	4,580
Percentage of Revenue.....	39.15	51.45	1.04	4.37	*	3.74	.25	100.00
Average Retail Price (cents/kWh).....	6.22	5.58	3.31	5.53	2.50	8.47	.57	5.86

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

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Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>West Virginia</b>		
NERC Region(s).....		ECAR
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	16,124	24
Electric Utilities .....	10,164	23
Independent Power Producers & Combined Heat and Power .....	5,960	18
Net Generation (megawatthours).....	94,711,554	15
Electric Utilities .....	64,056,696	16
Independent Power Producers & Combined Heat and Power .....	30,654,858	10
Emissions (thousand metric tons)		
Sulfur Dioxide .....	508	6
Nitrogen Oxide .....	194	5
Carbon Dioxide .....	85,676	7
Sulfur Dioxide (lbs/MWh).....	11.8	3
Nitrogen Oxide (lbs/MWh).....	4.5	5
Carbon Dioxide (lbs/MWh).....	1,994	10
Total Retail Sales (megawatthours).....	28,296,993	35
Full Service Provider Sales (megawatthours).....	28,296,993	35
Direct Use (megawatthours).....	1,816,264	23
Average Retail Price (cents/kWh).....	5.13	49

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>West Virginia</b>			
1. John E Amos .....	Petroleum, Coal	Appalachian Power Co	2,900
2. Harrison Power Station.....	Gas, Coal	Allegheny Energy Supply Co LLC	1,933
3. Mitchell.....	Petroleum, Coal	Ohio Power Co	1,600
4. Mt Storm .....	Petroleum, Coal	Dominion Virginia Power	1,581
5. Mountaineer.....	Petroleum, Coal	Appalachian Power Co	1,300
6. Pleasants Power Station .....	Gas, Coal	Allegheny Energy Supply Co LLC	1,278
7. Fort Martin Power Station .....	Petroleum, Coal	Allegheny Energy Supply Co LLC	1,107
8. Philip Sporn.....	Petroleum, Coal	Appalachian Power Co	1,020
9. Kammer .....	Petroleum, Coal	Ohio Power Co	600
10. Ceredo Generating Station .....	Gas	Orion Power Operating Services	457

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>West Virginia</b>						
1. Appalachian Power Co.....	Investor-Owned	12,970,334	5,321,721	3,596,536	4,052,077	0
2. Monongahela Power Co.....	Investor-Owned	10,327,815	3,131,350	2,388,251	4,808,214	0
3. Potomac Edison Co.....	Investor-Owned	2,858,398	1,440,177	677,463	740,758	0
4. Wheeling Power Co.....	Investor-Owned	1,857,555	413,557	391,616	1,052,382	0
5. Harrison Rural Elec Assn, Inc.....	Cooperative	58,500	49,520	8,980	0	0
Total Sales, Top Five Providers.....		28,072,602	10,356,325	7,062,846	10,653,431	0
Percent of Total State Sales .....		99	99	99	100	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>West Virginia</b>							
<b>Electric Utilities</b> .....	<b>14,510</b>	<b>14,495</b>	<b>10,164</b>	<b>-3.9</b>	<b>95.7</b>	<b>96.3</b>	<b>63.0</b>
Coal.....	14,393	14,381	10,108	-3.9	95.0	95.5	62.7
Petroleum.....	12	12	12	.0	.1	.1	.1
Hydroelectric.....	105	102	44	-9.2	.7	.7	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>648</b>	<b>561</b>	<b>5,960</b>	<b>28.0</b>	<b>4.3</b>	<b>3.7</b>	<b>37.0</b>
Coal.....	472	385	4,608	28.8	3.1	2.6	28.6
Natural Gas.....	0	0	765	NM	.0	.0	4.7
Other Gases.....	25	25	95	16.0	.2	.2	.6
Dual Fired.....	11	11	292	44.0	.1	.1	1.8
Hydroelectric.....	140	140	134	-5	.9	.9	.8
Other Renewables.....	0	0	66	NM	.0	.0	.4
<b>Total Electric Industry</b> .....	<b>15,158</b>	<b>15,055</b>	<b>16,124</b>	<b>.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	14,865	14,765	14,716	-1	98.1	98.1	91.3
Petroleum.....	12	12	12	.0	.1	.1	.1
Natural Gas.....	0	0	764	NM	.0	.0	4.7
Other Gases.....	25	25	95	16.0	.2	.2	.6
Dual Fired.....	11	11	292	44.0	.1	.1	1.8
Hydroelectric.....	245	242	179	-3.4	1.6	1.6	1.1
Other Renewables.....	0	0	66	NM	.0	.0	.4

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>West Virginia</b>							
<b>Electric Utilities</b> .....	<b>77,702,716</b>	<b>89,605,447</b>	<b>64,056,696</b>	<b>-2.1</b>	<b>95.4</b>	<b>96.5</b>	<b>67.6</b>
Coal.....	77,063,151	89,007,644	63,499,194	-2.1	94.6	95.9	67.0
Petroleum.....	251,487	194,277	210,060	-2.0	.3	.2	.2
Natural Gas.....	25,075	42,195	3,998	-18.5	*	*	*
Hydroelectric.....	363,003	361,331	322,664	-1.3	.4	.4	.3
Other Renewables.....	0	0	20,780	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>3,726,826</b>	<b>3,216,739</b>	<b>30,654,858</b>	<b>26.4</b>	<b>4.6</b>	<b>3.5</b>	<b>32.4</b>
Coal.....	2,565,415	2,205,711	28,969,789	30.9	3.1	2.4	30.6
Petroleum.....	20,403	6,668	37,837	7.1	*	*	*
Natural Gas.....	145,464	142,278	273,839	7.3	.2	.2	.3
Other Gases.....	212,708	136,854	169,782	-2.5	.3	.1	.2
Hydroelectric.....	782,632	725,013	1,033,367	3.1	1.0	.8	1.1
Other Renewables.....	0	0	170,242	NM	.0	.0	.2
Other.....	204	215	0	NM	.0	.0	.0
<b>Total Electric Industry</b> .....	<b>81,429,542</b>	<b>92,822,186</b>	<b>94,711,554</b>	<b>1.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	79,628,566	91,213,355	92,468,983	1.7	97.8	98.3	97.6
Petroleum.....	271,890	200,945	247,897	-1.0	.3	.2	.3
Natural Gas.....	170,539	184,473	277,837	5.6	.2	.2	.3
Other Gases.....	212,708	136,854	169,782	-2.5	.3	.1	.2
Hydroelectric.....	1,145,635	1,086,344	1,356,031	1.9	1.4	1.2	1.4
Other Renewables.....	0	0	191,022	NM	.0	.0	.2
Other.....	204	215	0	NM	.0	.0	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>West Virginia</b>				
Coal (cents per million Btu).....	139.2	122.2	124.6	-1.2
Average heat value (Btu per pound).....	12,468	12,305	12,166	-.3
Average sulfur Content (percent).....	1.9	1.9	1.7	-1.1
Petroleum (cents per million Btu).....	442.4	370.9	724.6	5.6
Average heat value (Btu per gallon).....	139,324	139,186	140,526	.1
Average sulfur Content (percent).....	.1	.1	.2	8.3
Natural Gas (cents per million Btu).....	400.1	351.4	632.7	5.2
Average heat value (Btu per cubic foot).....	1,000	1,000	1,024	.3

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>West Virginia</b>				
<b>Sulfur Dioxide</b>				
Coal.....	990	596	507	-7.2
Petroleum.....	*	*	*	1.2
Natural Gas.....	—	—	—	NM
Other.....	—	—	*	NM
Total.....	991	596	508	-7.2
<b>Nitrogen Oxide</b>				
Coal.....	284	277	193	-4.2
Petroleum.....	*	*	*	-7.8
Gas.....	1	1	*	-11.1
Other.....	—	—	*	NM
Total.....	285	278	194	-4.2
<b>Carbon Dioxide</b>				
Coal.....	73,357	82,673	85,056	1.7
Petroleum.....	253	169	189	-3.2
Gas.....	374	542	416	1.2
Geothermal.....	—	—	—	NM
Other.....	—	—	14	NM
Total.....	73,984	83,384	85,676	1.6

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>West Virginia</b>							
Retail Sales (thousand megawatthours)							
Residential.....	8,663	9,053	10,473	2.1	35.0	34.1	37.0
Commercial.....	5,539	6,208	7,136	2.8	22.4	23.4	25.2
Industrial.....	10,482	11,161	10,687	.2	42.3	42.1	37.8
Other.....	92	89	NA	NM	.4	.3	NA
Total.....	24,776	26,511	28,297	1.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	551	570	654	1.9	42.4	42.4	45.1
Commercial.....	323	345	389	2.1	24.8	25.6	26.8
Industrial.....	417	422	408	-.2	32.1	31.4	28.1
Other.....	9	8	NA	NM	.7	.6	NA
Total.....	1,300	1,345	1,450	1.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	6.36	6.29	6.24	-.2	NA	NA	NA
Commercial.....	5.83	5.56	5.45	-.8	NA	NA	NA
Industrial.....	3.98	3.78	3.81	-.5	NA	NA	NA
Other.....	9.44	9.39	NA	NM	NA	NA	NA
Total.....	5.25	5.07	5.13	-.3	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>West Virginia</b>								
Number of Entities.....	11	2	NA	3	1	NA	NA	17
Number of Retail Customers.....	961,675	3,516	NA	9,318	1	NA	NA	974,510
Retail Sales (thousand megawatthours).....	28,109	71	NA	96	22	NA	NA	28,297
Percentage of Retail Sales.....	99.33	.25	NA	.34	.08	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,436	4	NA	9	1	NA	NA	1,450
Percentage of Revenue.....	99.04	.30	NA	.59	.07	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.11	6.24	NA	8.94	4.35	NA	NA	5.13

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*'.)

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Wisconsin</b>		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	14,309	25
Electric Utilities .....	12,569	19
Independent Power Producers & Combined Heat and Power .....	1,739	33
Net Generation (megawatthours).....	60,122,425	23
Electric Utilities .....	56,068,698	18
Independent Power Producers & Combined Heat and Power .....	4,053,726	37
Emissions (thousand metric tons)		
Sulfur Dioxide .....	232	18
Nitrogen Oxide .....	94	17
Carbon Dioxide .....	48,410	19
Sulfur Dioxide (lbs/MWh).....	8.5	11
Nitrogen Oxide (lbs/MWh).....	3.4	15
Carbon Dioxide (lbs/MWh).....	1,775	15
Total Retail Sales (megawatthours).....	67,241,494	22
Full Service Provider Sales (megawatthours).....	67,241,494	21
Direct Use (megawatthours).....	2,755,932	17
Average Retail Price (cents/kWh).....	6.64	26

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Wisconsin</b>			
1. Pleasant Prairie.....	Petroleum, Gas, Coal	Wisconsin Electric Power Co	1,226
2. South Oak Creek.....	Gas, Coal	Wisconsin Electric Power Co	1,153
3. Columbia .....	Petroleum, Coal	Wisconsin Power & Light Co	1,109
4. Point Beach .....	Petroleum, Nuclear	Wisconsin Electric Power Co	1,041
5. Edgewater .....	Petroleum, Other, Coal	Wisconsin Power & Light Co	831
6. Weston .....	Gas, Coal	Wisconsin Public Service Corp	553
7. Kewaunee .....	Nuclear	Wisconsin Public Service Corp	539
8. RockGen Energy Center .....	Petroleum, Gas	RockGen Energy LLC	467
9. Pulliam.....	Gas, Coal	Wisconsin Public Service Corp	463
10. Paris .....	Petroleum, Gas	Wisconsin Electric Power Co	400

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Wisconsin</b>						
1. Wisconsin Electric Power Co .....	Investor-Owned	24,858,918	7,761,420	8,515,815	8,581,683	0
2. Wisconsin Public Service Corp.....	Investor-Owned	10,388,244	2,969,607	3,472,094	3,946,543	0
3. Wisconsin Power & Light Co.....	Investor-Owned	10,034,852	3,338,576	2,188,777	4,507,499	0
4. Northern States Power Co.....	Investor-Owned	5,726,898	1,828,670	1,093,670	2,804,558	0
5. Madison Gas & Electric Co.....	Investor-Owned	3,081,367	800,535	1,981,383	299,449	0
Total Sales, Top Five Providers.....		54,090,279	16,698,808	17,251,739	20,139,732	0
Percent of Total State Sales .....		80	78	86	78	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Wisconsin</b>							
<b>Electric Utilities</b> .....	<b>11,265</b>	<b>11,863</b>	<b>12,569</b>	<b>1.2</b>	<b>94.9</b>	<b>91.8</b>	<b>87.8</b>
Coal.....	7,182	7,198	7,123	-.1	60.5	55.7	49.8
Petroleum.....	796	854	618	-2.8	6.7	6.6	4.3
Natural Gas.....	98	235	417	17.5	.8	1.8	2.9
Dual Fired.....	1,146	1,579	2,382	8.5	9.7	12.2	16.6
Nuclear.....	1,499	1,494	1,565	.5	12.6	11.6	10.9
Hydroelectric.....	440	443	427	-.3	3.7	3.4	3.0
Other Renewables.....	104	60	37	-10.8	.9	.5	.3
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>607</b>	<b>1,056</b>	<b>1,739</b>	<b>12.4</b>	<b>5.1</b>	<b>8.2</b>	<b>12.2</b>
Coal.....	408	448	316	-2.8	3.4	3.5	2.2
Petroleum.....	8	3	3	-10.3	.1	*	*
Natural Gas.....	15	21	189	32.5	.1	.2	1.3
Dual Fired.....	45	461	956	40.4	.4	3.6	6.7
Hydroelectric.....	65	54	50	-2.9	.5	.4	.3
Other Renewables.....	66	69	204	13.4	.6	.5	1.4
Other.....	0	0	21	NM	.0	.0	.1
<b>Total Electric Industry</b> .....	<b>11,872</b>	<b>12,919</b>	<b>14,309</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	7,590	7,646	7,439	-.2	63.9	59.2	52.0
Petroleum.....	804	857	621	-2.8	6.8	6.6	4.3
Natural Gas.....	113	256	606	20.5	1.0	2.0	4.2
Dual Fired.....	1,191	2,040	3,338	12.1	10.0	15.8	23.3
Nuclear.....	1,499	1,494	1,565	.5	12.6	11.6	10.9
Hydroelectric.....	506	497	478	-.6	4.3	3.8	3.3
Other Renewables.....	169	129	241	4.0	1.4	1.0	1.7
Other.....	0	0	21	NM	.0	.0	.1

See footnotes at end of tables.



**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Wisconsin</b>							
<b>Electric Utilities</b> .....	<b>49,437,481</b>	<b>52,529,065</b>	<b>56,068,698</b>	<b>1.4</b>	<b>94.4</b>	<b>93.1</b>	<b>93.3</b>
Coal.....	35,282,695	39,785,759	40,579,973	1.6	67.4	70.5	67.5
Petroleum.....	171,563	200,225	185,625	.9	.3	.4	.3
Natural Gas.....	286,969	1,187,522	1,131,999	16.5	.5	2.1	1.9
Nuclear.....	11,516,469	9,397,174	12,215,463	.7	22.0	16.6	20.3
Hydroelectric.....	1,914,414	1,517,765	1,623,369	-1.8	3.7	2.7	2.7
Other Renewables.....	265,371	440,620	332,269	2.5	.5	.8	.6
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,921,474</b>	<b>3,918,366</b>	<b>4,053,726</b>	<b>3.7</b>	<b>5.6</b>	<b>6.9</b>	<b>6.7</b>
Coal.....	1,196,324	1,238,234	1,137,243	-6	2.3	2.2	1.9
Petroleum.....	258,100	291,270	287,162	1.2	.5	.5	.5
Natural Gas.....	317,686	1,296,753	1,346,392	17.4	.6	2.3	2.2
Hydroelectric.....	313,895	229,659	219,926	-3.9	.6	.4	.4
Other Renewables.....	835,469	862,450	1,034,221	2.4	1.6	1.5	1.7
Other.....	0	0	28,782	NM	.0	.0	*
<b>Total Electric Industry</b> .....	<b>52,358,955</b>	<b>56,447,431</b>	<b>60,122,425</b>	<b>1.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	36,479,019	41,023,993	41,717,216	1.5	69.7	72.7	69.4
Petroleum.....	429,663	491,495	472,787	1.1	.8	.9	.8
Natural Gas.....	604,655	2,484,275	2,478,391	17.0	1.2	4.4	4.1
Nuclear.....	11,516,469	9,397,174	12,215,463	.7	22.0	16.6	20.3
Hydroelectric.....	2,228,309	1,747,424	1,843,295	-2.1	4.3	3.1	3.1
Other Renewables.....	1,100,840	1,303,070	1,366,490	2.4	2.1	2.3	2.3
Other.....	0	0	28,782	NM	.0	.0	*

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Wisconsin</b>				
Coal (cents per million Btu).....	120.9	107.4	W	W
Average heat value (Btu per pound).....	9,565	9,299	9,006	-0.7
Average sulfur Content (percent).....	.5	.5	.4	-3.2
Petroleum (cents per million Btu).....	220.8	83.4	W	W
Average heat value (Btu per gallon).....	103,860	75,080	134,342	2.9
Average sulfur Content (percent).....	3.0	5.3	5.3	6.7
Natural Gas (cents per million Btu).....	263.4	264.1	581.8	9.2
Average heat value (Btu per cubic foot).....	1,011	1,013	1,002	-1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Wisconsin</b>				
Sulfur Dioxide				
Coal .....	217	222	215	-0.1
Petroleum .....	18	3	9	-7.6
Natural Gas .....	—	*	*	NM
Other .....	21	5	9	-9.5
Total .....	255	231	232	-1.1
Nitrogen Oxide				
Coal .....	180	113	87	-7.8
Petroleum .....	2	1	2	2.9
Gas .....	2	2	2	1.2
Other .....	5	4	3	-6.0
Total .....	189	121	94	-7.5
Carbon Dioxide				
Coal .....	38,896	44,312	45,549	1.8
Petroleum .....	869	844	932	.8
Gas .....	833	1,948	1,753	8.6
Geothermal .....	—	—	—	NM
Other .....	1	1	176	81.8
Total .....	40,599	47,105	48,410	2.0

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Wisconsin</b>							
Retail Sales (thousand megawatthours)							
Residential .....	17,660	19,087	21,364	2.1	31.9	30.8	31.8
Commercial .....	14,378	16,193	20,056	3.8	25.9	26.1	29.8
Industrial .....	22,714	26,040	25,821	1.4	41.0	42.0	38.4
Other .....	659	741	NA	NM	1.2	1.2	NA
Total .....	55,412	62,061	67,241	2.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,250	1,369	1,853	4.5	41.3	40.5	41.5
Commercial .....	844	951	1,397	5.8	27.9	28.2	31.3
Industrial .....	883	1,004	1,217	3.6	29.2	29.7	27.2
Other .....	46	52	NA	NM	1.5	1.5	NA
Total .....	3,023	3,376	4,468	4.4	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.08	7.17	8.67	2.3	NA	NA	NA
Commercial .....	5.87	5.87	6.97	1.9	NA	NA	NA
Industrial .....	3.89	3.86	4.71	2.1	NA	NA	NA
Other .....	7.00	7.01	NA	NM	NA	NA	NA
Total .....	5.46	5.44	6.64	2.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Wisconsin</b>								
Number of Entities.....	12	82	NA	25	6	NA	NA	125
Number of Retail Customers.....	2,262,424	254,781	NA	236,036	6	NA	NA	2,753,247
Retail Sales (thousand megawatthours) .....	56,396	7,500	NA	3,282	63	NA	NA	67,241
Percentage of Retail Sales .....	83.87	11.15	NA	4.88	.09	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	3,780	412	NA	273	2	NA	NA	4,468
Percentage of Revenue.....	84.61	9.22	NA	6.12	.05	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.70	5.49	NA	8.33	3.58	NA	NA	6.64

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Wyoming</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	6,562	37
Electric Utilities .....	6,088	30
Independent Power Producers & Combined Heat and Power .....	475	45
Net Generation (megawatthours).....	43,626,602	32
Electric Utilities .....	42,261,405	23
Independent Power Producers & Combined Heat and Power .....	1,365,197	42
Emissions (thousand metric tons)		
Sulfur Dioxide .....	84	27
Nitrogen Oxide.....	81	20
Carbon Dioxide.....	45,320	22
Sulfur Dioxide (lbs/MWh).....	4.2	29
Nitrogen Oxide (lbs/MWh).....	4.1	8
Carbon Dioxide (lbs/MWh).....	2,290	2
Total Retail Sales (megawatthours).....	13,253,836	40
Full Service Provider Sales (megawatthours).....	13,253,836	40
Direct Use (megawatthours).....	661,603	33
Average Retail Price (cents/kWh).....	4.76	50

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Wyoming</b>			
1. Jim Bridger.....	Petroleum, Coal	PacifiCorp	2,120
2. Laramie River Station.....	Petroleum, Coal	Basin Electric Power Coop	1,650
3. Dave Johnston.....	Petroleum, Coal	PacifiCorp	762
4. Naughton.....	Gas, Coal	PacifiCorp	700
5. Wyodak.....	Petroleum, Coal	PacifiCorp	335
6. Wyoming Wind Energy Center.....	Other	FPL Energy Wyoming Wind LLC	144
7. Neil Simpson II.....	Petroleum, Gas, Coal	Black Hills Corp	114
8. Wygen 1.....	Gas, Coal	Black Hills Corp	70
9. Fremont Canyon.....	Hydro	U S Bureau of Reclamation	67
10. Seminoe.....	Hydro	U S Bureau of Reclamation	52

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003  
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Wyoming</b>						
1. PacifiCorp.....	Investor-Owned	7,647,089	940,823	1,250,679	5,455,587	0
2. Powder River Energy Corp.....	Cooperative	1,826,531	160,896	741,122	924,513	0
3. Cheyenne Light Fuel & Power Co.....	Investor-Owned	920,767	221,144	342,379	357,244	0
4. High Plains Power, Inc.....	Cooperative	732,903	118,837	59,917	554,149	0
5. Lower Valley Energy Inc.....	Cooperative	522,376	293,128	218,990	10,258	0
Total Sales, Top Five Providers.....		11,649,666	1,734,828	2,613,087	7,301,751	0
Percent of Total State Sales.....		88	76	80	95	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Wyoming</b>							
<b>Electric Utilities</b> .....	<b>5,874</b>	<b>6,018</b>	<b>6,088</b>	<b>0.4</b>	<b>98.5</b>	<b>98.5</b>	<b>92.8</b>
Coal.....	5,567	5,710	5,692	.2	93.3	93.4	86.7
Petroleum.....	15	10	5	-11.5	.3	.2	.1
Natural Gas.....	0	0	85	NM	.0	.0	1.3
Hydroelectric.....	292	298	300	.3	4.9	4.9	4.6
Other Renewables.....	0	0	6	NM	.0	.0	.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>92</b>	<b>94</b>	<b>475</b>	<b>20.0</b>	<b>1.5</b>	<b>1.5</b>	<b>7.2</b>
Coal.....	28	28	100	15.2	.5	.5	1.5
Petroleum.....	0	1	4	NM	.0	*	.1
Natural Gas.....	50	51	92	7.0	.8	.8	1.4
Other Gases.....	3	2	0	NM	*	*	.0
Other Renewables.....	0	1	279	NM	.0	*	4.3
Other.....	11	11	0	NM	.2	.2	.0
<b>Total Electric Industry</b> .....							
<b>5,966</b>	<b>6,112</b>	<b>6,562</b>	<b>1.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	5,595	5,738	5,792	.4	93.8	93.9	88.3
Petroleum.....	15	11	8	-6.7	.3	.2	.1
Natural Gas.....	50	51	177	15.1	.8	.8	2.7
Other Gases.....	3	2	0	NM	*	*	.0
Hydroelectric.....	292	298	300	.3	4.9	4.9	4.6
Other Renewables.....	0	1	285	NM	.0	*	4.3
Other.....	11	11	0	NM	.2	.2	.0

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Wyoming</b>							
<b>Electric Utilities</b> .....	<b>42,337,169</b>	<b>44,699,071</b>	<b>42,261,405</b>	<b>*</b>	<b>98.5</b>	<b>98.6</b>	<b>96.9</b>
Coal.....	41,380,267	43,287,140	41,490,825	*	96.2	95.5	95.1
Petroleum.....	47,029	42,871	41,567	-1.4	.1	.1	.1
Natural Gas.....	12,664	26,738	119,729	28.4	*	.1	.3
Hydroelectric.....	897,209	1,342,322	593,555	-4.5	2.1	3.0	1.4
Other Renewables.....	0	0	15,729	NM	.0	.0	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>665,116</b>	<b>648,225</b>	<b>1,365,197</b>	<b>8.3</b>	<b>1.5</b>	<b>1.4</b>	<b>3.1</b>
Coal.....	193,972	216,923	850,627	17.9	.5	.5	1.9
Petroleum.....	6,542	2,760	3,354	-7.2	*	*	*
Natural Gas.....	388,192	341,676	160,467	-9.3	.9	.8	.4
Other Gases.....	3,224	7,505	0	NM	*	*	.0
Other Renewables.....	18,440	2,045	350,749	38.7	*	*	.8
Other.....	54,746	77,316	0	NM	.1	.2	.0
<b>Total Electric Industry</b> .....							
<b>43,002,285</b>	<b>45,347,296</b>	<b>43,626,602</b>	<b>.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Coal.....	41,574,239	43,504,063	42,341,452	.2	96.7	95.9	97.1
Petroleum.....	53,571	45,631	44,921	-1.9	.1	.1	.1
Natural Gas.....	400,856	368,414	280,196	-3.9	.9	.8	.6
Other Gases.....	3,224	7,505	0	NM	*	*	.0
Hydroelectric.....	897,209	1,342,322	593,555	-4.5	2.1	3.0	1.4
Other Renewables.....	18,440	2,045	366,478	39.4	*	*	.8
Other.....	54,746	77,316	0	NM	.1	.2	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Wyoming</b>				
Coal (cents per million Btu).....	80.3	78.6	82.3	0.3
Average heat value (Btu per pound).....	8,766	8,794	8,826	.1
Average sulfur Content (percent).....	.5	.5	.5	-6
Petroleum (cents per million Btu).....	444.5	405.5	714.4	5.4
Average heat value (Btu per gallon).....	138,987	139,140	139,592	*
Average sulfur Content (percent).....	.3	.3	.3	-7
Natural Gas (cents per million Btu).....	561.4	796.0	W	W
Average heat value (Btu per cubic foot).....	1,033	1,044	997	-4

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Wyoming</b>				
<b>Sulfur Dioxide</b>				
Coal .....	86	93	84	-0.2
Petroleum .....	*	*	*	-21.9
Natural Gas .....	—	—	—	NM
Other.....	*	1	—	NM
Total .....	86	94	84	-3
<b>Nitrogen Oxide</b>				
Coal .....	197	98	81	-9.4
Petroleum .....	*	*	*	-10.3
Gas.....	1	1	*	-14.3
Other.....	*	—	—	NM
Total .....	198	98	81	-9.4
<b>Carbon Dioxide</b>				
Coal .....	43,652	46,050	45,106	.4
Petroleum .....	73	80	39	-6.7
Gas.....	252	265	174	-4.0
Geothermal.....	—	—	—	NM
Other.....	—	—	—	NM
Total .....	43,977	46,394	45,320	.3

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Wyoming</b>							
Retail Sales (thousand megawatthours)							
Residential.....	1,865	2,013	2,286	2.3	15.9	17.3	17.3
Commercial.....	2,428	2,490	3,282	3.4	20.8	21.4	24.8
Industrial.....	7,260	6,950	7,685	.6	62.1	59.7	58.0
Other.....	144	188	NA	NM	1.2	1.6	NA
Total.....	11,696	11,641	13,254	1.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	113	126	161	4.0	22.6	25.1	25.6
Commercial.....	122	131	189	5.0	24.4	26.1	30.0
Industrial.....	255	235	281	1.1	51.1	46.8	44.6
Other.....	9	10	NA	NM	1.8	2.0	NA
Total.....	499	502	630	2.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	6.04	6.28	7.04	1.7	NA	NA	NA
Commercial.....	5.02	5.25	5.74	1.5	NA	NA	NA
Industrial.....	3.51	3.38	3.65	.4	NA	NA	NA
Other.....	6.45	5.15	NA	NM	NA	NA	NA
Total.....	4.26	4.31	4.76	1.2	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Wyoming</b>								
Number of Entities.....	5	13	1	15	1	NA	NA	35
Number of Retail Customers.....	177,304	29,730	3	83,933	1	NA	NA	290,971
Retail Sales (thousand megawatthours).....	8,995	522	17	3,717	3	NA	NA	13,254
Percentage of Retail Sales.....	67.87	3.94	.13	28.05	.02	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	424	30	*	176	*	NA	NA	630
Percentage of Revenue.....	67.20	4.84	.05	27.91	.01	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.71	5.84	1.76	4.73	1.53	NA	NA	4.76

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table 1. 2003 Summary Statistics**

Item	Value	Highest	Lowest
<b>United States</b>			
Primary Energy Source.....	Coal		
Net Summer Capability (megawatts).....	948,446	Texas	District of Columbia
Electric Utilities.....	547,249	Florida	District of Columbia
Independent Power Producers & Combined Heat and Power.....	401,197	Texas	Nebraska
Net Generation (megawatthours).....	3,883,185,205	Texas	District of Columbia
Electric Utilities.....	2,462,280,615	Florida	Maine
Independent Power Producers & Combined Heat and Power.....	1,420,904,590	Texas	South Dakota
Emissions (thousand metric tons)			
Sulfur Dioxide.....	10,643	Ohio	Vermont
Nitrogen Oxide.....	4,326	Ohio	District of Columbia
Carbon Dioxide.....	2,415,804	Texas	Vermont
Sulfur Dioxide (lbs/MWh).....	6.0	Ohio	Vermont
Nitrogen Oxide (lbs/MWh).....	2.5	District of Columbia	Vermont
Carbon Dioxide (lbs/MWh).....	1,372	District of Columbia	Vermont
Total Retail Sales (megawatthours).....	3,489,222,898	Texas	Vermont
Full Service Sales (megawatthours).....	3,258,371,258	Texas	Maine
Deregulated Sales (megawatthours).....	230,851,640	California	Virginia
Direct Use (megawatthours).....	168,294,526	Texas	District of Columbia
Average Retail Price (cents/kWh).....	7.42	Hawaii	Kentucky

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>United States</b>			
1. Grand Coulee.....	Hydro	U S Bureau of Reclamation	7,079
2. Palo Verde.....	Nuclear	Arizona Public Service Co	3,825
3. W A Parish.....	Gas, Coal	CenterPoint Energy Houston Electric, LLC	3,653
4. Scherer.....	Petroleum, Coal	Georgia Power Co	3,430
5. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,297
6. Bowen.....	Petroleum, Coal	Georgia Power Co	3,254
7. Crystal River.....	Petroleum, Nuclear, Coal	Florida Power Corp	3,140
8. Gibson.....	Petroleum, Coal	PSI Energy Inc	3,131
9. Monroe.....	Petroleum, Coal	Detroit Edison Co	3,059
10. John E Amos.....	Petroleum, Coal	Appalachian Power Co	2,900

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003 (Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>United States</b>						
1. Florida Power & Light Co.....	Investor-Owned	99,339,144	53,400,788	41,847,336	3,997,822	93,198
2. TXU Energy Retail Co LP.....	Power Marketer	79,049,806	35,535,009	14,801,355	28,623,442	90,000
3. Georgia Power Co.....	Investor-Owned	75,018,318	21,778,582	27,356,003	25,703,421	180,312
4. Duke Energy Corp.....	Investor-Owned	73,763,185	24,078,658	24,802,709	24,881,818	0
5. Dominion Virginia Power.....	Investor-Owned	72,197,013	27,215,660	34,284,489	10,525,192	171,672
Total Sales, Top Five Providers.....		399,367,466	162,008,697	143,091,892	93,731,695	535,182

See footnotes at end of tables.



**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>United States</b>							
<b>Electric Utilities</b> .....	<b>702,229</b>	<b>686,692</b>	<b>547,249</b>	<b>- 2.7</b>	<b>91.9</b>	<b>88.5</b>	<b>57.7</b>
Coal.....	300,941	299,739	236,473	-2.6	39.4	38.6	24.9
Petroleum.....	41,296	38,144	20,766	-7.4	5.4	4.9	2.2
Natural Gas.....	51,239	40,764	48,233	-7	6.7	5.3	5.1
Other Gases.....	698	55	61	-23.7	.1	*	*
Dual Fired.....	110,633	114,201	89,183	-2.4	14.5	14.7	9.4
Nuclear.....	99,148	97,070	60,964	-5.3	13.0	12.5	6.4
Hydroelectric.....	74,787	75,525	72,827	-.3	9.8	9.7	7.7
Other Renewables.....	2,278	2,067	925	-9.5	.3	.3	.1
Pumped Storage.....	21,208	18,898	17,803	-1.9	2.8	2.4	1.9
Other.....	0	229	13	NM	.0	*	*
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>61,740</b>	<b>89,174</b>	<b>401,196</b>	<b>23.1</b>	<b>8.1</b>	<b>11.5</b>	<b>42.3</b>
Coal.....	10,474	16,047	76,546	24.7	1.4	2.1	8.1
Petroleum.....	1,399	2,254	15,663	30.8	.2	.3	1.7
Natural Gas.....	19,446	35,008	160,214	26.4	2.5	4.5	16.9
Other Gases.....	1,395	1,465	1,933	3.7	.2	.2	.2
Dual Fired.....	12,477	16,197	82,111	23.3	1.6	2.1	8.7
Nuclear.....	0	0	38,244	NM	.0	.0	4.0
Hydroelectric.....	3,255	3,625	5,867	6.8	.4	.5	.6
Other Renewables.....	12,744	13,377	17,274	3.4	1.7	1.7	1.8
Pumped Storage.....	0	620	2,719	NM	.0	.1	.3
Other.....	550	581	625	1.4	.1	.1	.1
<b>Total Electric Industry</b> .....	<b>763,967</b>	<b>775,868</b>	<b>948,446</b>	<b>2.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	311,415	315,786	313,019	.1	40.8	40.7	33.0
Petroleum.....	42,695	40,399	36,429	-1.7	5.6	5.2	3.8
Natural Gas.....	70,685	75,772	208,447	12.8	9.3	9.8	22.0
Other Gases.....	2,093	1,520	1,994	-.5	.3	.2	.2
Dual Fired.....	123,110	130,399	171,295	3.7	16.1	16.8	18.1
Nuclear.....	99,148	97,070	99,209	*	13.0	12.5	10.5
Hydroelectric.....	78,041	79,151	78,694	.1	10.2	10.2	8.3
Other Renewables.....	15,021	15,444	18,199	2.2	2.0	2.0	1.9
Pumped Storage.....	21,208	19,518	20,522	-.4	2.8	2.5	2.2
Other.....	550	810	638	1.7	.1	.1	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>United States</b>							
<b>Electric Utilities</b> .....	<b>2,910,712,079</b>	<b>3,212,170,791</b>	<b>2,462,280,615</b>	<b>-1.8</b>	<b>89.6</b>	<b>88.7</b>	<b>63.4</b>
Coal.....	1,635,492,971	1,807,479,829	1,500,281,112	-1.0	50.4	49.9	38.6
Petroleum.....	91,038,583	110,157,895	69,930,456	-2.9	2.8	3.0	1.8
Natural Gas.....	291,114,905	309,222,404	186,966,796	-4.8	9.0	8.5	4.8
Other Gases.....	0	0	242,655	NM	.0	.0	*
Nuclear.....	640,439,832	673,702,104	458,828,821	-3.6	19.7	18.6	11.8
Hydroelectric.....	247,070,938	308,843,770	249,621,996	.1	7.6	8.5	6.4
Other Renewables.....	8,932,675	7,205,997	3,940,660	-8.7	.3	.2	.1
Pumped Storage.....	-3,377,825	-4,441,208	-7,531,885	NM	-1	-1	-2
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>336,810,309</b>	<b>408,124,707</b>	<b>1,420,904,591</b>	<b>17.3</b>	<b>10.4</b>	<b>11.3</b>	<b>36.6</b>
Coal.....	55,200,897	66,035,861	473,455,637	27.0	1.7	1.8	12.2
Petroleum.....	14,862,401	18,642,268	49,475,181	14.3	.5	.5	1.3
Natural Gas.....	169,103,778	222,034,704	462,940,742	11.8	5.2	6.1	11.9
Other Gases.....	13,319,049	13,492,228	15,357,365	1.6	.4	.4	.4
Nuclear.....	0	0	304,903,874	NM	.0	.0	7.9
Hydroelectric.....	13,054,794	14,491,894	26,184,333	8.0	.4	.4	.7
Other Renewables.....	67,602,473	69,882,410	83,469,810	2.4	2.1	1.9	2.1
Pumped Storage.....	0	-26,072	-1,003,180	NM	.0	*	*
Other.....	3,666,926	3,571,410	6,120,827	5.9	.1	.1	.2
<b>Total Electric Industry</b> .....	<b>3,247,522,388</b>	<b>3,620,295,498</b>	<b>3,883,185,205</b>	<b>2.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,690,693,868	1,873,515,690	1,973,736,749	1.7	52.1	51.8	50.8
Petroleum.....	105,900,984	128,800,163	119,405,637	1.3	3.3	3.6	3.1
Natural Gas.....	460,218,683	531,257,108	649,907,538	3.9	14.2	14.7	16.7
Other Gases.....	13,319,049	13,492,228	15,600,020	1.8	.4	.4	.4
Nuclear.....	640,439,832	673,702,104	763,732,695	2.0	19.7	18.6	19.7
Hydroelectric.....	260,125,732	323,335,664	275,806,329	.7	8.0	8.9	7.1
Other Renewables.....	76,535,148	77,088,407	87,410,470	1.5	2.4	2.1	2.3
Pumped Storage.....	-3,377,825	-4,467,280	-8,535,065	NM	-1	-1	-2
Other.....	3,666,926	3,571,410	6,120,827	5.9	.1	.1	.2

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>United States</b>				
Coal (cents per million Btu).....	135.5	125.2	128.2	-0.6
Average heat value (Btu per pound).....	10,338	10,241	10,137	-2
Average sulfur Content (percent).....	1.2	1.1	1.0	-2.0
Petroleum (cents per million Btu).....	242.3	202.1	433.5	6.7
Average heat value (Btu per gallon).....	149,324	149,736	147,086	*
Average sulfur Content (percent).....	1.2	1.5	1.5	2.5
Natural Gas (cents per million Btu).....	223.0	238.1	539.3	10.3
Average heat value (Btu per cubic foot).....	1,023	1,022	1,030	.1

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>United States</b>				
Sulfur Dioxide				
Coal .....	13,398	11,402	9,687	-3.5
Petroleum .....	794	966	718	-1.1
Natural Gas .....	1	2	2	4.5
Other .....	279	139	235	-1.9
Total .....	14,473	12,509	10,643	-3.4
Nitrogen Oxide				
Coal .....	7,005	5,262	3,679	-6.9
Petroleum .....	159	230	189	1.9
Gas .....	513	608	314	-5.3
Other .....	124	138	145	1.8
Total .....	7,802	6,235	4,326	-6.3
Carbon Dioxide				
Coal .....	1,679,301	1,860,572	1,948,054	1.7
Petroleum .....	103,010	123,326	110,519	.8
Gas .....	278,189	325,468	343,071	2.4
Geothermal .....	399	380	367	-9
Other .....	2,889	3,263	13,793	19.0
Total .....	2,063,788	2,313,013	2,415,804	1.8

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>United States</b>							
Retail Sales (thousand megawatthours)							
Residential .....	1,008,482	1,130,109	1,273,597	2.6	34.4	34.6	36.5
Commercial .....	820,269	979,401	1,197,199	4.3	27.9	30.0	34.3
Industrial .....	1,007,981	1,051,203	1,011,617	*	34.3	32.2	29.0
Other .....	97,830	103,518	NA	NM	3.3	3.2	NA
Transportation .....	NA	NA	6,810	NM	NA	NA	.2
Total .....	2,934,563	3,264,231	3,489,223	1.9	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	84,552	93,360	110,794	3.0	41.7	42.5	42.8
Commercial .....	63,396	72,575	95,759	4.7	31.3	33.0	37.0
Industrial .....	48,069	47,050	51,794	.8	23.7	21.4	20.0
Other .....	6,689	6,863	NA	NM	3.3	3.1	NA
Transportation .....	NA	NA	514	NM	NA	NA	.2
Total .....	202,706	219,848	258,861	2.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	8.38	8.26	8.70	.4	NA	NA	NA
Commercial .....	7.73	7.41	8.00	.4	NA	NA	NA
Industrial .....	4.77	4.48	5.12	.8	NA	NA	NA
Other .....	6.84	6.63	NA	NM	NA	NA	NA
Transportation .....	NA	NA	7.55	NM	NA	NA	NA
Total .....	6.91	6.74	7.42	.8	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>United States</b>								
Number of Entities.....	222	2,011	9	885	106	150	66	3,449
Number of Retail Customers.....	96,183,507	19,488,083	39,270	16,149,217	2,742	2,681,529	NA	134,544,348
Retail Sales (thousand megawatthours) .....	2,352,664	516,475	35,787	333,745	19,700	230,852	NA	3,489,223
Percentage of Retail Sales .....	67.43	14.80	1.03	9.57	.56	6.62	NA	100.00
Revenue from Retail Sales (million dollars) .....	175,883	36,165	1,039	23,906	981	13,497	7,390	258,861
Percentage of Revenue.....	67.95	13.97	.40	9.23	.38	5.21	2.85	100.00
Average Retail Price (cents/kWh).....	7.48	7.00	2.90	7.16	4.98	5.85	3.20	7.42

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

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

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

**Table A1. Selected Electric Industry Summary Statistics by State, 2003**

State	Primary Fuel Source	Total 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	30,162	10	137,487,223	8	453	9	152	8	80,325	9
Alaska	Gas	1,895	48	6,338,732	48	5	48	8	47	3,944	46
Arizona	Coal	23,510	15	94,396,217	16	63	31	80	22	46,655	20
Arkansas	Coal	13,549	27	50,401,101	27	79	29	46	34	27,220	32
California	Gas	57,850	2	192,788,544	4	17	42	60	31	55,855	16
Colorado	Coal	10,370	32	46,616,788	30	70	30	71	26	40,599	24
Connecticut	Nuclear	7,573	34	29,545,050	40	8	46	11	45	9,534	40
Delaware	Coal	3,392	44	7,392,288	47	36	37	13	41	6,996	45
District of Columbia	Petroleum	806	51	74,144	51	*	50	*	51	82	50
Florida	Gas	49,419	3	212,610,010	2	468	8	257	2	128,796	2
Georgia	Coal	34,815	7	124,076,834	11	586	5	121	14	79,356	10
Hawaii	Petroleum	2,268	47	10,976,371	44	23	39	13	42	8,545	42
Idaho	Hydro	3,002	45	10,422,937	45	6	47	3	48	1,103	49
Illinois	Nuclear	45,541	4	189,055,258	5	372	11	144	9	94,941	6
Indiana	Coal	25,641	14	124,888,218	10	744	3	248	4	116,590	5
Iowa	Coal	10,074	33	42,116,191	33	139	21	78	24	40,616	23
Kansas	Coal	10,876	31	46,567,560	31	128	23	86	19	38,463	26
Kentucky	Coal	19,068	20	91,718,820	19	483	7	169	7	85,573	8
Louisiana	Gas	25,749	13	94,885,041	14	194	20	96	15	55,863	15
Maine	Gas	4,285	42	18,971,638	43	20	41	11	44	7,662	43
Maryland	Coal	12,472	29	52,244,238	26	264	14	69	29	32,632	29
Massachusetts	Gas	13,877	26	48,385,024	29	82	28	33	37	27,197	33
Michigan	Coal	30,450	9	111,347,059	12	364	12	130	12	73,278	12
Minnesota	Coal	11,485	30	55,050,997	25	113	24	94	16	39,637	25
Mississippi	Coal	17,282	23	40,148,279	34	86	26	47	32	23,428	34
Missouri	Coal	19,977	19	87,225,088	20	258	16	136	11	75,640	11
Montana	Coal	5,210	40	26,268,727	41	23	40	37	36	18,659	38
Nebraska	Coal	6,684	36	30,455,984	39	63	32	46	33	21,376	36
Nevada	Coal	7,508	35	33,194,889	36	47	35	40	35	22,982	35
New Hampshire	Nuclear	4,244	43	21,597,105	42	52	33	10	46	7,600	44
New Jersey	Nuclear	18,647	21	57,399,351	24	49	34	32	38	20,194	37
New Mexico	Coal	6,288	38	32,735,653	37	46	36	71	27	31,158	31
New York	Nuclear	36,696	6	137,643,315	7	259	15	81	21	56,944	14
North Carolina	Coal	27,263	12	127,582,318	9	450	10	138	10	71,977	13
North Dakota	Coal	4,663	41	31,322,129	38	128	22	70	28	31,770	30
Ohio	Coal	34,060	8	146,638,129	6	1141	1	335	1	127,703	3
Oklahoma	Coal	18,238	22	60,626,856	22	110	25	86	18	48,521	18
Oregon	Hydro	12,883	28	48,966,138	28	13	44	12	43	8,765	41
Pennsylvania	Coal	42,368	5	206,349,516	3	912	2	177	6	119,184	4
Rhode Island	Gas	1,734	49	5,621,146	50	1	49	1	49	2,398	48
South Carolina	Nuclear	20,659	18	93,772,678	17	207	19	78	25	36,658	27
South Dakota	Hydro	2,690	46	7,943,837	46	12	45	15	40	3,649	47
Tennessee	Coal	20,893	17	92,221,791	18	344	13	129	13	55,820	17
Texas	Gas	99,594	1	379,199,685	1	614	4	252	3	254,955	1
Utah	Coal	5,797	39	38,023,666	35	32	38	68	30	34,423	28
Vermont	Nuclear	997	50	6,027,961	49	*	51	*	50	25	51
Virginia	Coal	21,258	16	75,309,421	21	237	17	79	23	46,125	21
Washington	Hydro	27,689	11	100,094,691	13	16	43	26	39	14,984	39
West Virginia	Coal	16,124	24	94,711,553	15	508	6	194	5	85,676	7
Wisconsin	Coal	14,309	25	60,122,425	23	232	18	94	17	48,410	19
Wyoming	Coal	6,562	37	43,626,602	32	84	27	81	20	45,319	22

**Table A1. Selected Electric Industry Summary Statistics by State, 2003 (Continued)**

State	Total Retail Sales		Full Service Sales (including unregulated generators)		Energy Service Providers		Direct Use		All Sectors Average Retail Price	
	(MWh)	Rank	(MWh)	Rank	(MWh)	Rank	(MWh)	Rank	(cents/kWh)	Rank
Alabama	83,844,220	15	83,844,220	15	0	0	6,481,099	5	5.88	40
Alaska	5,563,682	50	5,563,682	49	0	0	1,077,994	30	10.50	7
Arizona	64,079,560	23	64,079,560	22	0	0	373,797	39	7.34	17
Arkansas	43,108,259	30	43,108,259	30	0	0	2,393,069	20	5.57	44
California	238,709,728	2	172,746,724	3	65,963,004	1	15,183,496	3	11.62	3
Colorado	46,494,645	27	46,494,645	26	0	0	495,263	35	6.77	24
Connecticut	31,830,218	33	31,230,118	33	600,100	16	1,539,033	24	10.16	9
Delaware	12,599,590	42	10,488,250	42	2,111,340	13	563,430	34	6.96	19
District of Columbia	10,946,383	45	5,725,475	48	5,220,908	11	384	50	7.40	16
Florida	217,378,622	3	217,378,622	2	0	0	6,902,953	4	7.72	14
Georgia	123,676,657	8	123,676,657	6	0	0	5,556,906	6	6.32	32
Hawaii	10,390,836	47	10,390,836	44	0	0	480,116	36	14.47	1
Idaho	21,218,685	38	21,218,685	38	0	0	710,470	31	5.22	48
Illinois	136,247,891	7	115,070,513	8	21,177,378	4	4,275,912	10	6.86	21
Indiana	100,467,779	12	100,467,779	10	0	0	4,755,661	7	5.37	47
Iowa	41,207,284	31	41,207,284	31	0	0	1,350,833	27	6.11	36
Kansas	36,735,390	32	36,735,390	32	0	0	62,101	49	6.35	30
Kentucky	85,219,631	14	85,219,631	14	0	0	188,286	43	4.42	51
Louisiana	77,769,322	17	77,769,322	16	0	0	22,048,053	2	6.93	20
Maine	11,971,837	43	768,781	51	11,203,056	7	4,367,847	9	9.79	10
Maryland	71,258,583	21	59,692,937	24	11,565,646	6	1,197,044	28	6.45	28
Massachusetts	55,514,357	25	45,775,113	27	9,739,244	9	2,452,982	18	10.56	6
Michigan	108,877,193	10	98,765,181	12	10,112,012	8	2,919,243	16	6.85	23
Minnesota	63,087,339	24	63,087,339	23	0	0	2,928,218	15	6.01	39
Mississippi	45,543,881	28	45,543,881	28	0	0	2,382,755	21	6.46	27
Missouri	74,239,888	20	74,239,888	19	0	0	304,828	41	6.02	38
Montana	12,824,660	41	10,282,211	45	2,542,449	12	155,230	45	6.14	35
Nebraska	25,856,566	36	25,856,566	36	0	0	72,037	46	5.64	43
Nevada	30,131,660	34	30,131,660	34	0	0	232,260	42	8.29	12
New Hampshire	10,972,542	44	10,824,276	41	148,266	17	455,577	37	10.83	5
New Jersey	76,382,512	19	69,668,164	20	6,714,348	10	2,404,390	19	9.48	11
New Mexico	19,330,491	39	19,330,491	39	0	0	445,381	38	7.00	18
New York	144,044,703	5	100,387,510	11	43,657,193	2	4,216,899	11	12.44	2
North Carolina	121,335,121	9	121,335,121	7	0	0	4,091,493	12	6.86	22
North Dakota	10,461,108	46	10,461,108	43	0	0	166,558	44	5.47	45
Ohio	152,189,238	4	127,249,081	5	24,940,157	3	1,486,344	25	6.73	25
Oklahoma	50,428,168	26	50,428,168	25	0	0	1,152,560	29	6.35	31
Oregon	45,194,730	29	45,194,730	29	0	0	690,673	32	6.18	34
Pennsylvania	140,369,128	6	127,963,731	4	12,405,397	5	4,478,416	8	8.02	13
Rhode Island	7,796,626	49	7,096,649	47	699,977	15	64,968	48	10.47	8
South Carolina	77,054,098	18	77,054,098	17	0	0	2,041,837	22	6.08	37
South Dakota	9,079,990	48	9,079,990	46	0	0	0	0	6.35	29
Tennessee	97,455,808	13	97,455,808	13	0	0	3,389,262	13	5.84	42
Texas	322,685,955	1	322,685,955	1	0	0	41,705,982	1	7.50	15
Utah	23,860,350	37	23,860,350	37	0	0	360,206	40	5.41	46
Vermont	5,352,429	51	5,352,429	50	0	0	70,908	47	10.98	4
Virginia	101,509,731	11	101,479,128	9	30,603	18	2,995,409	14	6.27	33
Washington	78,133,501	16	76,112,939	18	2,020,562	14	1,392,566	26	5.86	41
West Virginia	28,296,993	35	28,296,993	35	0	0	1,816,264	23	5.13	49
Wisconsin	67,241,494	22	67,241,494	21	0	0	2,755,932	17	6.64	26
Wyoming	13,253,836	40	13,253,836	40	0	0	661,603	33	4.76	50