

State Electricity Profiles 2004

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Quality

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Preface

The State Electricity Profiles 2004 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 2 prior years within the past 10 years. The tables present summary statistics; ten largest plants by generating capacity; top five entities ranked by retail sales; electric power industry generating capacity by primary energy source; electric power industry generation of electricity by primary energy source; utility delivered fuel prices for coal, petroleum, and natural gas; electric power emissions estimates; retail sales, revenue, and average revenue per kilowatthour by sector; and utility retail sales statistics. 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. 2004 Summary Statistics

Item	Value	U.S. Rank
Alabama		
NERC Region(s).....		SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	30,647	9
Electric Utilities	23,186	8
Independent Power Producers & Combined Heat and Power	7,460	15
Net Generation (megawatthours).....	137,354,771	8
Electric Utilities	124,554,606	3
Independent Power Producers & Combined Heat and Power	12,800,165	22
Emissions (thousand metric tons)		
Sulfur Dioxide	409	10
Nitrogen Oxide	136	9
Carbon Dioxide	80,165	10
Sulfur Dioxide (lbs/MWh).....	6.6	16
Nitrogen Oxide (lbs/MWh).....	2.2	29
Carbon Dioxide (lbs/MWh).....	1,287	31
Total Retail Sales (megawatthours).....	86,870,519	14
Full Service Provider Sales (megawatthours).....	86,870,519	14
Direct Use (megawatthours).....	6,487,857	5
Average Retail Price (cents/kWh).....	6.08	40

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Alabama			
1. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,297
2. James H Miller Jr.....	Gas,Coal	Alabama Power Co	2,750
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	1,711
6. Widows Creek.....	Petroleum,Coal	Tennessee Valley Authority	1,603
7. Colbert	Gas,Petroleum,Coal	Tennessee Valley Authority	1,561
8. Greene County.....	Petroleum,Gas,Coal	Alabama Power Co	1,249
9. Gorgas.....	Petroleum,Coal	Alabama Power Co	1,235
10. H Allen Franklin Combined Cycle.....	Gas	Southern Power Co	1,139

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Alabama						
1. Alabama Power Co.....	Investor-Owned	54,243,900	17,368,321	14,016,449	22,859,130	0
2. Tennessee Valley Authority	Federal	6,158,370	0	0	6,158,370	0
3. Huntsville City of.....	Public	4,791,461	2,172,652	1,574,741	1,044,068	0
4. Decatur Utilities.....	Public	1,422,879	366,117	305,356	751,406	0
5. Joe Wheeler Elec Member Corp.....	Cooperative	1,160,849	568,519	244,564	347,766	0
Total Sales, Top Five Providers.....		67,777,459	20,475,609	16,141,110	31,160,740	0
Percent of Total State Sales		78.0	68.0	76.3	87.5	.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Alabama									
Electric Utilities	20,023	20,463	22,366	22,532	23,429	23,007	23,186	97.5	75.7
Coal.....	11,777	11,669	11,301	11,362	11,246	11,217	11,238	57.3	36.7
Petroleum.....	16	18	34	34	34	34	34	.1	.1
Natural Gas.....	0	509	1,456	1,572	2,605	1,976	2,119	.0	6.9
Dual Fired.....	449	478	1,585	1,585	1,577	1,574	1,507	2.2	4.9
Nuclear.....	4,847	4,835	4,976	4,966	4,966	4,972	5,008	23.6	16.3
Hydroelectric	2,934	2,955	3,014	3,014	3,002	3,234	3,280	14.3	10.7
Independent Power Producers and Combined									
Heat and Power	522	983	1,172	1,303	3,157	7,154	7,460	2.5	24.3
Coal.....	23	23	108	23	19	14	132	.1	.4
Petroleum.....	0	0	4	6	7	7	9	.0	*
Natural Gas.....	53	166	523	546	1,820	5,113	4,823	.3	15.7
Other Gases.....	90	122	80	0	0	4	84	.4	.3
Dual Fired.....	0	2	0	296	765	1,472	1,858	.0	6.1
Other Renewables.....	354	671	457	432	543	544	555	1.7	1.8
Total Electric Industry	20,544	21,446	23,539	23,835	26,586	30,162	30,647	100.0	100.0
Coal.....	11,800	11,692	11,409	11,385	11,265	11,231	11,370	57.4	37.1
Petroleum.....	16	18	38	39	41	41	43	.1	.1
Natural Gas.....	54	674	1,979	2,118	4,425	7,090	6,943	.3	22.7
Other Gases.....	90	122	80	0	4	4	84	.4	.3
Dual Fired.....	449	480	1,585	1,881	2,342	3,046	3,365	2.2	11.0
Nuclear.....	4,847	4,835	4,976	4,966	4,966	4,972	5,008	23.6	16.3
Hydroelectric	2,934	2,955	3,014	3,014	3,002	3,234	3,280	14.3	10.7
Other Renewables.....	354	671	457	432	543	544	555	1.7	1.8

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Alabama									
Electric Utilities	76,231,696	99,589,284	118,037,076	118,744,284	123,739,223	126,845,720	124,554,606	95.7	90.7
Coal.....	53,301,276	68,553,249	76,930,683	71,483,576	71,630,811	76,238,978	74,475,725	66.9	54.2
Petroleum.....	91,916	101,716	240,527	262,600	184,379	195,363	111,271	.1	.1
Natural Gas.....	420,115	680,468	3,679,672	8,284,663	11,242,320	6,069,559	7,705,600	.5	5.6
Nuclear.....	12,051,882	20,752,341	31,368,563	30,357,063	31,856,926	31,676,953	31,635,789	15.1	23.0
Hydroelectric.....	10,366,507	9,501,510	5,817,631	8,356,382	8,824,787	12,664,867	10,626,221	13.0	7.7
Independent Power Producers and Combined									
Heat and Power	3,420,437	5,600,082	6,368,264	6,600,829	9,181,447	10,641,502	12,800,165	4.3	9.3
Coal.....	356,839	494,385	587,031	714,538	410,853	457,413	340,959	.4	.2
Petroleum.....	46,173	99,822	125,628	171,949	127,669	141,281	158,252	.1	.1
Natural Gas.....	600,599	852,916	1,348,539	1,328,019	4,661,745	6,174,039	8,340,232	.8	6.1
Other Gases.....	269,476	347,027	230,143	189,147	112,541	170,368	181,942	.3	.1
Other Renewables.....	2,147,350	3,805,932	4,076,165	4,196,702	3,750,350	3,698,401	3,768,839	2.7	2.7
Other.....	0	0	758	474	118,289	0	9,942	.0	*
Total Electric Industry	79,652,133	105,189,366	124,405,340	125,345,113	132,920,670	137,487,222	137,354,771	100.0	100.0
Coal.....	53,658,115	69,047,634	77,517,714	72,198,114	72,041,664	76,696,391	74,816,684	67.4	54.5
Petroleum.....	138,089	201,538	366,155	434,549	312,048	336,644	269,523	.2	.2
Natural Gas.....	1,020,714	1,533,384	5,028,211	9,612,682	15,904,065	12,243,598	16,045,832	1.3	11.7
Other Gases.....	269,476	347,027	230,143	189,147	112,541	170,368	181,942	.3	.1
Nuclear.....	12,051,882	20,752,341	31,368,563	30,357,063	31,856,926	31,676,953	31,635,789	15.1	23.0
Hydroelectric.....	10,366,507	9,501,510	5,817,631	8,356,382	8,824,787	12,664,867	10,626,221	13.0	7.7
Other Renewables.....	2,147,350	3,805,932	4,076,165	4,196,702	3,750,350	3,698,401	3,768,839	2.7	2.7
Other.....	0	0	758	474	118,289	0	9,942	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Alabama							
Coal (cents per million Btu).....	184.3	156.0	141.0	141.1	W	W	W
Average heat value (Btu per pound).....	12,094	11,861	10,951	10,991	11,245	10,977	10,878
Average sulfur Content (percent).....	1.5	1.2	.9	.9	.9	.9	.8
Petroleum (cents per million Btu).....	506.6	375.6	651.7	552.1	W	W	W
Average heat value (Btu per gallon).....	130,100	138,278	137,397	144,476	140,117	141,395	142,757
Average sulfur Content (percent).....	.9	.2	.1	.1	.1	.1	.1
Natural Gas (cents per million Btu).....	215.6	197.7	437.5	505.5	345.7	561.5	606.3
Average heat value (Btu per cubic foot).....	1,030	1,016	1,034	1,035	1,027	1,039	1,035

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Alabama							
Sulfur Dioxide							
Coal	485	458	485	443	421	425	385
Petroleum.....	1	1	2	3	1	1	1
Natural Gas	*	*	*	*	*	*	*
Other.....	19	25	23	23	25	26	23
Total.....	506	483	509	469	447	453	409
Nitrogen Oxide							
Coal	210	252	169	157	150	141	124
Petroleum.....	*	*	*	1	*	1	*
Gas.....	2	4	7	10	7	5	6
Other.....	6	9	8	8	8	6	5
Total.....	218	266	185	176	165	152	136
Carbon Dioxide							
Coal	50,665	64,957	75,139	70,707	71,169	73,413	71,096
Petroleum.....	228	389	475	619	417	493	1,193
Gas.....	1,106	2,313	4,692	6,484	8,375	6,359	7,837
Geothermal	0	0	0	0	0	0	0
Other.....	4	0	0	0	11	59	39
Total.....	52,004	67,658	80,306	77,810	79,972	80,325	80,165

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Alabama									
Retail Sales (thousand megawatthours)									
Residential.....	20,719	24,314	28,756	27,802	30,022	29,416	30,109	34.6	34.7
Commercial	10,979	12,284	19,057	18,868	19,666	20,411	21,166	18.3	24.4
Industrial.....	27,618	32,847	35,034	31,949	32,615	34,017	35,595	46.1	41.0
Other	610	561	677	739	764	NA	NA	1.0	NA
Total.....	59,926	70,007	83,524	79,358	83,067	83,844	86,871	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,366	1,631	2,028	1,950	2,138	2,175	2,295	40.9	43.5
Commercial	738	827	1,254	1,233	1,305	1,399	1,506	22.1	28.5
Industrial.....	1,199	1,332	1,357	1,212	1,244	1,355	1,477	35.9	28.0
Other	34	41	48	53	57	NA	NA	1.0	NA
Total.....	3,338	3,831	4,687	4,448	4,745	4,929	5,278	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.59	6.71	7.05	7.01	7.12	7.39	7.62	NA	NA
Commercial	6.72	6.73	6.58	6.53	6.63	6.85	7.12	NA	NA
Industrial.....	4.34	4.05	3.87	3.79	3.81	3.98	4.15	NA	NA
Other	5.61	7.35	7.13	7.11	7.46	NA	NA	NA	NA
Total.....	5.57	5.47	5.61	5.60	5.71	5.88	6.08	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Alabama								
Number of Entities.....	1	36	1	24	NA	NA	NA	62
Number of Retail Customers.....	1,379,154	481,484	22	506,635	NA	NA	NA	2,367,295
Retail Sales (thousand megawatthours)	54,244	15,896	6,158	10,572	NA	NA	NA	86,871
Percentage of Retail Sales	62.44	18.30	7.09	12.17	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	3,293	992	201	792	NA	NA	NA	5,278
Percentage of Revenue.....	62.38	18.80	3.82	15.00	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.07	6.24	3.27	7.49	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. 2004 Summary Statistics

Item	Value	U.S. Rank
Alaska		
NERC Region(s).....		--
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	1,851	48
Electric Utilities	1,722	40
Independent Power Producers & Combined Heat and Power	129	48
Net Generation (megawatthours).....	6,526,717	48
Electric Utilities	5,866,420	42
Independent Power Producers & Combined Heat and Power	660,297	46
Emissions (thousand metric tons)		
Sulfur Dioxide	5	48
Nitrogen Oxide.....	10	47
Carbon Dioxide.....	4,712	46
Sulfur Dioxide (lbs/MWh).....	1.5	43
Nitrogen Oxide (lbs/MWh).....	3.3	15
Carbon Dioxide (lbs/MWh).....	1,592	18
Total Retail Sales (megawatthours).....	5,788,484	50
Full Service Provider Sales (megawatthours).....	5,788,484	49
Direct Use (megawatthours).....	1,079,118	30
Average Retail Price (cents/kWh).....	10.99	6

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Alaska			
1. Beluga.....	Gas	Chugach Electric Assn Inc	344
2. George M Sullivan Generation Plant 2.....	Petroleum,Gas	Municipality of Anchorage	220
3. Bradley Lake	Hydroelectric	Homer Electric Assn Inc	126
4. North Pole	Petroleum	Golden Valley Elec Assn Inc	96
5. Snettisham	Hydroelectric	Alaska Electric Light&Power Co	78
6. Bernice Lake	Gas	Chugach Electric Assn Inc	62
7. Anchorage 1	Petroleum,Gas	Municipality of Anchorage	62
8. Eklutna Hydro Project.....	Hydroelectric	Municipality of Anchorage	44
9. International.....	Gas	Chugach Electric Assn Inc	42
10. Nikiski Co-Generation.....	Gas	Homer Electric Assn Inc	38

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Alaska						
1. Chugach Electric Assn Inc.....	Cooperative	1,225,049	571,320	615,973	37,756	0
2. Golden Valley Elec Assn Inc.....	Cooperative	1,146,138	316,259	142,209	687,670	0
3. Municipality of Anchorage	Public	955,267	150,534	804,733	0	0
4. Matanuska Electric Assn Inc.....	Cooperative	618,676	393,646	225,030	0	0
5. Homer Electric Assn Inc.....	Cooperative	495,003	168,678	171,334	154,991	0
Total Sales, Top Five Providers.....		4,440,133	1,600,437	1,959,279	880,417	0
Percent of Total State Sales		77	78	75	78	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Alaska									
Electric Utilities	1,542	1,732	1,794	1,770	1,740	1,753	1,722	84.4	93.0
Coal.....	56	54	25	25	25	25	25	3.1	1.4
Petroleum.....	456	534	572	527	522	529	517	25.0	27.9
Natural Gas.....	486	484	492	511	526	532	606	26.6	32.7
Dual Fired.....	308	308	308	308	270	270	179	16.9	9.7
Hydroelectric	236	353	396	399	396	396	395	12.9	21.3
Other Renewables.....	0	0	0	0	0	1	1	.0	.1
Independent Power Producers and Combined									
Heat and Power	284	277	314	305	266	143	129	15.6	7.0
Coal.....	61	57	83	61	61	60	61	3.3	3.3
Petroleum.....	85	47	57	56	55	50	48	4.7	2.6
Natural Gas.....	100	100	136	188	151	32	20	5.5	1.1
Dual Fired.....	37	37	38	1	0	0	0	2.0	.0
Other Renewables.....	2	37	0	0	0	0	0	.1	.0
Total Electric Industry									
Coal	1,826	2,009	2,108	2,075	2,006	1,895	1,851	100.0	100.0
Coal.....	117	110	108	85	85	85	85	6.4	4.6
Petroleum.....	541	581	630	583	577	579	565	29.6	30.5
Natural Gas.....	586	584	628	699	677	564	626	32.1	33.8
Dual Fired.....	345	345	346	309	271	271	179	18.9	9.7
Hydroelectric	236	353	396	399	396	396	395	12.9	21.3
Other Renewables.....	2	37	0	0	0	1	1	.1	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Alaska									
Electric Utilities	4,493,024	4,846,922	4,937,687	5,416,191	5,471,990	5,673,462	5,866,420	80.2	89.9
Coal.....	311,960	309,232	184,901	194,008	204,490	167,555	211,075	5.6	3.2
Petroleum.....	336,905	486,640	557,013	847,761	875,153	775,374	681,848	6.0	10.4
Natural Gas.....	2,869,638	2,678,935	3,193,954	3,027,807	2,952,996	3,147,997	3,475,477	51.2	53.3
Hydroelectric	974,521	1,372,115	1,001,819	1,345,665	1,439,351	1,582,536	1,498,020	17.4	23.0
Other Renewables	0	0	0	950	0	0	0	.0	.0
Independent Power Producers and Combined									
Heat and Power	1,106,482	1,179,194	1,218,838	1,327,575	1,295,335	665,271	660,297	19.8	10.1
Coal.....	198,613	219,698	353,772	370,585	370,798	382,109	437,352	3.5	6.7
Petroleum.....	160,211	133,924	83,188	89,228	87,216	70,900	65,775	2.9	1.0
Natural Gas.....	596,623	700,638	781,878	867,762	825,166	206,485	147,954	10.7	2.3
Other Renewables	151,035	124,934	0	0	12,155	5,777	9,215	2.7	.1
Total Electric Industry									
Coal	5,599,506	6,026,116	6,156,525	6,743,766	6,767,325	6,338,732	6,526,717	100.0	100.0
Coal.....	510,573	528,930	538,673	564,593	575,288	549,664	648,427	9.1	9.9
Petroleum.....	497,116	620,564	640,201	936,989	962,369	846,274	747,623	8.9	11.5
Natural Gas.....	3,466,261	3,379,573	3,975,832	3,895,569	3,778,162	3,354,482	3,623,431	61.9	55.5
Hydroelectric	974,521	1,372,115	1,001,819	1,345,665	1,439,351	1,582,536	1,498,020	17.4	23.0
Other Renewables	151,035	124,934	0	950	12,155	5,777	9,215	2.7	.1

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Alaska							
Natural Gas (cents per million Btu)	0.0	128.6	177.1	236.1	W	229.0	278.6
Average heat value (Btu per cubic foot)	0	1,002	1,000	1,016	1,018	1,000	1,000

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Alaska							
Sulfur Dioxide							
Coal	14	10	4	4	4	2	2
Petroleum.....	4	*	1	3	3	3	2
Natural Gas	*	*	*	*	*	*	*
Other.....	1	1	0	0	0	0	0
Total.....	19	11	5	7	7	5	5
Nitrogen Oxide							
Coal	6	6	6	5	4	4	5
Petroleum.....	1	1	1	1	1	1	1
Gas.....	6	5	6	6	6	3	4
Other.....	*	*	0	0	0	*	*
Total.....	13	12	13	12	10	8	10
Carbon Dioxide							
Coal	1,244	1,456	1,416	1,406	1,249	1,221	1,280
Petroleum.....	750	641	585	786	812	716	650
Gas.....	2,376	2,087	2,468	2,390	2,342	2,007	2,783
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	4,370	4,183	4,469	4,582	4,403	3,944	4,712

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Alaska									
Retail Sales (thousand megawatthours)									
Residential.....	1,661	1,713	1,855	1,891	1,932	1,987	2,062	39.0	35.6
Commercial.....	1,972	2,200	2,236	2,289	2,238	2,473	2,601	46.4	44.9
Industrial.....	459	546	1,037	1,079	1,088	1,104	1,126	10.8	19.5
Other.....	161	172	182	194	207	NA	NA	3.8	NA
Total.....	4,254	4,632	5,310	5,454	5,465	5,564	5,788	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	168	192	212	229	233	238	256	41.7	40.3
Commercial.....	178	210	219	235	227	259	286	44.2	45.0
Industrial.....	36	46	78	82	83	87	94	8.9	14.8
Other.....	21	23	26	28	29	NA	NA	5.2	NA
Total.....	403	471	535	575	572	584	636	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	10.11	11.24	11.45	12.12	12.05	11.98	12.44	NA	NA
Commercial.....	9.01	9.54	9.77	10.29	10.13	10.49	10.99	NA	NA
Industrial.....	7.90	8.38	7.56	7.61	7.65	7.86	8.33	NA	NA
Other.....	13.22	13.26	14.17	14.37	14.04	NA	NA	NA	NA
Total.....	9.48	10.17	10.08	10.54	10.46	10.50	10.99	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Alaska								
Number of Entities.....	21	34	NA	18	NA	NA	NA	73
Number of Retail Customers.....	26,875	56,800	NA	212,683	NA	NA	NA	296,358
Retail Sales (thousand megawatthours).....	452	1,454	NA	3,882	NA	NA	NA	5,788
Percentage of Retail Sales.....	7.81	25.13	NA	67.07	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	60	159	NA	417	NA	NA	NA	636
Percentage of Revenue.....	9.41	24.95	NA	65.64	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	13.25	10.91	NA	10.75	NA	NA	NA	10.99

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Arizona		
NERC Region(s).....		WECC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	24,303	15
Electric Utilities	16,141	15
Independent Power Producers & Combined Heat and Power	8,162	11
Net Generation (megawatthours).....	104,564,143	13
Electric Utilities	81,351,521	14
Independent Power Producers & Combined Heat and Power	23,212,622	13
Emissions (thousand metric tons)		
Sulfur Dioxide	55	32
Nitrogen Oxide.....	78	21
Carbon Dioxide.....	50,577	18
Sulfur Dioxide (lbs/MWh).....	1.2	45
Nitrogen Oxide (lbs/MWh).....	1.6	36
Carbon Dioxide (lbs/MWh).....	1,066	39
Total Retail Sales (megawatthours).....	66,933,251	22
Full Service Provider Sales (megawatthours).....	66,933,251	21
Direct Use (megawatthours).....	374,187	39
Average Retail Price (cents/kWh).....	7.45	18

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Arizona			
1. Palo Verde.....	Nuclear	Arizona Public Service Co	3,804
2. Navajo.....	Petroleum,Coal	Salt River Proj Ag I & P Dist	2,250
3. Gila River Power LP.....	Other,Gas	Panda Gila River LP	2,060
4. Glen Canyon Dam.....	Hydroelectric	U S Bureau of Reclamation	1,296
5. Mesquite Generating Station.....	Gas	Mesquite Power LLC	1,073
6. Harquahala Generating Project.....	Gas	New Harquahala Generating Co, LLC	1,042
7. Hoover Dam.....	Hydroelectric	U S Bureau of Reclamation	1,040
8. Red Hawk.....	Gas	Pinnacle West Energy	1,020
9. Cholla.....	Gas,Petroleum,Coal	Arizona Public Service Co	995
10. West Phoenix.....	Gas	Arizona Public Service Co	977

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Arizona						
1. Arizona Public Service Co.....	Investor-Owned	25,507,883	11,527,402	11,402,140	2,578,341	0
2. Salt River Proj Ag I & P Dist.....	Public	23,830,720	11,342,116	9,737,140	2,751,464	0
3. Tucson Electric Power Co.....	Investor-Owned	8,542,990	3,459,750	1,787,472	3,295,768	0
4. Morenci Water & Electric Co.....	Investor-Owned	1,654,444	10,079	13,811	1,630,554	0
5. UNS Electric Inc.....	Power Marketer	1,462,632	691,948	577,022	193,662	0
Total Sales, Top Five Providers.....		60,998,669	27,031,295	23,517,585	10,449,789	0
Percent of Total State Sales.....		91	93	90	88	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Arizona									
Electric Utilities	14,906	15,222	15,140	15,284	15,699	16,193	16,141	99.3	66.4
Coal.....	5,116	5,159	5,336	5,336	5,336	5,336	5,336	34.1	22.0
Petroleum.....	75	92	89	88	108	108	108	.5	.4
Natural Gas.....	303	166	10	105	539	1,003	1,431	2.0	5.9
Dual Fired.....	3,006	3,110	3,084	3,130	3,060	2,988	2,524	20.0	10.4
Nuclear.....	3,663	3,810	3,733	3,733	3,733	3,825	3,804	24.4	15.7
Hydroelectric	2,595	2,699	2,705	2,705	2,703	2,706	2,710	17.3	11.2
Other Renewables.....	0	0	1	5	5	11	12	.0	*
Pumped Storage.....	148	185	182	182	216	216	216	1.0	.9
Independent Power Producers and Combined									
Heat and Power	105	161	171	1,437	3,743	7,315	8,162	.7	33.6
Coal.....	51	51	65	68	68	68	68	.3	.3
Petroleum.....	8	5	2	4	4	4	4	.1	*
Natural Gas.....	4	19	61	1,327	3,659	7,232	8,077	*	33.2
Dual Fired.....	43	86	43	39	13	13	13	.3	.1
Total Electric Industry	15,011	15,382	15,311	16,721	19,442	23,510	24,303	100.0	100.0
Coal.....	5,167	5,210	5,401	5,404	5,404	5,404	5,404	34.4	22.2
Petroleum.....	83	97	91	92	112	112	112	.6	.5
Natural Gas.....	307	184	71	1,431	4,198	8,235	9,509	2.0	39.1
Dual Fired.....	3,049	3,196	3,127	3,169	3,073	3,001	2,537	20.3	10.4
Nuclear.....	3,663	3,810	3,733	3,733	3,733	3,825	3,804	24.4	15.7
Hydroelectric	2,595	2,699	2,705	2,705	2,703	2,706	2,710	17.3	11.2
Other Renewables.....	0	0	1	5	5	11	12	.0	*
Pumped Storage.....	148	185	182	182	216	216	216	1.0	.9

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Arizona									
Electric Utilities	62,288,980	68,966,538	88,149,792	85,807,868	81,710,063	80,348,246	81,351,521	99.2	77.8
Coal.....	31,636,037	31,710,476	40,662,627	39,731,623	37,957,468	37,739,559	39,419,177	50.4	37.7
Petroleum.....	116,407	63,610	189,396	311,787	51,061	46,706	39,414	.2	*
Natural Gas.....	2,271,504	1,729,497	8,274,026	9,106,433	5,238,416	6,580,927	6,812,355	3.6	6.5
Nuclear.....	20,597,689	26,984,507	30,380,571	28,724,076	30,861,911	28,581,053	28,112,609	32.8	26.9
Hydroelectric.....	7,417,576	8,288,419	8,354,216	7,623,565	7,427,180	7,074,984	6,973,147	11.8	6.7
Other Renewables.....	0	0	0	34,090	50,063	41,426	48,259	.0	*
Pumped Storage.....	249,767	190,029	288,956	276,294	123,964	283,590	-53,440	.4	-1
Independent Power Producers and Combined									
Heat and Power	485,317	814,401	796,785	4,103,404	12,421,603	14,047,972	23,212,622	.8	22.2
Coal.....	279,573	241,183	330,502	329,871	269,163	351,850	394,690	.4	.4
Petroleum.....	35,460	18,947	927	2,419	6,385	1,970	1,102	.1	*
Natural Gas.....	62,396	463,450	460,773	3,765,767	12,054,599	12,351,714	21,449,276	.1	20.5
Other Renewables.....	107,888	90,821	4,583	5,347	91,456	3,843	4	.2	.0
Other.....	0	0	0	0	0	1,338,595	1,367,550	.0	1.3
Total Electric Industry	62,774,297	69,780,939	88,946,577	89,911,272	94,131,666	94,396,218	104,564,143	100.0	100.0
Coal.....	31,915,610	31,951,659	40,993,129	40,061,494	38,226,631	38,091,409	39,813,867	50.8	38.1
Petroleum.....	151,867	82,557	190,323	314,206	57,446	48,676	40,516	.2	*
Natural Gas.....	2,333,900	2,192,947	8,734,799	12,872,200	17,293,015	18,932,641	28,261,631	3.7	27.0
Nuclear.....	20,597,689	26,984,507	30,380,571	28,724,076	30,861,911	28,581,053	28,112,609	32.8	26.9
Hydroelectric.....	7,417,576	8,288,419	8,354,216	7,623,565	7,427,180	7,074,984	6,973,147	11.8	6.7
Other Renewables.....	107,888	90,821	4,583	39,437	141,519	45,269	48,263	.2	*
Pumped Storage.....	249,767	190,029	288,956	276,294	123,964	283,590	-53,440	.4	-1
Other.....	0	0	0	0	0	1,338,595	1,367,550	.0	1.3

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Arizona							
Coal (cents per million Btu).....	143.0	139.4	123.8	125.0	W	W	W
Average heat value (Btu per pound).....	10,482	10,274	10,229	10,150	10,151	10,081	10,211
Average sulfur Content (percent).....	.5	.5	.6	.6	.6	.6	.6
Petroleum (cents per million Btu).....	446.0	510.2	859.9	706.3	W	W	W
Average heat value (Btu per gallon).....	142,833	139,934	138,608	143,429	138,007	139,550	133,595
Average sulfur Content (percent).....	.5	.3	.1	.8	.1	.2	.3
Natural Gas (cents per million Btu).....	236.9	172.9	477.9	460.4	320.1	506.1	572.1
Average heat value (Btu per cubic foot).....	1,034	1,022	1,016	1,023	1,018	1,021	1,021

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Arizona							
Sulfur Dioxide							
Coal	113	124	67	68	66	63	55
Petroleum.....	*	*	*	*	*	*	*
Natural Gas	*	*	*	*	*	*	*
Other.....	1	1	0	0	0	0	0
Total.....	115	125	67	69	66	63	55
Nitrogen Oxide							
Coal	145	141	80	77	75	74	75
Petroleum.....	*	*	*	*	*	*	*
Gas.....	3	3	13	11	6	6	3
Other.....	*	*	*	*	*	*	*
Total.....	149	144	93	88	80	80	78
Carbon Dioxide							
Coal	31,554	31,362	39,540	38,749	37,414	37,544	38,976
Petroleum.....	137	72	173	297	51	43	37
Gas.....	1,491	1,257	5,150	6,981	7,850	9,069	11,564
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	108	0	0
Total.....	33,183	32,691	44,863	46,027	45,424	46,655	50,577

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Arizona									
Retail Sales (thousand megawatthours)									
Residential.....	15,378	18,036	24,844	26,200	26,413	27,742	28,921	37.1	43.2
Commercial	13,731	16,290	21,411	22,045	22,371	25,425	26,106	33.1	39.0
Industrial.....	10,034	11,992	11,975	11,377	11,026	10,914	11,906	24.2	17.8
Other	2,327	2,272	2,900	2,652	2,791	NA	NA	5.6	NA
Total.....	41,470	48,589	61,130	62,274	62,601	64,080	66,933	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,390	1,640	2,096	2,174	2,185	2,316	2,447	43.2	49.1
Commercial	1,139	1,313	1,572	1,624	1,629	1,803	1,901	35.4	38.1
Industrial.....	560	631	631	597	573	587	637	17.4	12.8
Other.....	126	117	131	131	127	NA	NA	3.9	NA
Total.....	3,215	3,700	4,431	4,526	4,514	4,706	4,985	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.04	9.09	8.44	8.30	8.27	8.35	8.46	NA	NA
Commercial	8.29	8.06	7.34	7.37	7.28	7.09	7.28	NA	NA
Industrial.....	5.58	5.26	5.27	5.24	5.20	5.38	5.35	NA	NA
Other.....	5.41	5.15	4.52	4.93	4.56	NA	NA	NA	NA
Total.....	7.75	7.62	7.25	7.27	7.21	7.34	7.45	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Arizona								
Number of Entities.....	5	28	3	9	NA	NA	NA	45
Number of Retail Customers.....	1,421,900	924,346	20,455	155,573	NA	NA	NA	2,522,274
Retail Sales (thousand megawatthours)	37,181	26,180	1,179	2,393	NA	NA	NA	66,933
Percentage of Retail Sales	55.55	39.11	1.76	3.58	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	2,910	1,824	46	205	NA	NA	NA	4,985
Percentage of Revenue.....	58.38	36.59	.93	4.10	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.83	6.97	3.92	8.55	NA	NA	NA	7.45

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;

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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. 2004 Summary Statistics

Item	Value	U.S. Rank
Arkansas		
NERC Region(s).....		SPP/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	13,538	27
Electric Utilities	9,772	25
Independent Power Producers & Combined Heat and Power	3,767	23
Net Generation (megawatthours).....	51,927,632	27
Electric Utilities	45,055,455	23
Independent Power Producers & Combined Heat and Power	6,872,177	31
Emissions (thousand metric tons)		
Sulfur Dioxide	87	27
Nitrogen Oxide	42	34
Carbon Dioxide	27,061	32
Sulfur Dioxide (lbs/MWh).....	3.7	32
Nitrogen Oxide (lbs/MWh).....	1.8	35
Carbon Dioxide (lbs/MWh).....	1,149	37
Total Retail Sales (megawatthours).....	43,672,360	30
Full Service Provider Sales (megawatthours).....	43,672,360	29
Direct Use (megawatthours).....	2,395,564	20
Average Retail Price (cents/kWh).....	5.67	46

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Arkansas			
1. Union Power Partners LP	Gas	TPS-Arkansas Operations	2,020
2. Arkansas Nuclear One	Nuclear	Entergy Arkansas Inc	1,837
3. White Bluff.....	Petroleum,Coal	Entergy Arkansas Inc	1,635
4. Independence.....	Petroleum,Coal	Entergy Arkansas Inc	1,630
5. Robert E Ritchie.....	Gas,Petroleum	Entergy Arkansas Inc	883
6. Lake Catherine	Gas	Entergy Arkansas Inc	735
7. KGen Hot Spring Generating Facility.....	Gas	Cinergy Solutions O&M 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.....	Hydroelectric	USCE-Little Rock District	391

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Arkansas						
1. Entergy Arkansas Inc	Investor-Owned	19,734,289	7,027,875	5,702,166	7,004,248	0
2. Southwestern Electric Power Co.....	Investor-Owned	4,022,330	1,016,033	1,345,846	1,660,451	0
3. Mississippi County Electric Co	Cooperative	3,291,123	55,219	19,616	3,216,288	0
4. Oklahoma Gas & Electric Co	Investor-Owned	2,601,486	655,588	810,283	1,135,615	0
5. First Electric Coop Corp	Cooperative	1,491,026	966,256	153,970	370,800	0
Total Sales, Top Five Providers.....		31,140,254	9,720,971	8,031,881	13,387,402	0
Percent of Total State Sales		71	62	75	77	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Arkansas									
Electric Utilities	9,641	9,639	9,330	9,615	9,550	9,776	9,772	96.7	72.2
Coal.....	3,817	3,817	3,680	3,741	3,757	3,745	3,745	38.3	27.7
Petroleum.....	202	206	18	18	18	18	18	2.0	.1
Natural Gas.....	67	32	32	199	199	199	2,089	.7	15.4
Dual Fired.....	2,571	2,564	2,483	2,457	2,386	2,560	668	25.8	4.9
Nuclear.....	1,694	1,694	1,694	1,782	1,776	1,840	1,837	17.0	13.6
Hydroelectric	1,262	1,298	1,394	1,391	1,387	1,387	1,387	12.7	10.2
Pumped Storage.....	28	28	28	28	28	28	28	.3	.2
Independent Power Producers and Combined									
Heat and Power	326	432	392	505	1,750	3,773	3,767	3.3	27.8
Petroleum.....	1	4	0	0	0	0	0	*	.0
Natural Gas.....	49	57	8	234	1,292	3,312	3,312	.5	24.5
Dual Fired.....	40	35	35	0	156	156	156	.4	1.2
Hydroelectric	0	1	1	1	1	1	1	.0	*
Other Renewables.....	236	336	348	271	301	304	298	2.4	2.2
Total Electric Industry	9,967	10,071	9,722	10,120	11,300	13,549	13,538	100.0	100.0
Coal.....	3,817	3,817	3,680	3,741	3,757	3,745	3,745	38.3	27.7
Petroleum.....	204	210	18	18	18	18	18	2.0	.1
Natural Gas.....	115	88	40	432	1,490	3,510	5,400	1.2	39.9
Dual Fired.....	2,611	2,599	2,518	2,457	2,542	2,716	824	26.2	6.1
Nuclear.....	1,694	1,694	1,694	1,782	1,776	1,840	1,837	17.0	13.6
Hydroelectric	1,262	1,299	1,395	1,392	1,388	1,388	1,388	12.7	10.3
Other Renewables.....	236	335	348	270	301	303	297	2.4	2.2
Pumped Storage.....	28	28	28	28	28	28	28	.3	.2

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Arkansas									
Electric Utilities	37,053,436	39,526,825	41,486,451	44,728,133	42,873,364	41,636,514	45,055,455	94.8	86.8
Coal.....	19,160,989	21,506,397	24,073,573	24,678,344	22,986,650	23,422,401	25,248,810	49.0	48.6
Petroleum.....	73,856	53,208	206,991	846,105	136,134	263,982	476,133	.2	.9
Natural Gas.....	2,838,913	3,091,957	3,183,788	1,874,675	1,755,867	597,283	208,148	7.3	.4
Nuclear.....	11,282,053	11,657,549	11,651,772	14,780,789	14,558,884	14,689,416	15,449,851	28.9	29.8
Hydroelectric.....	3,654,653	3,217,714	2,370,327	2,548,220	3,435,829	2,653,347	3,647,768	9.3	7.0
Pumped Storage.....	42,972	0	0	0	0	10,085	24,745	.1	*
Independent Power Producers and Combined									
Heat and Power	2,046,162	2,445,263	2,389,315	2,463,902	4,738,281	8,764,588	6,872,178	5.2	13.2
Coal.....	46,946	49,039	94,126	86,127	111,720	81,765	106,722	.1	.2
Petroleum.....	6,123	14,446	14,737	33,288	23,572	24,924	53,683	*	.1
Natural Gas.....	739,660	817,393	678,721	832,225	2,847,091	6,703,577	4,844,084	1.9	9.3
Hydroelectric.....	0	0	156	30	0	1,271	-4,329	.0	*
Other Renewables.....	1,253,433	1,560,734	1,594,036	1,512,071	1,585,266	1,843,889	1,759,367	3.2	3.4
Other.....	0	3,651	7,539	161	170,631	109,161	112,649	.0	.2
Total Electric Industry	39,099,598	41,972,088	43,875,766	47,192,035	47,611,645	50,401,101	51,927,632	100.0	100.0
Coal.....	19,207,935	21,555,436	24,167,699	24,764,471	23,098,370	23,504,166	25,355,532	49.1	48.8
Petroleum.....	79,979	67,654	221,728	879,393	159,706	288,906	529,816	.2	1.0
Natural Gas.....	3,578,573	3,909,350	3,862,509	2,706,900	4,602,958	7,300,860	5,052,232	9.2	9.7
Nuclear.....	11,282,053	11,657,549	11,651,772	14,780,789	14,558,884	14,689,416	15,449,851	28.9	29.8
Hydroelectric.....	3,654,653	3,217,714	2,370,483	2,548,250	3,435,829	2,654,618	3,643,439	9.3	7.0
Other Renewables.....	1,253,433	1,560,734	1,594,036	1,512,071	1,585,266	1,843,889	1,759,367	3.2	3.4
Pumped Storage.....	42,972	0	0	0	0	10,085	24,745	.1	*
Other.....	0	3,651	7,539	161	170,631	109,161	112,649	.0	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Arkansas							
Coal (cents per million Btu).....	161.1	161.1	142.1	87.5	83.6	119.5	122.6
Average heat value (Btu per pound).....	8,740	8,687	8,681	8,720	8,694	8,758	8,761
Average sulfur Content (percent).....	.3	.3	.3	.3	.3	.3	.3
Petroleum (cents per million Btu).....	470.4	417.5	465.7	626.4	550.0	645.5	726.0
Average heat value (Btu per gallon).....	138,866	137,716	140,490	151,143	138,705	140,479	140,321
Average sulfur Content (percent).....	.3	.2	.5	.4	.4	.4	.5
Natural Gas (cents per million Btu).....	154.0	169.7	437.5	429.0	351.4	423.4	602.0
Average heat value (Btu per cubic foot).....	1,018	1,023	1,020	1,036	1,019	1,033	1,029

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Arkansas							
Sulfur Dioxide							
Coal	67	70	69	70	67	65	71
Petroleum.....	*	*	2	4	1	2	3
Natural Gas	*	*	*	*	*	*	*
Other.....	11	12	13	9	12	12	13
Total.....	77	82	84	83	80	79	87
Nitrogen Oxide							
Coal	99	100	41	41	37	37	37
Petroleum.....	*	*	*	1	*	*	1
Gas.....	7	8	10	3	4	4	1
Other.....	3	4	3	2	3	4	4
Total.....	109	111	54	47	44	46	42
Carbon Dioxide							
Coal	19,640	22,275	25,151	25,621	23,880	23,551	24,877
Petroleum.....	84	50	182	724	187	256	548
Gas.....	3,227	3,366	3,403	1,852	2,841	3,412	1,635
Geothermal	0	0	0	0	0	0	0
Other.....	4	*	0	0	0	0	2
Total.....	22,956	25,691	28,736	28,197	26,909	27,220	27,061

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Arkansas									
Retail Sales (thousand megawatthours)									
Residential.....	10,558	12,417	14,871	15,104	15,527	15,598	15,619	38.6	35.8
Commercial	6,075	7,147	8,746	9,153	9,304	10,568	10,731	22.2	24.6
Industrial.....	10,126	14,483	17,268	16,734	16,887	16,942	17,322	37.0	39.7
Other	606	625	726	741	731	NA	NA	2.2	NA
Total.....	27,365	34,671	41,611	41,732	42,450	43,108	43,672	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	852	991	1,109	1,165	1,126	1,130	1,150	46.5	46.5
Commercial	422	488	519	567	528	585	605	23.0	24.4
Industrial.....	516	653	726	741	678	685	720	28.2	29.1
Other	43	42	46	51	48	NA	NA	2.3	NA
Total.....	1,833	2,174	2,399	2,524	2,380	2,399	2,475	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	8.07	7.98	7.45	7.72	7.25	7.24	7.36	NA	NA
Commercial	6.95	6.83	5.93	6.19	5.68	5.54	5.64	NA	NA
Industrial.....	5.10	4.51	4.20	4.43	4.01	4.04	4.16	NA	NA
Other	7.08	6.65	6.39	6.91	6.52	NA	NA	NA	NA
Total.....	6.70	6.27	5.77	6.05	5.61	5.57	5.67	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Arkansas								
Number of Entities.....	4	15	NA	17	2	NA	NA	38
Number of Retail Customers.....	840,835	166,745	NA	431,336	2	NA	NA	1,438,918
Retail Sales (thousand megawatthours).....	26,497	5,608	NA	11,311	256	NA	NA	43,672
Percentage of Retail Sales.....	60.67	12.84	NA	25.90	.59	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,518	303	NA	639	15	NA	NA	2,475
Percentage of Revenue.....	61.32	12.25	NA	25.82	.61	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.73	5.41	NA	5.65	5.90	NA	NA	5.67

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. 2004 Summary Statistics

Item	Value	U.S. Rank
California		
NERC Region(s).....		WECC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	58,306	2
Electric Utilities	23,867	5
Independent Power Producers & Combined Heat and Power	34,440	4
Net Generation (megawatthours).....	194,780,355	4
Electric Utilities	75,177,122	15
Independent Power Producers & Combined Heat and Power	119,603,233	4
Emissions (thousand metric tons)		
Sulfur Dioxide	22	41
Nitrogen Oxide.....	54	31
Carbon Dioxide.....	60,664	14
Sulfur Dioxide (lbs/MWh).....	.2	50
Nitrogen Oxide (lbs/MWh).....	.6	47
Carbon Dioxide (lbs/MWh).....	687	47
Total Retail Sales (megawatthours).....	252,764,015	2
Full Service Provider Sales (megawatthours).....	176,854,463	3
Deregulated Sales (megawatthours).....	75,909,552	1
Direct Use (megawatthours).....	15,199,327	3
Average Retail Price (cents/kWh).....	11.45	3

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
California			
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	1,997
5. Ormond Beach.....	Gas	Reliant Energy Ormond Bch LLC	1,516
6. Castaic	Hydroelectric	Los Angeles City of	1,495
7. Pittsburg Power	Gas	Mirant Delta LLC	1,311
8. AES Redondo Beach LLC.....	Gas	AES Redondo Beach LLC	1,310
9. Helms Pumped Storage.....	Pumped Storage	Pacific Gas & Electric Co	1,212
10. Haynes	Gas	Los Angeles City of	1,126

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
California						
1. Pacific Gas & Electric Co.....	Investor-Owned	53,897,438	21,389,201	25,793,361	6,712,723	2,153
2. Electric Fund (CDWR).....	Power Marketer	51,361,387	20,605,766	24,811,029	5,924,088	20,504
3. Southern California Edison Co.....	Investor-Owned	49,122,593	18,505,296	24,503,514	6,072,819	40,964
4. Los Angeles City of.....	Public	23,482,342	7,924,805	12,976,003	2,449,396	132,138
5. Sacramento Municipal Util Dist.....	Public	10,234,662	4,450,692	721,164	5,030,405	32,401
Total Sales, Top Five Providers.....		188,098,422	72,875,760	88,805,071	26,189,431	228,160
Percent of Total State Sales.....		74	86	76	53	31

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
California									
Electric Utilities	43,681	43,302	24,319	24,405	24,609	23,223	23,867	82.1	40.9
Petroleum.....	548	560	184	184	184	185	185	1.0	.3
Natural Gas.....	16,847	17,153	1,600	1,637	1,572	1,654	2,022	31.7	3.5
Dual Fired.....	7,221	6,019	4,413	4,436	4,494	3,500	3,657	13.6	6.3
Nuclear.....	4,746	4,310	4,310	4,324	4,324	4,324	4,324	8.9	7.4
Hydroelectric.....	9,199	9,807	9,835	9,848	10,040	9,716	9,840	17.3	16.9
Other Renewables.....	1,595	1,723	248	247	265	156	150	3.0	.3
Pumped Storage.....	3,526	3,730	3,730	3,730	3,730	3,688	3,688	6.6	6.3
Independent Power Producers and Combined									
Heat and Power	9,533	10,187	27,989	30,077	32,054	34,629	34,440	17.9	59.1
Coal.....	431	420	407	362	351	357	389	.8	.7
Petroleum.....	72	46	295	538	521	507	521	.1	.9
Natural Gas.....	2,437	3,910	18,617	21,351	23,744	26,084	25,651	4.6	44.0
Other Gases.....	107	176	395	281	226	225	235	.2	.4
Dual Fired.....	1,919	963	2,563	2,381	2,034	2,184	2,240	3.6	3.8
Hydroelectric.....	569	639	476	484	324	232	238	1.1	.4
Other Renewables.....	3,998	4,024	5,232	4,682	4,838	5,021	5,157	7.5	8.8
Other.....	0	9	4	0	17	17	8	.0	*
Total Electric Industry	53,215	53,489	52,308	54,482	56,663	57,850	58,306	100.0	100.0
Coal.....	432	420	407	363	352	358	389	.8	.7
Petroleum.....	621	606	479	722	705	692	706	1.2	1.2
Natural Gas.....	19,283	21,063	20,216	22,988	25,317	27,738	27,673	36.2	47.5
Other Gases.....	107	176	395	281	226	225	235	.2	.4
Dual Fired.....	9,140	6,983	6,976	6,816	6,527	5,684	5,897	17.2	10.1
Nuclear.....	4,746	4,310	4,310	4,324	4,324	4,324	4,324	8.9	7.4
Hydroelectric.....	9,767	10,446	10,311	10,331	10,364	9,947	10,078	18.4	17.3
Other Renewables.....	5,594	5,746	5,480	4,928	5,102	5,177	5,308	10.5	9.1
Pumped Storage.....	3,526	3,730	3,730	3,730	3,730	3,688	3,688	6.6	6.3
Other.....	0	9	4	0	17	17	8	.0	*

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
California									
Electric Utilities	114,528,000	121,881,402	85,856,285	70,132,656	74,588,271	81,728,209	75,177,122	69.1	38.6
Petroleum.....	4,385,235	488,530	144,590	316,691	43,933	50,996	51,482	2.6	*
Natural Gas.....	45,221,848	39,089,723	12,411,961	11,918,703	8,808,012	9,873,371	10,759,580	27.3	5.5
Nuclear.....	32,692,807	30,245,936	35,175,505	33,219,520	34,352,340	35,593,789	30,267,887	19.7	15.5
Hydroelectric.....	22,808,272	44,928,985	37,041,641	24,817,842	30,236,644	35,782,738	33,608,686	13.8	17.3
Other Renewables.....	8,433,586	4,621,563	144,648	209,589	1,388,339	1,339,627	1,306,318	5.1	.7
Pumped Storage.....	986,252	2,506,665	937,940	-349,689	-240,997	-912,313	-816,831	.6	-4
Independent Power Producers and Combined									
Heat and Power	51,256,909	59,581,939	122,226,198	128,463,419	109,621,761	111,060,334	119,603,232	30.9	61.4
Coal.....	2,637,677	2,786,844	2,363,607	2,232,851	2,327,809	2,326,305	2,244,355	1.6	1.2
Petroleum.....	1,088,617	1,802,598	2,695,204	2,738,202	1,917,132	2,341,252	2,214,436	.7	1.1
Natural Gas.....	28,946,460	33,489,170	90,807,012	100,013,568	80,816,032	81,558,810	89,695,842	17.5	46.0
Other Gases.....	2,146,742	2,594,985	2,687,177	1,130,499	1,240,053	1,759,015	1,862,250	1.3	1.0
Hydroelectric.....	984,295	3,104,145	1,292,145	723,934	903,984	587,965	532,243	.6	.3
Other Renewables.....	15,453,118	15,788,401	22,359,013	21,607,632	22,292,229	22,442,789	22,868,127	9.3	11.7
Other.....	0	15,796	22,040	16,733	124,520	44,198	185,980	.0	.1
Total Electric Industry	165,784,909	181,463,341	208,082,483	198,596,075	184,210,031	192,788,542	194,780,355	100.0	100.0
Coal.....	2,637,677	2,786,844	2,363,607	2,232,851	2,327,809	2,326,305	2,244,355	1.6	1.2
Petroleum.....	5,473,852	2,291,128	2,839,794	3,054,893	1,961,065	2,392,248	2,265,918	3.3	1.2
Natural Gas.....	74,168,308	72,578,893	103,218,973	111,932,271	89,624,044	91,432,181	100,455,422	44.7	51.6
Other Gases.....	2,146,742	2,594,985	2,687,177	1,130,499	1,240,053	1,759,015	1,862,250	1.3	1.0
Nuclear.....	32,692,807	30,245,936	35,175,505	33,219,520	34,352,340	35,593,789	30,267,887	19.7	15.5
Hydroelectric.....	23,792,567	48,033,130	38,333,786	25,541,776	31,140,628	36,370,703	34,140,929	14.4	17.5
Other Renewables.....	23,886,704	20,409,964	22,503,661	21,817,221	23,680,568	23,782,416	24,174,445	14.4	12.4
Pumped Storage.....	986,252	2,506,665	937,940	-349,689	-240,997	-912,313	-816,831	.6	-4
Other.....	0	15,796	22,040	16,733	124,520	44,198	185,980	.0	.1

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
California							
Coal (cents per million Btu).....	0.0	0.0	0.0	0.0	180.2	172.7	188.1
Average heat value (Btu per pound).....	0	0	0	0	11,868	11,943	12,205
Average sulfur Content (percent).....	.0	.0	.0	.0	.5	.7	.8
Petroleum (cents per million Btu).....	435.8	.0	619.4	600.8	114.4	266.5	297.5
Average heat value (Btu per gallon).....	146,026	0	140,000	131,762	96,990	124,229	134,633
Average sulfur Content (percent).....	.3	.0	.0	.9	1.9	.9	1.2
Natural Gas (cents per million Btu).....	303.1	222.3	581.1	928.6	372.1	536.7	589.4
Average heat value (Btu per cubic foot).....	1,033	1,027	1,012	1,023	1,019	1,026	1,027

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
California							
Sulfur Dioxide							
Coal	32	28	15	14	16	3	2
Petroleum.....	46	42	26	24	45	13	18
Natural Gas	*	*	*	*	*	*	*
Other.....	3	2	2	1	1	1	2
Total.....	82	72	43	40	62	17	22
Nitrogen Oxide							
Coal	16	16	14	13	13	5	5
Petroleum.....	9	7	6	6	8	7	7
Gas.....	91	71	60	63	57	43	37
Other.....	12	10	11	10	10	5	5
Total.....	128	103	91	92	88	60	54
Carbon Dioxide							
Coal	4,203	4,335	3,858	3,791	3,991	3,851	3,910
Petroleum.....	5,079	2,983	3,338	3,750	3,018	2,988	2,997
Gas.....	43,405	42,333	59,193	62,874	50,973	48,319	53,076
Geothermal.....	373	294	316	313	333	330	333
Other.....	103	94	92	94	1,311	366	348
Total.....	53,163	50,039	66,798	70,820	59,625	55,855	60,664

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
California									
Retail Sales (thousand megawatthours)									
Residential.....	66,575	68,783	79,241	76,209	77,425	80,699	84,966	31.5	33.6
Commercial	79,691	80,874	92,697	101,378	102,838	108,049	117,573	37.8	46.5
Industrial.....	55,892	57,367	64,311	50,943	48,349	49,153	49,484	26.5	19.6
Other	8,935	5,580	7,808	6,862	7,215	NA	NA	4.2	NA
Transportation.....	NA	NA	NA	NA	NA	809	741	NA	.3
Total.....	211,093	212,605	244,057	235,392	235,827	238,710	252,764	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	6,646	7,983	8,629	9,776	10,031	9,686	10,628	35.6	36.7
Commercial	7,541	8,485	9,502	12,511	13,888	13,167	13,554	40.4	46.8
Industrial.....	4,071	4,226	4,594	4,585	5,059	4,840	4,710	21.8	16.3
Other	404	376	380	897	480	NA	NA	2.2	NA
Transportation.....	NA	NA	NA	NA	NA	48	43	NA	.1
Total.....	18,664	21,070	23,105	27,768	29,458	27,741	28,935	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.98	11.61	10.89	12.83	12.96	12.00	12.51	NA	NA
Commercial	9.46	10.49	10.25	12.34	13.50	12.19	11.53	NA	NA
Industrial.....	7.28	7.37	7.14	9.00	10.46	9.85	9.52	NA	NA
Other	4.53	6.73	4.87	13.07	6.65	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	5.88	5.77	NA	NA
Total.....	8.84	9.91	9.47	11.80	12.49	11.62	11.45	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
California								
Number of Entities.....	6	35	1	4	10	13	4	73
Number of Retail Customers.....	10,976,172	2,997,471	81	15,174	10	62,276	NA	14,051,184
Retail Sales (thousand megawatthours)	112,760	58,925	3,383	282	1,505	75,910	NA	252,764
Percentage of Retail Sales	44.61	23.31	1.34	.11	.60	30.03	NA	100.00
Revenue from Retail Sales (million dollars)	14,009	5,604	59	25	109	6,390	2,740	28,935
Percentage of Revenue.....	48.41	19.37	.20	.09	.38	22.08	9.47	100.00
Average Retail Price (cents/kWh).....	12.42	9.51	1.75	8.80	7.23	8.42	3.61	11.45

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Colorado		
NERC Region(s).....		WECC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	11,085	31
Electric Utilities	7,954	28
Independent Power Producers & Combined Heat and Power	3,132	30
Net Generation (megawatthours).....	47,869,492	29
Electric Utilities	40,436,218	27
Independent Power Producers & Combined Heat and Power	7,433,274	30
Emissions (thousand metric tons)		
Sulfur Dioxide	59	31
Nitrogen Oxide	66	28
Carbon Dioxide	39,630	24
Sulfur Dioxide (lbs/MWh).....	2.7	37
Nitrogen Oxide (lbs/MWh).....	3.1	18
Carbon Dioxide (lbs/MWh).....	1,825	13
Total Retail Sales (megawatthours).....	46,723,841	27
Full Service Provider Sales (megawatthours).....	46,723,841	26
Direct Use (megawatthours).....	495,780	35
Average Retail Price (cents/kWh).....	6.95	24

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Colorado			
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. Rocky Mountain Energy Center.....	Gas	Rocky Mountain Energy Ctr LLC	608
6. Rawhide	Petroleum,Gas,Coal	Platte River Power Authority	534
7. Pawnee	Gas,Coal	Public Service Co of Colorado	505
8. Front Range Power Project.....	Gas	Colorado Springs City of	462
9. Hayden.....	Petroleum,Gas,Coal	Public Service Co of Colorado	446
10. Cabin Creek	Pumped Storage	Public Service Co of Colorado	324

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Colorado						
1. Public Service Co of Colorado	Investor-Owned	25,748,164	7,954,565	12,669,218	5,105,803	18,578
2. Colorado Springs City of	Public	4,311,782	1,299,046	1,888,631	1,124,105	0
3. Intermountain Rural Elec Assn.....	Cooperative	1,783,746	1,150,561	524,809	108,376	0
4. Aquila Inc	Investor-Owned	1,735,161	535,180	687,411	512,570	0
5. Fort Collins City of	Public	1,349,613	428,919	463,676	457,018	0
Total Sales, Top Five Providers.....		34,928,466	11,368,271	16,233,745	7,307,872	18,578
Percent of Total State Sales		75	73	83	63	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Colorado									
Electric Utilities	6,633	6,647	7,269	7,479	7,603	7,883	7,954	95.9	71.8
Coal.....	4,944	4,954	4,980	4,981	4,891	4,891	4,891	71.5	44.1
Petroleum.....	141	141	148	146	162	162	166	2.0	1.5
Natural Gas.....	48	15	525	751	944	944	1,074	.7	9.7
Dual Fired.....	424	423	423	423	420	699	630	6.1	5.7
Hydroelectric	542	582	614	600	600	601	601	7.8	5.4
Other Renewables.....	0	0	15	16	24	24	30	.0	.3
Pumped Storage.....	532	532	562	563	563	563	563	7.7	5.1
Independent Power Producers and Combined									
Heat and Power.....	281	633	1,124	1,431	1,832	2,486	3,132	4.1	28.3
Coal.....	33	33	33	40	40	40	40	.5	.4
Petroleum.....	3	3	3	2	2	2	2	*	*
Natural Gas.....	211	534	1,019	1,270	1,426	1,915	2,534	3.1	22.9
Dual Fired.....	0	28	28	30	298	306	306	.0	2.8
Hydroelectric	29	30	30	43	43	38	42	.4	.4
Other Renewables.....	5	5	11	46	23	185	207	.1	1.9
Total Electric Industry	6,914	7,280	8,393	8,910	9,435	10,370	11,085	100.0	100.0
Coal.....	4,977	4,986	5,014	5,021	4,931	4,931	4,931	72.0	44.5
Petroleum.....	144	144	152	149	164	164	168	2.1	1.5
Natural Gas.....	260	550	1,545	2,021	2,370	2,859	3,608	3.8	32.5
Dual Fired.....	424	451	451	453	718	1,005	936	6.1	8.4
Hydroelectric	571	612	644	642	643	639	643	8.3	5.8
Other Renewables.....	5	5	26	62	47	209	237	.1	2.1
Pumped Storage.....	532	532	562	563	563	563	563	7.7	5.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Colorado									
Electric Utilities	31,312,872	32,673,972	40,108,260	41,957,723	41,509,933	41,226,252	40,436,218	96.2	84.5
Coal.....	29,602,738	30,276,010	35,101,982	35,654,162	35,135,198	35,807,527	35,570,358	91.0	74.3
Petroleum.....	25,129	10,136	91,320	158,742	22,519	33,927	11,797	.1	*
Natural Gas.....	409,078	286,971	3,539,837	4,884,010	5,321,770	4,369,743	3,899,293	1.3	8.1
Other Gases.....	0	0	0	0	2,884	4,001	1,753	.0	*
Hydroelectric.....	1,308,961	2,008,902	1,329,946	1,472,627	1,187,839	1,156,217	1,076,897	4.0	2.3
Other Renewables.....	164	0	0	38,764	59,987	58,477	67,921	*	.1
Pumped Storage.....	-33,198	91,953	45,175	-250,582	-220,264	-203,640	-191,801	-1	-4
Independent Power Producers and Combined									
Heat and Power	1,235,255	2,943,262	4,057,286	4,918,279	4,090,455	5,390,534	7,433,275	3.8	15.5
Coal.....	212,245	216,672	279,237	296,866	253,053	308,096	278,103	.7	.6
Petroleum.....	2,261	1,576	18,065	17,487	661	67	1,911	*	*
Natural Gas.....	881,014	2,569,817	3,617,601	4,507,777	3,706,720	4,856,290	6,848,293	2.7	14.3
Hydroelectric.....	110,909	122,287	124,469	22,070	21,168	105,980	117,768	.3	.2
Other Renewables.....	28,826	32,910	17,914	74,079	108,853	120,102	187,200	.1	.4
Total Electric Industry	32,548,127	35,617,234	44,165,546	46,876,002	45,600,388	46,616,787	47,869,492	100.0	100.0
Coal.....	29,814,983	30,492,682	35,381,219	35,951,028	35,388,251	36,115,623	35,848,461	91.6	74.9
Petroleum.....	27,390	11,712	109,385	176,229	23,180	33,994	13,708	.1	*
Natural Gas.....	1,290,092	2,856,788	7,157,438	9,391,787	9,028,490	9,226,033	10,747,586	4.0	22.5
Other Gases.....	0	0	0	0	2,884	4,001	1,753	.0	*
Hydroelectric.....	1,419,870	2,131,189	1,454,415	1,494,697	1,209,007	1,262,197	1,194,665	4.4	2.5
Other Renewables.....	28,990	32,910	17,914	112,843	168,840	178,579	255,121	.1	.5
Pumped Storage.....	-33,198	91,953	45,175	-250,582	-220,264	-203,640	-191,801	-1	-4

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Colorado							
Coal (cents per million Btu).....	106.1	104.8	92.6	92.2	95.1	96.6	97.2
Average heat value (Btu per pound).....	9,808	9,895	9,797	9,783	9,787	9,793	9,824
Average sulfur Content (percent).....	.4	.4	.4	.4	.4	.4	.4
Petroleum (cents per million Btu).....	534.5	477.2	693.7	721.4	704.6	W	1,129.3
Average heat value (Btu per gallon).....	137,006	137,958	135,946	138,952	137,395	123,940	126,438
Average sulfur Content (percent).....	.3	*	.2	.2	*	*	.1
Natural Gas (cents per million Btu).....	217.3	173.0	403.1	375.4	246.3	429.9	553.7
Average heat value (Btu per cubic foot).....	988	1,008	1,021	1,045	1,019	1,027	1,021

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Colorado							
Sulfur Dioxide							
Coal	93	99	83	85	83	70	59
Petroleum.....	*	*	*	*	*	*	*
Natural Gas	0	*	*	*	*	*	*
Other.....	*	*	0	0	0	0	0
Total.....	93	99	83	86	83	70	59
Nitrogen Oxide							
Coal	144	132	66	68	68	67	64
Petroleum.....	*	*	*	*	0	*	*
Gas.....	2	3	4	6	6	4	3
Other.....	*	*	*	*	*	*	*
Total.....	146	136	71	75	73	71	66
Carbon Dioxide							
Coal	30,004	30,918	35,622	36,544	36,277	35,999	34,602
Petroleum.....	26	16	157	214	25	32	15
Gas.....	859	1,605	3,866	5,110	4,661	4,569	5,012
Geothermal.....	0	0	0	0	0	0	0
Other.....	*	0	0	0	0	0	0
Total.....	30,889	32,539	39,645	41,868	40,964	40,599	39,630

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Colorado									
Retail Sales (thousand megawatthours)									
Residential.....	9,787	11,307	14,029	14,470	15,425	15,725	15,532	31.8	33.2
Commercial	13,553	13,420	17,989	17,890	18,438	19,657	19,498	44.0	41.7
Industrial.....	6,587	9,706	9,955	10,918	10,672	11,076	11,675	21.4	25.0
Other	867	884	1,047	958	1,401	NA	NA	2.8	NA
Transportation.....	NA	NA	NA	NA	NA	37	19	NA	.0
Total.....	30,795	35,317	43,020	44,236	45,937	46,495	46,724	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	687	839	1,025	1,080	1,137	1,280	1,307	37.9	40.3
Commercial	768	815	998	1,014	1,045	1,298	1,343	42.3	41.4
Industrial.....	296	438	423	489	483	565	596	16.3	18.4
Other	63	70	81	80	93	NA	NA	3.5	NA
Transportation.....	NA	NA	NA	NA	NA	3	1	NA	.0
Total.....	1,814	2,162	2,528	2,662	2,758	3,146	3,247	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.02	7.42	7.30	7.46	7.37	8.14	8.41	NA	NA
Commercial	5.67	6.07	5.55	5.67	5.67	6.60	6.89	NA	NA
Industrial.....	4.49	4.51	4.25	4.47	4.52	5.10	5.10	NA	NA
Other	7.28	7.87	7.77	8.36	6.64	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.32	5.81	NA	NA
Total.....	5.89	6.12	5.88	6.02	6.00	6.77	6.95	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Colorado								
Number of Entities.....	2	29	1	28	2	NA	NA	62
Number of Retail Customers.....	1,386,770	397,403	14	537,712	2	NA	NA	2,321,901
Retail Sales (thousand megawatthours).....	27,483	8,233	88	10,593	327	NA	NA	46,724
Percentage of Retail Sales.....	58.82	17.62	.19	22.67	.70	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,918	519	2	798	10	NA	NA	3,247
Percentage of Revenue.....	59.06	15.99	.05	24.58	.31	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.98	6.31	1.94	7.54	3.07	NA	NA	6.95

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Connecticut		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	7,929	35
Electric Utilities	174	46
Independent Power Producers & Combined Heat and Power	7,756	14
Net Generation (megawatthours)	32,633,408	38
Electric Utilities	45,095	46
Independent Power Producers & Combined Heat and Power	32,588,313	10
Emissions (thousand metric tons)		
Sulfur Dioxide	7	47
Nitrogen Oxide.....	10	46
Carbon Dioxide	10,262	40
Sulfur Dioxide (lbs/MWh).....	.4	47
Nitrogen Oxide (lbs/MWh).....	.7	45
Carbon Dioxide (lbs/MWh).....	693	46
Total Retail Sales (megawatthours)	32,214,610	33
Full Service Provider Sales (megawatthours).....	31,470,175	33
Deregulated Sales (megawatthours)	744,435	16
Direct Use (megawatthours).....	1,540,638	24
Average Retail Price (cents/kWh).....	10.26	10

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Connecticut			
1. Millstone.....	Nuclear	Dominion Nuclear Conn Inc	2,037
2. Middletown.....	Other,Gas,Petroleum	Middletown Power LLC	837
3. Lake Road Generating Plant.....	Gas	Lake Road Generating Co LP	729
4. Bridgeport Station	Other,Petroleum,Coal	PSEG Power Connecticut LLC	513
5. Montville Station.....	Gas,Petroleum	NRG Montville Operations Inc	496
6. Milford Power Project.....	Petroleum,Gas	Milford Power Co LLC	464
7. Bridgeport Energy Project	Gas	Bridgeport Energy LLC	454
8. New Haven Harbor	Petroleum	PSEG Power Connecticut LLC	448
9. Devon Station.....	Gas,Petroleum	NRG Devon Operations Inc	354
10. NRG Norwalk Harbor	Petroleum	NRG Norwalk Harbor Ops Inc	342

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Connecticut						
1. Connecticut Light & Power Co	Investor-Owned	23,404,183	10,039,484	9,707,644	3,466,987	190,068
2. United Illuminating Co.....	Investor-Owned	5,952,000	2,347,000	2,648,000	957,000	0
3. Wallingford Town of.....	Public	635,990	216,216	241,741	178,033	0
4. Groton Dept of Utilities	Public	600,165	113,987	132,161	354,017	0
5. Norwich City of.....	Public	347,626	125,508	164,487	57,631	0
Total Sales, Top Five Providers.....		30,939,964	12,842,195	12,894,033	5,013,668	190,068
Percent of Total State Sales		96	97	96	94	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Connecticut									
Electric Utilities	7,141	6,722	2,204	185	34	210	174	92.9	2.2
Coal.....	385	385	0	0	0	0	0	5.0	.0
Petroleum.....	2,807	2,200	176	176	25	178	165	36.5	2.1
Natural Gas.....	0	214	0	0	0	0	0	.0	.0
Dual Fired.....	528	528	0	0	0	23	0	6.9	.0
Nuclear.....	3,217	3,194	2,017	0	0	0	0	41.8	.0
Hydroelectric	108	131	10	9	9	9	9	1.4	.1
Other Renewables.....	64	64	0	0	0	0	0	.8	.0
Pumped Storage.....	32	6	0	0	0	0	0	.4	.0
Independent Power Producers and Combined									
Heat and Power.....	546	674	4,243	7,105	7,366	7,364	7,756	7.1	97.8
Coal.....	200	200	547	555	553	553	553	2.6	7.0
Petroleum.....	10	0	1,154	1,153	1,229	2,084	2,035	.1	25.7
Natural Gas.....	17	95	743	857	832	701	646	.2	8.1
Dual Fired.....	208	117	1,416	2,137	2,350	1,632	2,149	2.7	27.1
Nuclear.....	0	0	0	2,006	2,006	1,997	2,037	.0	25.7
Hydroelectric	21	21	132	129	137	137	137	.3	1.7
Other Renewables.....	89	241	244	260	254	254	192	1.2	2.4
Pumped Storage.....	0	0	7	7	4	4	4	.0	*
Other	0	0	0	0	1	1	1	.0	*
Total Electric Industry	7,687	7,397	6,447	7,289	7,400	7,573	7,929	100.0	100.0
Coal.....	585	585	548	555	553	553	553	7.6	7.0
Petroleum.....	2,817	2,200	1,330	1,328	1,254	2,263	2,200	36.6	27.7
Natural Gas.....	17	309	743	858	832	701	646	.2	8.1
Dual Fired.....	736	645	1,416	2,137	2,350	1,654	2,149	9.6	27.1
Nuclear.....	3,217	3,194	2,017	2,006	2,006	1,997	2,037	41.8	25.7
Hydroelectric	129	151	142	138	146	146	146	1.7	1.8
Other Renewables.....	154	305	244	260	254	254	192	2.0	2.4
Pumped Storage.....	32	6	7	7	4	4	4	.4	*
Other	0	0	0	0	1	1	1	.0	*

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Connecticut									
Electric Utilities	32,155,574	26,931,900	16,992,594	2,816,826	21,463	59,812	45,095	91.5	0.1
Coal.....	2,351,049	2,269,352	0	0	0	0	0	6.7	.0
Petroleum.....	8,632,571	3,397,400	7,726	11,032	928	13,955	9,253	24.6	*
Natural Gas.....	471,836	1,819,535	0	0	0	0	0	1.3	.0
Nuclear.....	19,776,250	18,748,900	16,365,334	2,629,741	0	0	0	56.3	.0
Hydroelectric.....	495,848	305,401	146,980	29,065	20,535	45,857	35,842	1.4	.1
Other Renewables.....	421,546	403,726	476,922	146,988	0	0	0	1.2	.0
Pumped Storage.....	6,474	-12,414	-4,368	0	0	0	0	*	.0
Independent Power Producers and Combined									
Heat and Power	2,991,673	4,540,568	15,974,976	27,673,820	31,289,757	29,485,238	32,588,311	8.5	99.9
Coal.....	1,243,596	1,588,203	3,186,096	3,735,782	3,227,202	4,200,297	4,256,431	3.5	13.0
Petroleum.....	241,895	182,063	6,671,306	5,161,903	2,336,957	2,048,713	1,728,466	.7	5.3
Natural Gas.....	779,643	1,199,708	4,062,029	4,088,228	8,868,471	5,061,613	8,108,840	2.2	24.8
Other Gases.....	4	79	0	1,498	8,834	0	0	.0	.0
Nuclear.....	0	0	0	12,798,026	14,918,272	16,078,095	16,539,097	.0	50.7
Hydroelectric.....	74,771	58,402	379,332	257,308	314,553	518,559	426,770	.2	1.3
Other Renewables.....	651,764	1,512,113	1,676,213	1,631,075	1,625,668	1,565,942	1,509,036	1.9	4.6
Pumped Storage.....	0	0	0	0	-10,201	-18	7,715	.0	*
Other.....	0	0	0	0	0	12,037	11,957	.0	*
Total Electric Industry									
Coal	35,147,247	31,472,468	32,967,570	30,490,646	31,311,219	29,545,050	32,633,408	100.0	100.0
Coal.....	3,594,645	3,857,555	3,186,096	3,735,782	3,227,202	4,200,297	4,256,431	10.2	13.0
Petroleum.....	8,874,466	3,579,463	6,679,032	5,172,935	2,337,885	2,062,668	1,737,719	25.2	5.3
Natural Gas.....	1,251,479	3,019,243	4,062,029	4,088,228	8,868,471	5,061,613	8,108,840	3.6	24.8
Other Gases.....	4	79	0	1,498	8,834	0	0	.0	.0
Nuclear.....	19,776,250	18,748,900	16,365,334	15,427,767	14,918,272	16,078,095	16,539,097	56.3	50.7
Hydroelectric.....	570,619	363,803	526,312	286,373	335,088	564,416	462,612	1.6	1.4
Other Renewables.....	1,073,310	1,915,839	2,153,135	1,778,063	1,625,668	1,565,942	1,509,036	3.1	4.6
Pumped Storage.....	6,474	-12,414	-4,368	0	-10,201	-18	7,715	*	*
Other.....	0	0	0	0	0	12,037	11,957	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Connecticut							
Coal (cents per million Btu).....	212.9	188.1	0.0	0.0	W	W	W
Average heat value (Btu per pound).....	13,233	13,110	0	0	11,309	10,565	10,423
Average sulfur Content (percent).....	.5	.6	.0	.0	.9	.5	.5
Petroleum (cents per million Btu).....	301.5	264.0	.0	.0	422.4	542.0	568.0
Average heat value (Btu per gallon).....	150,789	153,274	0	0	149,929	146,743	147,602
Average sulfur Content (percent).....	.9	.7	.0	.0	.4	.4	.3
Natural Gas (cents per million Btu).....	270.2	197.8	.0	.0	392.0	W	W
Average heat value (Btu per cubic foot).....	1,033	1,017	0	0	1,023	1,020	1,008

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Connecticut							
Sulfur Dioxide							
Coal	11	10	8	9	4	3	3
Petroleum.....	40	15	26	22	6	5	4
Natural Gas	0	*	*	*	*	*	*
Other.....	1	*	*	*	*	*	*
Total.....	52	25	34	31	10	8	7
Nitrogen Oxide							
Coal	14	13	3	4	2	2	2
Petroleum.....	13	4	7	6	2	2	2
Gas.....	2	3	3	2	2	1	1
Other.....	2	3	3	3	3	5	5
Total.....	32	23	16	15	9	11	10
Carbon Dioxide							
Coal	3,635	3,686	3,332	3,677	3,156	3,926	4,107
Petroleum.....	7,393	3,205	5,792	4,295	1,975	1,869	1,665
Gas.....	768	1,790	2,228	2,074	3,948	2,509	3,301
Geothermal.....	0	0	0	0	0	0	0
Other.....	665	234	264	262	1,210	1,230	1,188
Total.....	12,460	8,915	11,616	10,309	10,289	9,534	10,262

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Connecticut									
Retail Sales (thousand megawatthours)									
Residential.....	10,376	10,760	11,645	11,975	12,473	13,178	13,211	38.2	41.0
Commercial	10,342	10,926	11,932	12,442	12,614	13,094	13,455	38.0	41.8
Industrial.....	6,100	5,913	5,811	5,572	5,370	5,366	5,358	22.4	16.6
Other	369	370	564	552	548	NA	NA	1.4	NA
Transportation.....	NA	NA	NA	NA	NA	192	190	NA	.6
Total.....	27,187	27,970	29,952	30,541	31,005	31,830	32,215	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,038	1,286	1,264	1,306	1,367	1,491	1,537	41.7	46.5
Commercial	943	1,129	1,106	1,152	1,176	1,300	1,332	37.9	40.3
Industrial.....	461	469	425	425	412	429	423	18.5	12.8
Other	47	53	57	55	57	NA	NA	1.9	NA
Transportation.....	NA	NA	NA	NA	NA	15	14	NA	.4
Total.....	2,489	2,938	2,852	2,937	3,012	3,235	3,305	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	10.01	11.95	10.86	10.90	10.96	11.31	11.63	NA	NA
Commercial	9.11	10.33	9.27	9.26	9.32	9.93	9.90	NA	NA
Industrial.....	7.55	7.94	7.31	7.62	7.68	7.99	7.89	NA	NA
Other	12.83	14.38	10.06	10.00	10.35	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.72	7.25	NA	NA
Total.....	9.15	10.50	9.52	9.62	9.71	10.16	10.26	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Connecticut								
Number of Entities.....	3	8	NA	NA	NA	4	2	17
Number of Retail Customers.....	1,485,941	70,134	NA	NA	NA	21,717	NA	1,577,792
Retail Sales (thousand megawatthours)	29,368	2,102	NA	NA	NA	744	NA	32,215
Percentage of Retail Sales	91.16	6.52	NA	NA	NA	2.31	NA	100.00
Revenue from Retail Sales (million dollars)	3,062	169	NA	NA	NA	41	33	3,305
Percentage of Revenue.....	92.66	5.11	NA	NA	NA	1.23	1.00	100.00
Average Retail Price (cents/kWh).....	10.43	8.04	NA	NA	NA	5.46	4.42	10.26

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Delaware		
NERC Region(s).....		MAAC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	3,428	44
Electric Utilities	58	48
Independent Power Producers & Combined Heat and Power	3,370	27
Net Generation (megawatthours).....	7,855,553	46
Electric Utilities	23,751	48
Independent Power Producers & Combined Heat and Power	7,831,802	29
Emissions (thousand metric tons)		
Sulfur Dioxide	35	37
Nitrogen Oxide	13	42
Carbon Dioxide	6,531	45
Sulfur Dioxide (lbs/MWh).....	9.7	8
Nitrogen Oxide (lbs/MWh).....	3.7	12
Carbon Dioxide (lbs/MWh).....	1,833	11
Total Retail Sales (megawatthours).....	11,761,153	43
Full Service Provider Sales (megawatthours).....	10,751,187	42
Deregulated Sales (megawatthours).....	1,009,966	13
Direct Use (megawatthours).....	564,017	34
Average Retail Price (cents/kWh).....	7.53	16

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Delaware			
1. Hay Road.....	Other,Gas	Conectiv Delmarva Gen Inc	1,085
2. Indian River Operations.....	Petroleum,Coal	Indian River Operations Inc	784
3. Edge Moor.....	Gas,Petroleum,Coal	Conectiv Delmarva Gen Inc	718
4. Delaware City Plant.....	Gas,Petroleum	Premcor	386
5. McKee Run	Gas,Petroleum	DE 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	44
9. Van Sant Station	Petroleum,Gas	DE Operating Services, LLC	39
10. Seaford Delaware Plant.....	Gas,Petroleum,Coal	Invista	27

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Delaware						
1. Delmarva Power & Light Company	Investor-Owned	8,001,293	2,968,451	3,379,982	1,652,860	0
2. Delaware Electric Coop Inc	Cooperative	1,004,488	831,467	161,289	11,732	0
3. Dover City of	Public	738,673	187,234	238,978	312,461	0
4. Newark City of	Public	389,429	94,943	70,388	224,098	0
5. Select Energy	Power Marketer	321,784	0	3,218	318,566	0
Total Sales, Top Five Providers		10,455,667	4,082,095	3,853,855	2,519,717	0
Percent of Total State Sales		89	95	96	74	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Delaware									
Electric Utilities	1,965	2,239	985	184	58	58	58	91.8	1.7
Coal	919	910	767	0	0	0	0	42.9	.0
Petroleum	227	124	43	9	9	9	9	10.6	.3
Natural Gas	187	399	0	0	0	0	0	8.7	.0
Dual Fired	631	806	175	175	49	49	49	29.5	1.4
Independent Power Producers and Combined									
Heat and Power	177	177	1,430	2,517	3,332	3,334	3,370	8.3	98.3
Coal	37	37	260	1,034	1,050	1,052	1,070	1.7	31.2
Petroleum	134	134	530	968	561	561	105	6.3	3.1
Natural Gas	0	0	89	515	183	183	79	.0	2.3
Other Gases	1	1	283	0	303	303	307	*	9.0
Dual Fired	4	4	267	0	1,235	1,235	1,809	.2	52.8
Total Electric Industry	2,141	2,416	2,414	2,700	3,390	3,392	3,428	100.0	100.0
Coal	956	947	1,027	1,034	1,050	1,052	1,070	44.7	31.2
Petroleum	361	258	573	977	570	570	114	16.9	3.3
Natural Gas	187	399	89	515	184	184	79	8.7	2.3
Other Gases	1	1	283	0	303	303	307	*	9.0
Dual Fired	635	810	442	175	1,284	1,284	1,858	29.7	54.2

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Delaware									
Electric Utilities	7,099,663	8,324,101	4,137,127	1,872,053	170,994	31,107	23,751	90.5	0.3
Coal.....	4,904,473	4,226,615	3,319,195	1,626,254	0	0	0	62.5	.0
Petroleum.....	1,436,186	917,065	398,100	209,088	154,118	9,863	10,083	18.3	.1
Natural Gas.....	759,004	3,180,421	419,832	36,711	16,876	21,244	13,668	9.7	.2
Independent Power Producers and Combined									
Heat and Power	741,837	708,736	1,850,324	4,935,631	5,831,495	7,361,180	7,831,802	9.5	99.7
Coal.....	209,006	212,359	793,101	1,742,253	3,463,565	4,026,496	4,750,119	2.7	60.5
Petroleum.....	357,620	368,130	450,940	1,497,541	795,577	1,707,001	1,081,258	4.6	13.8
Natural Gas.....	4,015	5,138	420,676	1,538,775	1,426,007	1,442,536	1,701,094	.1	21.7
Other Gases.....	164,881	113,827	166,769	157,062	146,346	185,147	299,329	2.1	3.8
Other Renewables.....	0	0	18,838	0	0	0	0	.0	.0
Other.....	6,315	9,282	0	0	0	0	0	.1	.0
Total Electric Industry	7,841,500	9,032,837	5,987,451	6,807,684	6,002,489	7,392,287	7,855,553	100.0	100.0
Coal.....	5,113,479	4,438,974	4,112,296	3,368,507	3,463,565	4,026,496	4,750,119	65.2	60.5
Petroleum.....	1,793,806	1,285,195	849,040	1,706,629	949,695	1,716,864	1,091,341	22.9	13.9
Natural Gas.....	763,019	3,185,559	840,508	1,575,486	1,442,883	1,463,780	1,714,762	9.7	21.8
Other Gases.....	164,881	113,827	166,769	157,062	146,346	185,147	299,329	2.1	3.8
Other Renewables.....	0	0	18,838	0	0	0	0	.0	.0
Other.....	6,315	9,282	0	0	0	0	0	.1	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Delaware							
Coal (cents per million Btu).....	181.5	161.5	152.1	216.9	W	W	W
Average heat value (Btu per pound).....	13,035	13,085	12,995	11,496	12,352	12,803	12,530
Average sulfur Content (percent).....	1.0	1.0	1.0	.7	.9	.9	.8
Petroleum (cents per million Btu).....	278.2	260.9	445.9	380.5	405.6	576.2	610.6
Average heat value (Btu per gallon).....	151,270	152,013	150,486	148,143	146,095	147,895	146,312
Average sulfur Content (percent).....	1.2	.8	.5	.8	.7	.5	.4
Natural Gas (cents per million Btu).....	257.7	227.2	488.5	427.2	W	W	W
Average heat value (Btu per cubic foot).....	1,054	1,032	1,008	1,037	1,023	1,043	1,036

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Delaware							
Sulfur Dioxide							
Coal	38	37	35	29	28	32	33
Petroleum.....	41	35	4	6	4	4	2
Natural Gas	0	*	*	*	*	0	0
Other.....	*	*	0	0	0	*	*
Total.....	80	73	39	35	32	36	35
Nitrogen Oxide							
Coal	22	16	9	8	7	8	9
Petroleum.....	5	3	3	4	3	4	2
Gas.....	1	3	*	1	1	1	1
Other.....	0	0	0	0	0	*	1
Total.....	27	21	13	13	11	13	13
Carbon Dioxide							
Coal	5,227	4,759	4,368	3,288	3,655	4,153	4,941
Petroleum.....	2,236	1,836	1,226	1,924	1,278	2,196	781
Gas.....	438	1,487	448	828	1,078	646	809
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	7,902	8,082	6,042	6,040	6,012	6,996	6,531

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Delaware									
Retail Sales (thousand megawatthours)									
Residential.....	2,651	3,168	3,575	3,734	4,020	4,190	4,305	32.0	36.6
Commercial	2,311	2,842	4,050	3,605	3,787	3,886	4,033	27.9	34.3
Industrial.....	3,272	3,511	3,601	3,978	4,151	4,523	3,423	39.5	29.1
Other	50	58	49	62	60	NA	NA	.6	NA
Total.....	8,284	9,580	11,274	11,379	12,019	12,600	11,761	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	223	288	305	321	350	360	378	41.7	42.7
Commercial	160	201	239	252	271	284	300	29.9	33.9
Industrial.....	148	166	134	191	201	233	207	27.7	23.4
Other	5	7	7	9	8	NA	NA	.9	NA
Total.....	535	662	685	774	830	877	885	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	8.39	9.08	8.54	8.61	8.70	8.59	8.78	NA	NA
Commercial	6.91	7.08	5.89	7.00	7.15	7.31	7.44	NA	NA
Industrial.....	4.51	4.72	3.73	4.81	4.85	5.15	6.06	NA	NA
Other	10.33	11.95	14.19	14.17	14.13	NA	NA	NA	NA
Total.....	6.46	6.91	6.08	6.80	6.91	6.96	7.53	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Delaware								
Number of Entities.....	1	9	NA	1	NA	4	1	16
Number of Retail Customers.....	285,011	56,249	NA	68,734	NA	9	NA	410,003
Retail Sales (thousand megawatthours).....	8,001	1,745	NA	1,004	NA	1,010	NA	11,761
Percentage of Retail Sales.....	68.03	14.84	NA	8.54	NA	8.59	NA	100.00
Revenue from Retail Sales (million dollars).....	587	147	NA	84	NA	65	2	885
Percentage of Revenue.....	66.36	16.56	NA	9.53	NA	7.34	.21	100.00
Average Retail Price (cents/kWh).....	7.34	8.40	NA	8.40	NA	6.43	.19	7.53

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. 2004 Summary Statistics

Item	Value	U.S. Rank
District of Columbia		
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)	36,487	51
Independent Power Producers & Combined Heat and Power	36,487	51
Emissions (thousand metric tons)		
Sulfur Dioxide.....	*	50
Nitrogen Oxide.....	*	51
Carbon Dioxide.....	56	50
Sulfur Dioxide (lbs/MWh).....	9.5	10
Nitrogen Oxide (lbs/MWh).....	4.4	4
Carbon Dioxide (lbs/MWh).....	3,376	1
Total Retail Sales (megawatthours)	11,414,847	44
Full Service Provider Sales (megawatthours)	7,760,518	47
Deregulated Sales (megawatthours)	3,654,329	11
Direct Use (megawatthours).....	384	50
Average Retail Price (cents/kWh).....	7.47	17

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
District of Columbia			
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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
District of Columbia						
1. Potomac Electric Power Co	Investor-Owned	7,760,518	1,634,261	5,973,243	153,014	0
2. Washington Gas Energy Services.....	Power Marketer	3,019,480	120,230	2,741,344	157,906	0
3. Constellation NewEnergy, Inc	Power Marketer	298,643	0	0	0	298,643
PEPCO Energy Services.....	Power Marketer	276,601	126,187	150,414	0	0
Total Sales, Top Five Providers.....		11,355,242	1,880,678	8,865,001	310,920	298,643
Percent of Total State Sales		99	100	99	100	98

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
District of Columbia									
Electric Utilities	806	806	0	0	0	0	0	99.6	0.0
Petroleum	806	806	0	0	0	0	0	99.6	.0
Independent Power Producers and Combined									
Heat and Power	3	3	804	806	806	806	806	.4	100.0
Coal	3	3	0	0	0	0	0	.4	.0
Petroleum	0	0	804	806	806	806	806	.0	100.0
Total Electric Industry	809	809	804	806	806	806	806	100.0	100.0
Coal	3	3	0	0	0	0	0	.4	.0
Petroleum	806	806	804	806	806	806	806	99.6	100.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
District of Columbia									
Electric Utilities	361,043	188,862	97,423	0	0	0	0	100.0	0.0
Petroleum	361,043	188,862	97,423	0	0	0	0	100.0	.0
Independent Power Producers and Combined									
Heat and Power	0	0	46,951	123,239	261,980	74,144	36,487	.0	100.0
Petroleum	0	0	46,951	123,239	261,980	74,144	36,487	.0	100.0
Total Electric Industry	361,043	188,862	144,374	123,239	261,980	74,144	36,487	100.0	100.0
Petroleum	361,043	188,862	144,374	123,239	261,980	74,144	36,487	100.0	100.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
District of Columbia							
Petroleum (cents per million Btu).....	363.3	309.5	543.4	0.0	W	W	W
Average heat value (Btu per gallon).....	143,239	142,998	142,643	0	138,483	142,324	141,352
Average sulfur Content (percent).....	.9	1.0	.9	.0	.6	.6	.4

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
District of Columbia							
Sulfur Dioxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	2	2	1	1	1	*	*
Natural Gas	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	2	2	1	1	1	*	*
Nitrogen Oxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	*	*	*	*	1	*	*
Gas.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	*	*	*	*	1	*	*
Carbon Dioxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	399	220	169	162	261	82	56
Gas.....	0	0	0	0	0	0	0
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	399	220	169	162	261	82	56

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
District of Columbia									
Retail Sales (thousand megawatthours)									
Residential.....	1,480	1,608	1,624	1,699	1,790	1,754	1,834	15.0	16.1
Commercial	5,073	8,079	8,332	8,539	8,645	8,639	8,994	51.5	78.8
Industrial.....	2,976	262	273	281	282	267	282	30.2	2.5
Other	319	366	387	362	411	NA	NA	3.2	NA
Transportation.....	NA	NA	NA	NA	NA	285	304	NA	2.7
Total.....	9,848	10,316	10,616	10,880	11,129	10,946	11,415	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	90	123	130	132	143	138	147	15.4	17.3
Commercial	322	578	629	636	633	635	670	55.0	78.6
Industrial.....	154	11	13	14	14	15	13	26.3	1.5
Other	18	23	26	23	27	NA	NA	3.1	NA
Transportation.....	NA	NA	NA	NA	NA	22	22	NA	2.6
Total.....	585	735	798	805	817	810	852	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.10	7.62	8.03	7.79	7.98	7.84	8.00	NA	NA
Commercial	6.35	7.15	7.55	7.45	7.32	7.35	7.45	NA	NA
Industrial.....	5.16	4.36	4.74	4.81	4.95	5.57	4.74	NA	NA
Other	5.78	6.33	6.67	6.39	6.59	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.64	7.37	NA	NA
Total.....	5.94	7.12	7.52	7.40	7.34	7.40	7.47	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
District of Columbia								
Number of Entities.....	1	NA	NA	NA	NA	3	1	5
Number of Retail Customers.....	208,145	NA	NA	NA	NA	20,088	NA	228,233
Retail Sales (thousand megawatthours)	7,761	NA	NA	NA	NA	3,654	NA	11,415
Percentage of Retail Sales	67.99	NA	NA	NA	NA	32.01	NA	100.00
Revenue from Retail Sales (million dollars)	579	NA	NA	NA	NA	168	106	852
Percentage of Revenue.....	67.93	NA	NA	NA	NA	19.69	12.38	100.00
Average Retail Price (cents/kWh).....	7.46	NA	NA	NA	NA	4.59	2.89	7.47

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.

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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. 2004 Summary Statistics

Item	Value	U.S. Rank
Florida		
NERC Region(s).....		FRCC/SERC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	50,654	3
Electric Utilities	42,619	1
Independent Power Producers & Combined Heat and Power	8,035	12
Net Generation (megawatthours).....	218,117,928	2
Electric Utilities	193,383,664	1
Independent Power Producers & Combined Heat and Power	24,734,264	12
Emissions (thousand metric tons)		
Sulfur Dioxide	443	9
Nitrogen Oxide.....	241	2
Carbon Dioxide.....	130,089	2
Sulfur Dioxide (lbs/MWh).....	4.5	26
Nitrogen Oxide (lbs/MWh).....	2.4	25
Carbon Dioxide (lbs/MWh).....	1,315	28
Total Retail Sales (megawatthours).....	218,584,494	3
Full Service Provider Sales (megawatthours).....	218,584,494	2
Direct Use (megawatthours).....	6,910,150	4
Average Retail Price (cents/kWh).....	8.16	13

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Florida			
1. Crystal River	Petroleum,Nuclear,Coal	Florida Power Corp	3,140
2. Martin	Petroleum,Gas	Florida Power & Light Co	2,906
3. Fort Myers.....	Petroleum,Gas	Florida Power & Light Co	2,399
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	1,838
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. H. L. Culbreath Bayside	Gas	Tampa Electric Co	1,632

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Florida						
1. Florida Power & Light Co.....	Investor-Owned	99,144,067	52,528,487	42,556,194	3,966,117	93,269
2. Florida Power Corp.....	Investor-Owned	38,193,103	19,347,267	14,777,209	4,068,627	0
3. Tampa Electric Co.....	Investor-Owned	18,436,670	8,292,829	7,587,550	2,555,667	624
4. JEA.....	Public	12,311,409	5,424,326	3,947,739	2,935,037	4,307
5. Gulf Power Co.....	Investor-Owned	11,046,409	5,215,332	3,718,050	2,113,027	0
Total Sales, Top Five Providers.....		179,131,658	90,808,241	72,586,742	15,638,475	98,200
Percent of Total State Sales		82	81	84	80	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Florida									
Electric Utilities	32,714	35,857	37,264	38,240	40,313	41,996	42,619	95.8	84.1
Coal.....	9,971	10,069	10,783	10,783	11,301	10,223	9,653	29.2	19.1
Petroleum.....	5,531	5,577	5,714	5,700	4,894	3,033	3,685	16.2	7.3
Natural Gas.....	1,990	3,563	3,347	3,630	3,570	6,405	7,158	5.8	14.1
Dual Fired.....	11,362	12,785	13,472	14,177	16,587	18,376	18,162	33.3	35.9
Nuclear.....	3,813	3,822	3,898	3,898	3,906	3,902	3,902	11.2	7.7
Hydroelectric	48	41	47	47	50	50	55	.1	.1
Other Renewables.....	0	0	3	5	5	8	5	.0	*
Independent Power Producers and Combined									
Heat and Power	1,443	3,850	4,276	4,566	6,741	7,422	8,035	4.2	15.9
Coal.....	242	811	693	806	806	799	769	.7	1.5
Petroleum.....	32	58	21	18	18	17	17	.1	*
Natural Gas.....	107	867	744	917	521	694	1,336	.3	2.6
Dual Fired.....	65	703	1,321	1,725	4,043	4,606	4,664	.2	9.2
Other Renewables.....	690	1,062	1,134	956	962	895	932	2.0	1.8
Other	307	347	361	144	391	410	315	.9	.6
Total Electric Industry									
34,157	39,706	41,540	42,805	47,054	49,419	50,654	100.0	100.0	
Coal.....	10,214	10,881	11,477	11,589	12,107	11,022	10,422	29.9	20.6
Petroleum.....	5,564	5,635	5,736	5,718	4,912	3,050	3,702	16.3	7.3
Natural Gas.....	2,096	4,430	4,091	4,547	4,091	7,099	8,494	6.1	16.8
Dual Fired.....	11,426	13,488	14,793	15,901	20,630	22,982	22,826	33.5	45.1
Nuclear.....	3,813	3,822	3,898	3,898	3,906	3,902	3,902	11.2	7.7
Hydroelectric	48	41	47	47	50	50	55	.1	.1
Other Renewables.....	690	1,062	1,138	962	967	903	937	2.0	1.8
Other	307	347	361	144	391	410	315	.9	.6

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Florida									
Electric Utilities	123,623,905	147,156,684	169,888,638	170,966,177	182,346,629	188,034,719	193,383,664	94.0	88.7
Coal.....	59,073,203	61,864,438	67,143,257	63,090,794	60,997,142	62,094,661	60,013,823	44.9	27.5
Petroleum.....	25,092,296	21,583,186	34,337,080	39,075,398	32,449,236	35,545,897	35,824,155	19.1	16.4
Natural Gas.....	17,504,242	34,737,603	36,002,612	36,943,903	54,883,087	59,013,591	65,940,807	13.3	30.2
Nuclear.....	21,779,560	28,740,617	32,291,345	31,583,404	33,704,230	30,979,481	31,215,576	16.6	14.3
Hydroelectric.....	174,604	230,840	86,769	147,718	184,114	262,667	265,258	.1	.1
Other Renewables.....	0	0	27,575	124,960	128,820	138,421	124,045	.0	.1
Independent Power Producers and Combined Heat and Power	7,878,648	20,257,688	21,927,202	19,979,167	21,006,145	24,575,293	24,734,264	6.0	11.3
Coal.....	1,027,054	3,897,403	5,598,572	5,136,944	4,929,251	5,579,919	4,863,044	.8	2.2
Petroleum.....	442,842	704,315	1,405,950	1,504,541	1,232,115	1,658,672	1,405,828	.3	.6
Natural Gas.....	1,138,441	8,017,547	7,200,255	6,625,902	8,280,948	9,279,829	10,688,070	.9	4.9
Other Gases.....	0	31,478	23,471	634	13,079	10,505	10,555	.0	*
Other Renewables.....	3,817,209	5,579,958	5,662,771	4,918,320	5,014,581	5,667,271	5,690,699	2.9	2.6
Other.....	1,453,102	2,026,987	2,036,183	1,792,826	1,536,171	2,379,097	2,076,068	1.1	1.0
Total Electric Industry	131,502,553	167,414,372	191,815,840	190,945,344	203,352,775	212,610,011	218,117,928	100.0	100.0
Coal.....	60,100,257	65,761,841	72,741,829	68,227,738	65,926,393	67,674,580	64,876,867	45.7	29.7
Petroleum.....	25,535,138	22,287,501	35,743,030	40,579,939	33,681,351	37,204,569	37,229,983	19.4	17.1
Natural Gas.....	18,642,683	42,755,150	43,202,867	43,569,805	63,164,035	68,293,420	76,628,877	14.2	35.1
Other Gases.....	0	31,478	23,471	634	13,079	10,505	10,555	.0	*
Nuclear.....	21,779,560	28,740,617	32,291,345	31,583,404	33,704,230	30,979,481	31,215,576	16.6	14.3
Hydroelectric.....	174,604	230,840	86,769	147,718	184,114	262,667	265,258	.1	.1
Other Renewables.....	3,817,209	5,579,958	5,690,346	5,043,280	5,143,401	5,805,692	5,814,744	2.9	2.7
Other.....	1,453,102	2,026,987	2,036,183	1,792,826	1,536,171	2,379,097	2,076,068	1.1	1.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Florida							
Coal (cents per million Btu).....	184.9	178.6	156.9	171.8	176.2	175.5	191.5
Average heat value (Btu per pound).....	12,364	12,296	12,330	12,110	12,247	12,281	12,249
Average sulfur Content (percent).....	1.7	1.5	1.6	1.5	1.5	1.4	1.4
Petroleum (cents per million Btu).....	301.9	247.0	408.8	338.8	324.0	388.6	392.1
Average heat value (Btu per gallon).....	151,011	150,634	147,164	150,167	147,664	148,431	148,183
Average sulfur Content (percent).....	1.2	1.5	1.5	1.6	1.8	2.0	2.0
Natural Gas (cents per million Btu).....	253.3	223.6	433.8	453.2	396.7	573.3	629.0
Average heat value (Btu per cubic foot).....	1,011	1,010	1,038	1,042	1,026	1,041	1,032

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Florida							
Sulfur Dioxide							
Coal	436	377	330	293	281	240	235
Petroleum.....	168	146	225	259	178	213	193
Natural Gas	*	*	*	*	1	*	*
Other.....	28	35	12	12	15	15	15
Total.....	633	558	567	564	475	468	443
Nitrogen Oxide							
Coal	217	243	183	181	173	155	141
Petroleum.....	38	31	71	72	52	62	59
Gas.....	26	47	36	35	33	24	24
Other.....	9	12	11	10	11	17	17
Total.....	290	333	301	298	269	257	241
Carbon Dioxide							
Coal	55,610	61,255	68,141	65,082	64,403	65,078	63,028
Petroleum.....	22,104	18,994	29,999	32,874	27,850	31,166	31,504
Gas.....	11,378	21,594	21,352	21,606	29,447	30,220	33,169
Geothermal.....	0	0	0	0	0	0	0
Other.....	389	614	568	566	2,560	2,333	2,388
Total.....	89,481	102,456	120,059	120,127	124,259	128,796	130,089

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Florida									
Retail Sales (thousand megawatthours)									
Residential.....	71,115	85,770	99,006	101,377	108,164	112,650	112,203	49.5	51.3
Commercial	51,342	60,079	72,130	73,958	77,561	85,257	86,765	35.8	39.7
Industrial.....	16,605	16,473	18,884	19,854	18,959	19,375	19,518	11.6	8.9
Other	4,473	5,171	5,824	5,563	5,789	NA	NA	3.1	NA
Transportation.....	NA	NA	NA	NA	NA	97	98	NA	.0
Total.....	143,535	167,492	195,843	200,752	210,474	217,379	218,584	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	5,527	6,711	7,696	8,713	8,823	9,636	10,086	54.7	56.6
Commercial	3,421	3,838	4,511	5,239	5,150	6,083	6,601	33.9	37.0
Industrial.....	844	850	913	1,028	991	1,048	1,140	8.4	6.4
Other	306	346	405	423	430	NA	NA	3.0	NA
Transportation.....	NA	NA	NA	NA	NA	7	7	NA	.0
Total.....	10,098	11,745	13,526	15,403	15,394	16,774	17,835	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.77	7.82	7.77	8.59	8.16	8.55	8.99	NA	NA
Commercial	6.66	6.39	6.25	7.08	6.64	7.13	7.61	NA	NA
Industrial.....	5.08	5.16	4.84	5.18	5.22	5.41	5.84	NA	NA
Other	6.83	6.69	6.96	7.60	7.43	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.21	7.45	NA	NA
Total.....	7.03	7.01	6.91	7.67	7.31	7.72	8.16	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Florida								
Number of Entities.....	5	32	NA	16	NA	NA	NA	53
Number of Retail Customers.....	6,818,067	1,217,482	NA	924,478	NA	NA	NA	8,960,027
Retail Sales (thousand megawatthours)	167,587	34,027	NA	16,970	NA	NA	NA	218,584
Percentage of Retail Sales	76.67	15.57	NA	7.76	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	13,874	2,557	NA	1,403	NA	NA	NA	17,835
Percentage of Revenue.....	77.80	14.34	NA	7.87	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	8.28	7.51	NA	8.27	NA	NA	NA	8.16

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Georgia		
NERC Region(s).....		SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	35,338	7
Electric Utilities	25,404	3
Independent Power Producers & Combined Heat and Power	9,934	10
Net Generation (megawatthours).....	126,812,715	10
Electric Utilities	117,918,895	5
Independent Power Producers & Combined Heat and Power	8,893,820	27
Emissions (thousand metric tons)		
Sulfur Dioxide	584	4
Nitrogen Oxide	116	12
Carbon Dioxide	81,496	9
Sulfur Dioxide (lbs/MWh).....	10.2	6
Nitrogen Oxide (lbs/MWh).....	2.0	30
Carbon Dioxide (lbs/MWh).....	1,417	25
Total Retail Sales (megawatthours).....	129,465,784	8
Full Service Provider Sales (megawatthours).....	129,465,784	5
Direct Use (megawatthours).....	5,562,700	6
Average Retail Price (cents/kWh).....	6.58	29

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Georgia			
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	1,752
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	KGEN Power Partners, LLC	1,244
9. Wansley Combined Cycle.....	Gas	Southern Power Co	1,066
10. Tenaska Georgia Generation Facility	Petroleum,Gas	Tenaska Georgia Partners LP	933

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Georgia						
1. Georgia Power Co	Investor-Owned	77,904,202	22,930,371	28,436,240	26,357,271	180,320
2. Savannah Electric & Power Co	Investor-Owned	4,422,302	1,899,462	1,682,268	840,572	0
3. Jackson Electric Member Corp.....	Cooperative	4,205,835	2,423,925	1,252,663	529,247	0
4. Cobb Electric Membership Corp.....	Cooperative	3,573,782	2,215,550	1,130,752	227,480	0
5. North Georgia Elec Member Corp	Cooperative	2,628,621	1,389,574	482,075	756,972	0
Total Sales, Top Five Providers.....		92,734,742	30,858,882	32,983,998	28,711,542	180,320
Percent of Total State Sales		72	60	78	80	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Georgia									
Electric Utilities	20,731	22,290	24,860	24,099	25,821	24,804	25,404	95.6	71.9
Coal.....	12,952	12,551	13,470	13,503	13,498	13,331	13,215	59.7	37.4
Petroleum.....	926	1,064	990	991	991	991	991	4.3	2.8
Natural Gas.....	27	33	743	903	2,315	1,721	2,195	.1	6.2
Dual Fired.....	630	1,408	2,058	1,225	1,225	1,170	1,275	2.9	3.6
Nuclear.....	3,726	3,900	4,145	4,023	4,023	4,040	4,053	17.2	11.5
Hydroelectric	1,981	2,209	2,329	2,331	2,316	2,097	2,000	9.1	5.7
Pumped Storage.....	488	1,124	1,124	1,124	1,454	1,454	1,675	2.2	4.7
Independent Power Producers and Combined									
Heat and Power.....	964	1,386	2,896	5,383	8,780	10,011	9,934	4.4	28.1
Coal.....	79	64	261	312	317	317	273	.4	.8
Petroleum.....	143	192	189	178	253	307	262	.7	.7
Natural Gas.....	39	26	600	1,443	4,184	5,364	5,269	.2	14.9
Dual Fired.....	91	400	1,338	3,029	3,613	3,613	3,614	.4	10.2
Hydroelectric	9	13	11	10	10	11	11	*	*
Other Renewables.....	603	689	497	410	402	399	505	2.8	1.4
Total Electric Industry	21,696	23,675	27,756	29,482	34,601	34,815	35,338	100.0	100.0
Coal.....	13,030	12,615	13,731	13,816	13,815	13,648	13,488	60.1	38.2
Petroleum.....	1,070	1,256	1,180	1,168	1,243	1,297	1,252	4.9	3.5
Natural Gas.....	67	59	1,342	2,346	6,500	7,084	7,463	.3	21.1
Dual Fired.....	722	1,808	3,397	4,254	4,838	4,784	4,889	3.3	13.8
Nuclear.....	3,726	3,900	4,145	4,023	4,023	4,040	4,053	17.2	11.5
Hydroelectric	1,991	2,223	2,341	2,341	2,325	2,109	2,012	9.2	5.7
Other Renewables.....	603	690	497	410	402	399	506	2.8	1.4
Pumped Storage.....	488	1,124	1,124	1,124	1,454	1,454	1,675	2.2	4.7

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Georgia									
Electric Utilities	97,565,058	102,015,724	116,176,834	110,564,676	111,855,967	115,755,114	117,918,895	95.0	93.0
Coal.....	67,564,750	65,880,095	79,007,166	73,443,695	77,288,328	77,858,022	79,185,166	65.8	62.4
Petroleum.....	164,987	218,515	641,415	275,630	233,940	278,618	156,672	.2	.1
Natural Gas.....	151,615	572,818	1,754,679	1,168,337	1,189,392	890,600	2,044,196	.1	1.6
Nuclear.....	24,796,884	30,660,626	32,472,935	33,681,769	31,107,735	33,256,649	33,747,705	24.1	26.6
Hydroelectric.....	4,544,712	4,146,208	2,455,467	2,564,955	2,684,740	4,107,318	3,663,002	4.4	2.9
Pumped Storage.....	342,110	537,462	-154,828	-569,710	-648,168	-636,093	-877,846	.3	-7
Independent Power Producers and Combined									
Heat and Power	5,121,182	5,862,872	7,700,579	7,752,113	14,656,248	8,321,720	8,893,820	5.0	7.0
Coal.....	980,942	1,062,265	1,093,284	1,117,486	1,539,796	780,467	770,571	1.0	.6
Petroleum.....	334,493	631,345	979,238	894,909	970,625	915,441	686,118	.3	.5
Natural Gas.....	678,565	887,066	2,496,398	2,697,536	5,699,758	3,386,391	4,151,766	.7	3.3
Hydroelectric.....	44,405	50,533	25,330	31,472	30,982	32,952	29,394	*	*
Other Renewables.....	3,082,776	3,231,663	3,104,799	3,009,307	6,415,087	3,206,469	3,255,971	3.0	2.6
Other.....	1	0	1,530	1,403	0	0	0	.0	.0
Total Electric Industry	102,686,240	107,878,596	123,877,413	118,316,789	126,512,215	124,076,834	126,812,715	100.0	100.0
Coal.....	68,545,692	66,942,360	80,100,450	74,561,181	78,828,124	78,638,489	79,955,737	66.8	63.0
Petroleum.....	499,480	849,860	1,620,653	1,170,539	1,204,565	1,194,059	842,790	.5	.7
Natural Gas.....	830,180	1,459,884	4,251,077	3,865,873	6,889,150	4,276,991	6,195,962	.8	4.9
Nuclear.....	24,796,884	30,660,626	32,472,935	33,681,769	31,107,735	33,256,649	33,747,705	24.1	26.6
Hydroelectric.....	4,589,117	4,196,741	2,480,797	2,596,427	2,715,722	4,140,270	3,692,396	4.5	2.9
Other Renewables.....	3,082,776	3,231,663	3,104,799	3,009,307	6,415,087	3,206,469	3,255,971	3.0	2.6
Pumped Storage.....	342,110	537,462	-154,828	-569,710	-648,168	-636,093	-877,846	.3	-7
Other.....	1	0	1,530	1,403	0	0	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Georgia							
Coal (cents per million Btu).....	178.6	166.8	154.2	166.1	W	171.9	180.2
Average heat value (Btu per pound).....	11,893	11,576	11,559	11,730	11,698	11,668	11,024
Average sulfur Content (percent).....	1.6	.8	.8	.8	.8	.8	.8
Petroleum (cents per million Btu).....	485.5	378.1	690.6	668.4	548.6	267.9	288.7
Average heat value (Btu per gallon).....	139,814	139,632	138,499	145,857	140,850	134,648	136,533
Average sulfur Content (percent).....	.8	.5	.5	.5	.4	4.3	4.2
Natural Gas (cents per million Btu).....	296.8	272.1	417.6	327.8	362.3	571.7	664.9
Average heat value (Btu per cubic foot).....	1,024	1,024	1,031	1,022	1,022	1,035	1,031

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Georgia							
Sulfur Dioxide							
Coal	805	440	488	468	499	517	524
Petroleum.....	13	2	25	41	50	42	33
Natural Gas	0	*	*	*	*	*	*
Other.....	30	39	31	27	48	27	27
Total.....	849	481	544	535	598	586	584
Nitrogen Oxide							
Coal	292	251	177	159	152	105	102
Petroleum.....	2	3	4	3	4	5	4
Gas.....	2	4	5	4	6	2	2
Other.....	10	10	8	8	14	9	8
Total.....	306	268	194	174	176	121	116
Carbon Dioxide							
Coal	64,316	66,461	74,418	69,877	75,350	74,703	76,469
Petroleum.....	1,295	1,878	2,832	2,242	2,478	2,320	1,966
Gas.....	1,075	1,705	3,197	2,834	3,796	2,175	2,913
Geothermal	0	0	0	0	0	0	0
Other.....	77	0	15	15	157	159	148
Total.....	66,764	70,044	80,462	74,968	81,781	79,356	81,496

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Georgia									
Retail Sales (thousand megawatthours)									
Residential.....	29,933	35,812	44,560	44,380	48,600	48,174	51,124	37.2	39.5
Commercial	22,868	27,741	36,951	37,839	38,887	40,554	42,316	28.4	32.7
Industrial.....	26,717	31,493	36,085	33,941	34,603	34,768	35,846	33.2	27.7
Other	922	1,145	1,589	1,631	1,699	NA	NA	1.1	NA
Transportation.....	NA	NA	NA	NA	NA	180	180	NA	.1
Total.....	80,440	96,192	119,185	117,790	123,789	123,677	129,466	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	2,233	2,811	3,386	3,428	3,706	3,711	4,016	42.3	47.1
Commercial	1,677	2,031	2,401	2,503	2,513	2,699	2,912	31.8	34.2
Industrial.....	1,291	1,423	1,481	1,454	1,366	1,397	1,587	24.5	18.6
Other	75	98	135	140	141	NA	NA	1.4	NA
Transportation.....	NA	NA	NA	NA	NA	9	9	NA	.1
Total.....	5,275	6,363	7,404	7,524	7,726	7,816	8,525	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.46	7.85	7.60	7.72	7.63	7.70	7.86	NA	NA
Commercial	7.33	7.32	6.50	6.61	6.46	6.66	6.88	NA	NA
Industrial.....	4.83	4.52	4.10	4.28	3.95	4.02	4.43	NA	NA
Other	8.11	8.60	8.51	8.56	8.31	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	4.81	5.12	NA	NA
Total.....	6.56	6.61	6.21	6.39	6.24	6.32	6.58	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Georgia								
Number of Entities.....	2	53	NA	43	NA	NA	NA	98
Number of Retail Customers.....	2,201,541	333,360	NA	1,729,631	NA	NA	NA	4,264,532
Retail Sales (thousand megawatthours)	82,327	11,753	NA	35,386	NA	NA	NA	129,466
Percentage of Retail Sales	63.59	9.08	NA	27.33	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	5,119	772	NA	2,635	NA	NA	NA	8,525
Percentage of Revenue.....	60.04	9.05	NA	30.91	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.22	6.57	NA	7.45	NA	NA	NA	6.58

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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Table 1. 2004 Summary Statistics

Item	Value	U.S. Rank
Hawaii		
NERC Region(s).....		--
Primary Energy Source		Petroleum
Net Summer Capability (megawatts).....	2,311	47
Electric Utilities	1,691	41
Independent Power Producers & Combined Heat and Power	620	43
Net Generation (megawatthours).....	11,410,403	44
Electric Utilities	6,982,469	39
Independent Power Producers & Combined Heat and Power	4,427,934	36
Emissions (thousand metric tons)		
Sulfur Dioxide.....	24	39
Nitrogen Oxide.....	13	41
Carbon Dioxide.....	8,912	42
Sulfur Dioxide (lbs/MWh).....	4.7	22
Nitrogen Oxide (lbs/MWh).....	2.6	23
Carbon Dioxide (lbs/MWh).....	1,722	16
Total Retail Sales (megawatthours).....	10,731,520	46
Full Service Provider Sales (megawatthours).....	10,731,520	43
Direct Use (megawatthours).....	480,616	36
Average Retail Price (cents/kWh).....	15.70	1

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Hawaii			
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. Kalaeloa 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. Keahole.....	Petroleum	Hawaii Electric Light Co Inc	63
9. Hamakua Energy Plant.....	Petroleum,Gas,Other	Hamakua Energy Partners LP	61
10. H Power.....	Petroleum,Other	Covanta Honolulu Resource Recovery	60

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Hawaii						
1. Hawaiian Electric Co Inc.....	Investor-Owned	7,732,834	2,151,329	2,454,705	3,126,800	0
2. Maui Electric Co Ltd.....	Investor-Owned	1,247,689	440,376	401,018	406,295	0
3. Hawaii Electric Light Co Inc.....	Investor-Owned	1,082,807	408,963	444,354	229,490	0
4. Kauai Island Utility Coop.....	Cooperative	446,923	161,486	118,968	166,469	0
Total Sales, Top Five Providers.....		10,510,253	3,162,154	3,419,045	3,929,054	0
Percent of Total State Sales.....		98	100	94	100	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Hawaii									
Electric Utilities	1,487	1,602	1,626	1,622	1,622	1,624	1,691	78.8	73.2
Petroleum	1,483	1,598	1,606	1,601	1,618	1,620	1,687	78.6	73.0
Natural Gas	0	0	15	15	0	0	0	.0	.0
Hydroelectric	3	3	4	3	2	2	2	.2	.1
Other Renewables	0	0	2	2	2	2	2	.0	.1
Independent Power Producers and Combined									
Heat and Power	400	758	762	669	645	644	620	21.2	26.8
Coal	22	213	213	202	202	202	180	1.2	7.8
Petroleum	133	276	331	189	196	212	262	7.1	11.3
Natural Gas	0	0	0	61	67	50	0	.0	.0
Other Gases	8	8	8	9	9	9	9	.4	.4
Hydroelectric	14	25	23	22	22	20	20	.7	.9
Other Renewables	223	236	187	186	148	151	149	11.8	6.4
Total Electric Industry	1,886	2,359	2,388	2,292	2,267	2,268	2,311	100.0	100.0
Coal	22	213	213	202	202	202	180	1.2	7.8
Petroleum	1,616	1,874	1,937	1,790	1,815	1,832	1,949	85.7	84.3
Natural Gas	0	0	15	76	67	50	0	.0	.0
Other Gases	8	8	8	9	9	9	9	.4	.4
Hydroelectric	18	28	26	25	23	22	22	1.0	1.0
Other Renewables	223	237	189	188	150	153	151	11.8	6.5

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Hawaii									
Electric Utilities	7,996,096	6,190,584	6,534,692	6,383,088	7,513,051	6,493,205	6,982,469	82.4	61.2
Petroleum	7,967,354	6,174,627	6,516,929	6,362,846	7,502,913	6,489,565	6,971,259	82.1	61.1
Hydroelectric	22,743	15,957	15,114	18,132	8,533	2,078	9,724	.2	.1
Other Renewables	5,999	0	2,649	2,110	1,605	1,562	1,486	.1	*
Independent Power Producers and Combined									
Heat and Power	1,706,656	4,113,399	4,058,711	4,250,005	4,150,019	4,483,167	4,427,934	17.6	38.8
Coal	2,381	1,561,204	1,578,585	1,604,764	1,545,797	1,644,137	1,603,811	*	14.1
Petroleum	768,508	1,504,368	1,534,853	1,860,978	1,964,077	2,012,985	1,855,462	7.9	16.3
Natural Gas	0	0	0	0	0	0	125,081	.0	1.1
Other Gases	16,163	69,307	42,173	37,855	40,816	40,251	40,794	.2	.4
Hydroelectric	56,773	81,853	88,344	82,618	86,535	88,427	84,177	.6	.7
Other Renewables	862,831	894,548	814,756	663,790	512,794	695,204	716,377	8.9	6.3
Other	0	2,119	0	0	0	2,162	2,231	.0	*
Total Electric Industry	9,702,752	10,303,983	10,593,403	10,633,093	11,663,070	10,976,371	11,410,403	100.0	100.0
Coal	2,381	1,561,204	1,578,585	1,604,764	1,545,797	1,644,137	1,603,811	*	14.1
Petroleum	8,735,862	7,678,995	8,051,782	8,223,824	9,466,990	8,502,550	8,826,721	90.0	77.4
Natural Gas	0	0	0	0	0	0	125,081	.0	1.1
Other Gases	16,163	69,307	42,173	37,855	40,816	40,251	40,794	.2	.4
Hydroelectric	79,516	97,810	103,458	100,750	95,068	90,505	93,901	.8	.8
Other Renewables	868,830	894,548	817,405	665,900	514,399	696,766	717,863	9.0	6.3
Other	0	2,119	0	0	0	2,162	2,231	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Hawaii							
Coal (cents per million Btu)	0.0	0.0	0.0	0.0	W	W	W
Average heat value (Btu per pound).....	0	0	0	0	11,454	11,422	11,097
Average sulfur Content (percent).....	.0	.0	.0	.0	.3	.4	.5
Petroleum (cents per million Btu).....	415.2	298.0	503.9	490.3	W	W	W
Average heat value (Btu per gallon).....	148,883	149,392	149,704	146,571	142,633	140,581	140,629
Average sulfur Content (percent).....	.5	.4	.4	.5	.4	.4	.4

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Hawaii							
Sulfur Dioxide							
Coal	*	4	2	7	6	1	1
Petroleum.....	35	25	18	20	18	22	23
Natural Gas	0	0	0	0	0	0	0
Other.....	*	*	*	*	*	*	*
Total.....	35	29	19	27	24	23	24
Nitrogen Oxide							
Coal	*	6	4	4	3	2	2
Petroleum.....	14	9	9	10	10	10	10
Gas.....	0	0	0	0	0	0	0
Other.....	1	1	1	1	1	2	1
Total.....	15	16	14	14	14	13	13
Carbon Dioxide							
Coal	6	1,599	1,621	1,645	1,596	1,699	1,693
Petroleum.....	8,588	6,424	6,599	6,526	7,350	6,633	6,936
Gas.....	0	0	0	0	0	0	67
Geothermal.....	0	6	7	5	2	5	5
Other.....	66	74	59	99	183	209	210
Total.....	8,660	8,103	8,286	8,275	9,130	8,545	8,912

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Hawaii									
Retail Sales (thousand megawatthours)									
Residential.....	2,324	2,606	2,765	2,802	2,898	3,028	3,162	28.0	29.5
Commercial.....	2,194	2,721	3,036	3,129	3,168	3,517	3,632	26.4	33.8
Industrial.....	3,734	3,803	3,834	3,790	3,770	3,846	3,937	44.9	36.7
Other.....	58	57	56	63	55	NA	NA	.7	NA
Total.....	8,311	9,188	9,691	9,785	9,892	10,391	10,732	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	238	347	454	458	453	507	571	31.7	33.9
Commercial.....	223	331	450	464	447	528	588	29.7	34.9
Industrial.....	283	352	448	443	415	469	526	37.7	31.2
Other.....	5	7	8	11	9	NA	NA	.7	NA
Total.....	750	1,038	1,360	1,374	1,325	1,504	1,685	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	10.26	13.32	16.41	16.34	15.63	16.73	18.06	NA	NA
Commercial.....	10.18	12.16	14.81	14.81	14.11	15.02	16.19	NA	NA
Industrial.....	7.57	9.27	11.69	11.68	11.02	12.20	13.35	NA	NA
Other.....	9.40	12.11	14.76	16.81	16.85	NA	NA	NA	NA
Total.....	9.02	11.29	14.03	14.05	13.39	14.47	15.70	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Hawaii								
Number of Entities.....	3	NA	NA	1	3	NA	NA	7
Number of Retail Customers.....	419,228	NA	NA	32,949	14	NA	NA	452,191
Retail Sales (thousand megawatthours).....	10,063	NA	NA	447	221	NA	NA	10,732
Percentage of Retail Sales.....	93.77	NA	NA	4.16	2.06	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,542	NA	NA	117	26	NA	NA	1,685
Percentage of Revenue.....	91.52	NA	NA	6.96	1.52	NA	NA	100.00
Average Retail Price (cents/kWh).....	15.32	NA	NA	26.22	11.57	NA	NA	15.70

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Idaho		
NERC Region(s).....		WECC
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	2,986	45
Electric Utilities	2,394	38
Independent Power Producers & Combined Heat and Power	591	44
Net Generation (megawatthours).....	10,863,039	45
Electric Utilities	7,765,655	37
Independent Power Producers & Combined Heat and Power	3,097,384	40
Emissions (thousand metric tons)		
Sulfur Dioxide	7	46
Nitrogen Oxide.....	3	48
Carbon Dioxide.....	1,292	49
Sulfur Dioxide (lbs/MWh).....	1.4	44
Nitrogen Oxide (lbs/MWh).....	.6	46
Carbon Dioxide (lbs/MWh).....	262	50
Total Retail Sales (megawatthours).....	21,808,674	38
Full Service Provider Sales (megawatthours).....	21,767,415	38
Deregulated Sales (megawatthours).....	41,259	19
Direct Use (megawatthours).....	711,211	31
Average Retail Price (cents/kWh).....	4.97	50

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Idaho			
1. Brownlee.....	Hydroelectric	Idaho Power Co	562
2. Dworshak.....	Hydroelectric	USCE-North Pacific Division	400
3. Cabinet Gorge	Hydroelectric	Avista Corporation	276
4. Rathdrum Power LLC.....	Gas	Rathdrum Operating Services Co., Inc.	248
5. Palisades.....	Hydroelectric	U S Bureau of Reclamation	176
6. Rathdrum	Gas	Avista Corporation	136
7. Lucky Peak Power Plant Project.....	Hydroelectric	Boise-Kuna Irrigation District	96
8. C J Strike.....	Hydroelectric	Idaho Power Co	89
9. Bliss	Hydroelectric	Idaho Power Co	80
10. Evander Andrews Power Complex.....	Gas	Idaho Power Co	76

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Idaho						
1. Idaho Power Co.....	Investor-Owned	12,574,544	4,389,994	3,411,043	4,773,507	0
2. PacifiCorp	Investor-Owned	3,262,417	611,169	371,308	2,279,940	0
3. Avista Corporation.....	Investor-Owned	3,239,464	1,054,446	924,071	1,260,947	0
4. Idaho Falls City of.....	Public	619,763	269,011	292,773	57,979	0
5. Kootenai Electric Coop Inc.....	Cooperative	333,311	228,475	89,084	15,752	0
Total Sales, Top Five Providers.....		20,029,499	6,553,095	5,088,279	8,388,125	0
Percent of Total State Sales		92	90	93	93	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Idaho									
Electric Utilities	2,282	2,559	2,585	2,658	2,690	2,439	2,394	87.9	80.2
Petroleum.....	56	6	6	5	5	5	5	2.2	.2
Natural Gas.....	0	136	136	212	212	212	212	.0	7.1
Hydroelectric	2,227	2,418	2,444	2,441	2,472	2,221	2,176	85.8	72.9
Independent Power Producers and Combined									
Heat and Power	314	415	432	577	575	563	591	12.1	19.8
Coal.....	12	18	18	15	16	17	17	.5	.6
Natural Gas.....	0	0	24	269	269	269	269	.0	9.0
Hydroelectric	218	251	251	197	193	193	214	8.4	7.2
Other Renewables.....	69	131	125	82	82	70	78	2.7	2.6
Other	15	15	15	15	15	15	15	.6	.5
Total Electric Industry	2,596	2,974	3,017	3,236	3,264	3,002	2,986	100.0	100.0
Coal.....	12	18	18	15	16	17	17	.5	.6
Petroleum.....	56	6	6	5	5	5	5	2.2	.2
Natural Gas.....	0	136	160	481	481	481	481	.0	16.1
Hydroelectric	2,444	2,669	2,695	2,638	2,665	2,414	2,391	94.1	80.1
Other Renewables.....	69	130	125	81	81	70	77	2.7	2.6
Other	15	15	15	15	15	15	15	.6	.5

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Idaho									
Electric Utilities	8,617,977	10,062,854	10,114,257	6,666,589	8,164,140	7,732,812	7,765,655	88.9	71.5
Petroleum.....	615	311	2,792	3,723	65	116	136	*	*
Natural Gas.....	0	0	0	0	76,168	61,229	27,775	.0	.3
Hydroelectric.....	8,617,362	10,062,543	10,111,465	6,662,866	8,087,907	7,671,467	7,737,744	88.9	71.2
Independent Power Producers and Combined									
Heat and Power	1,073,498	1,781,751	1,796,185	2,680,352	1,622,793	2,690,124	3,097,384	11.1	28.5
Coal.....	44,371	47,527	70,675	72,284	90,673	90,290	100,100	.5	.9
Petroleum.....	379	253	4,156	0	0	0	0	*	.0
Natural Gas.....	55,714	167,292	299,053	1,405,286	252,820	1,313,591	1,682,517	.6	15.5
Hydroelectric.....	497,628	926,791	855,230	560,260	681,414	682,567	723,911	5.1	6.7
Other Renewables.....	410,203	549,608	483,258	533,335	508,303	540,953	573,736	4.2	5.3
Other.....	65,203	90,280	83,813	109,187	89,583	62,722	17,119	.7	.2
Total Electric Industry	9,691,475	11,844,605	11,910,442	9,346,941	9,786,933	10,422,935	10,863,039	100.0	100.0
Coal.....	44,371	47,527	70,675	72,284	90,673	90,290	100,100	.5	.9
Petroleum.....	994	564	6,948	3,723	65	116	136	*	*
Natural Gas.....	55,714	167,292	299,053	1,405,286	328,988	1,374,820	1,710,292	.6	15.7
Hydroelectric.....	9,114,990	10,989,334	10,966,695	7,223,126	8,769,321	8,354,034	8,461,655	94.1	77.9
Other Renewables.....	410,203	549,608	483,258	533,335	508,303	540,953	573,736	4.2	5.3
Other.....	65,203	90,280	83,813	109,187	89,583	62,722	17,119	.7	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Idaho							
Natural Gas (cents per million Btu).....	0.0	0.0	0.0	0.0	W	W	W
Average heat value (Btu per cubic foot).....	0	0	0	0	1,003	1,018	1,024

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Idaho							
Sulfur Dioxide							
Coal	6	5	6	4	8	3	4
Petroleum.....	*	0	*	0	0	0	0
Natural Gas	0	0	0	0	0	0	0
Other.....	3	3	3	3	3	3	3
Total.....	9	8	9	6	11	6	7
Nitrogen Oxide							
Coal	2	1	2	1	2	1	2
Petroleum.....	0	0	*	0	0	0	0
Gas.....	*	1	1	1	1	*	*
Other.....	1	1	1	1	1	1	1
Total.....	3	3	3	2	3	3	3
Carbon Dioxide							
Coal	312	321	334	266	460	498	481
Petroleum.....	3	1	18	3	*	*	*
Gas.....	170	377	468	824	307	605	812
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	486	699	821	1,093	767	1,103	1,292

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Idaho									
Retail Sales (thousand megawatthours)									
Residential.....	5,626	6,193	7,006	6,906	7,056	7,090	7,314	31.3	33.5
Commercial	4,894	5,291	7,068	6,543	6,963	5,466	5,484	27.2	25.1
Industrial.....	7,165	7,843	8,408	7,305	6,352	8,663	9,011	39.8	41.3
Other	318	293	352	342	329	NA	NA	1.8	NA
Total.....	18,003	19,620	22,834	21,096	20,700	21,219	21,809	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	274	330	377	415	465	443	446	40.0	41.1
Commercial	208	237	300	336	398	304	294	30.4	27.1
Industrial.....	188	220	262	271	276	360	344	27.4	31.7
Other.....	15	15	15	16	17	NA	NA	2.2	NA
Total.....	685	802	953	1,037	1,156	1,107	1,085	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	4.87	5.33	5.39	6.01	6.59	6.24	6.10	NA	NA
Commercial	4.25	4.48	4.24	5.13	5.71	5.56	5.37	NA	NA
Industrial.....	2.62	2.81	3.11	3.71	4.34	4.16	3.82	NA	NA
Other.....	4.65	5.13	4.13	4.66	5.18	NA	NA	NA	NA
Total.....	3.80	4.09	4.17	4.92	5.58	5.22	4.97	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	3	11	NA	16	NA	NA	1	31
Number of Retail Customers.....	589,163	39,706	NA	72,270	NA	1	NA	701,140
Retail Sales (thousand megawatthours)	19,076	1,004	NA	1,687	NA	41	NA	21,809
Percentage of Retail Sales	87.47	4.61	NA	7.73	NA	.19	NA	100.00
Revenue from Retail Sales (million dollars)	915	66	NA	104	NA	NA	*	1,085
Percentage of Revenue.....	84.33	6.04	NA	9.63	NA	NA	*	100.00
Average Retail Price (cents/kWh).....	4.80	6.52	NA	6.19	NA	NA	.01	4.97

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Illinois		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	42,032	5
Electric Utilities	2,994	36
Independent Power Producers & Combined Heat and Power	39,037	3
Net Generation (megawatthours).....	191,957,778	5
Electric Utilities	19,184,751	36
Independent Power Producers & Combined Heat and Power	172,773,027	3
Emissions (thousand metric tons)		
Sulfur Dioxide	385	11
Nitrogen Oxide	143	8
Carbon Dioxide	100,325	6
Sulfur Dioxide (lbs/MWh).....	4.4	27
Nitrogen Oxide (lbs/MWh).....	1.6	37
Carbon Dioxide (lbs/MWh).....	1,152	36
Total Retail Sales (megawatthours).....	139,253,956	7
Full Service Provider Sales (megawatthours).....	112,186,918	8
Deregulated Sales (megawatthours).....	27,067,038	4
Direct Use (megawatthours).....	4,280,370	10
Average Retail Price (cents/kWh).....	6.80	28

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Illinois			
1. Braidwood Generation Station.....	Nuclear	Exelon Generation Co LLC	2,330
2. Byron Generating Station	Nuclear	Exelon Generation Co LLC	2,300
3. LaSalle Generating Station	Nuclear	Exelon Generation Co LLC	2,238
4. Baldwin Energy Complex.....	Petroleum,Other,Coal	Dynegy Midwest Generation Inc	1,761
5. Dresden Generating Station	Nuclear	Exelon Generation Co LLC	1,734
6. Quad Cities Generating Station	Nuclear	Exelon Generation Co LLC	1,734
7. Powerton.....	Gas,Coal	Midwest Generations EME LLC	1,538
8. Elwood Energy LLC	Gas	Dominion Elwood Services Co	1,350
9. Kincaid Generation LLC.....	Gas,Coal	Dominion Energy Services Co	1,168
10. Kendall County Generation Facility	Gas	LSP-Kendall Energy LLC	1,140

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Illinois						
1. Commonwealth Edison Co.....	Investor-Owned	66,418,606	26,463,440	24,429,450	15,085,364	440,352
2. AmerenIP	Investor-Owned	15,155,999	5,350,137	4,844,352	4,961,456	54
3. Constellation NewEnergy, Inc	Power Marketer	8,572,079	0	2,054,876	6,517,203	0
4. Ameren Energy Marketing Co.....	Power Marketer	7,121,941	0	1,870,643	5,251,298	0
5. Central Illinois Pub Serv Co.....	Power Marketer	7,071,764	2,977,527	2,831,143	1,263,094	0
Total Sales, Top Five Providers.....		104,340,389	34,791,104	36,030,464	33,078,415	440,406
Percent of Total State Sales		75	80	76	69	99

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Illinois									
Electric Utilities	32,602	33,139	17,495	4,420	4,150	3,007	2,994	98.3	7.1
Coal.....	14,912	14,916	5,473	2,862	2,862	1,866	1,859	45.0	4.4
Petroleum.....	3,704	2,112	591	427	297	331	314	11.2	.7
Natural Gas.....	396	2,763	555	403	387	127	185	1.2	.4
Dual Fired.....	973	733	949	716	593	671	625	2.9	1.5
Nuclear.....	12,609	12,609	9,915	0	0	0	0	38.0	.0
Hydroelectric	10	6	12	12	12	12	12	*	*
Independent Power Producers and Combined									
Heat and Power.....	548	693	18,849	35,648	40,558	42,535	39,037	1.7	92.9
Coal.....	266	352	10,754	12,937	12,792	13,795	13,832	.8	32.9
Petroleum.....	9	2	528	998	998	915	739	*	1.8
Natural Gas.....	91	187	2,906	7,119	11,492	12,163	11,760	.3	28.0
Other Gases	45	50	52	33	40	40	48	.1	.1
Dual Fired.....	103	53	3,531	3,411	3,763	3,923	1,056	.3	2.5
Nuclear.....	0	0	930	10,963	11,312	11,465	11,379	.0	27.1
Hydroelectric	17	18	21	23	9	21	21	.1	*
Other Renewables.....	17	31	127	166	154	214	205	.1	.5
Total Electric Industry	33,151	33,832	36,344	40,068	44,709	45,541	42,032	100.0	100.0
Coal.....	15,178	15,268	16,227	15,799	15,654	15,661	15,691	45.8	37.3
Petroleum.....	3,713	2,114	1,119	1,425	1,295	1,246	1,053	11.2	2.5
Natural Gas.....	486	2,950	3,461	7,521	11,879	12,289	11,944	1.5	28.4
Other Gases	45	50	52	33	40	40	47	.1	.1
Dual Fired.....	1,076	787	4,481	4,127	4,356	4,594	1,681	3.2	4.0
Nuclear.....	12,609	12,609	10,845	10,963	11,312	11,465	11,379	38.0	27.1
Hydroelectric	26	24	33	35	21	33	33	.1	.1
Other Renewables.....	18	31	126	165	154	213	204	.1	.5

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Illinois									
Electric Utilities	126,977,389	145,165,161	113,565,741	29,835,014	17,149,913	9,563,746	19,184,751	98.1	10.0
Coal.....	53,865,768	62,735,936	30,522,951	29,124,508	16,897,445	9,390,702	18,923,288	41.6	9.9
Petroleum.....	422,553	888,462	141,130	99,445	34,464	48,792	120,725	.3	.1
Natural Gas.....	740,926	2,944,310	215,826	546,305	161,134	53,174	62,240	.6	*
Nuclear.....	71,887,302	78,480,848	82,523,594	0	0	0	0	55.6	.0
Hydroelectric.....	60,840	47,699	60,354	56,802	56,870	71,078	72,165	*	*
Other Renewables.....	0	67,906	101,886	7,954	0	0	6,333	.0	*
Independent Power Producers and Combined									
Heat and Power	2,415,082	3,492,770	64,930,340	149,414,271	170,904,536	179,491,514	172,773,028	1.9	90.0
Coal.....	1,100,250	1,679,894	51,799,881	50,426,129	69,787,902	78,590,647	75,462,185	.8	39.3
Petroleum.....	16,031	34,042	491,890	1,406,560	188,219	1,072,125	629,926	*	.3
Natural Gas.....	678,965	1,030,068	4,449,737	4,059,988	8,917,601	3,849,288	3,314,531	.5	1.7
Other Gases.....	381,562	396,906	384,398	355,776	232,850	203,627	290,522	.3	.2
Nuclear.....	0	0	6,914,455	92,358,477	90,860,108	94,733,036	92,047,323	.0	48.0
Hydroelectric.....	83,086	76,237	83,474	87,225	71,952	67,422	81,364	.1	*
Other Renewables.....	155,188	275,623	806,505	720,116	845,361	974,495	946,935	.1	.5
Other.....	0	0	0	0	543	874	241	.0	.0
Total Electric Industry									
129,392,471	148,657,931	178,496,081	179,249,285	188,054,449	189,055,260	191,957,778	100.0	100.0	
Coal.....	54,966,018	64,415,830	82,322,832	79,550,637	86,685,347	87,981,349	94,385,473	42.5	49.2
Petroleum.....	438,584	922,504	633,020	1,506,005	222,683	1,120,917	750,651	.3	.4
Natural Gas.....	1,419,891	3,974,378	4,665,563	4,606,293	9,078,735	3,902,462	3,376,771	1.1	1.8
Other Gases.....	381,562	396,906	384,398	355,776	232,850	203,627	290,522	.3	.2
Nuclear.....	71,887,302	78,480,848	89,438,049	92,358,477	90,860,108	94,733,036	92,047,323	55.6	48.0
Hydroelectric.....	143,926	123,936	143,828	144,027	128,822	138,500	153,529	.1	.1
Other Renewables.....	155,188	343,529	908,391	728,070	845,361	974,495	953,268	.1	.5
Other.....	0	0	0	0	543	874	241	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Illinois							
Coal (cents per million Btu).....	175.1	163.4	115.1	119.2	118.5	115.9	114.9
Average heat value (Btu per pound).....	10,789	9,970	9,690	9,558	9,151	9,176	9,120
Average sulfur Content (percent).....	2.1	1.1	1.1	1.1	.7	.7	.6
Petroleum (cents per million Btu).....	394.7	232.0	324.1	578.7	524.5	539.9	463.8
Average heat value (Btu per gallon).....	148,831	124,130	96,875	153,333	146,974	147,876	143,595
Average sulfur Content (percent).....	.6	1.8	2.2	.3	.1	.5	1.9
Natural Gas (cents per million Btu).....	267.0	168.0	469.1	368.5	342.7	567.4	637.6
Average heat value (Btu per cubic foot).....	1,021	1,016	1,031	1,020	988	1,016	1,013

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Illinois							
Sulfur Dioxide							
Coal	845	599	419	475	466	367	382
Petroleum.....	4	13	17	6	1	4	2
Natural Gas	*	*	*	*	*	*	*
Other.....	0	*	*	*	1	1	1
Total.....	849	612	437	481	468	372	385
Nitrogen Oxide							
Coal	330	373	226	200	178	139	138
Petroleum.....	1	2	2	2	*	2	1
Gas.....	4	7	7	5	6	3	3
Other.....	1	2	4	4	4	1	1
Total.....	336	384	238	211	189	144	143
Carbon Dioxide							
Coal	57,322	68,879	88,483	87,739	89,990	90,896	96,960
Petroleum.....	1,082	1,095	981	1,517	211	1,110	683
Gas.....	1,594	3,604	4,176	3,159	5,280	2,775	2,549
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	129	160	134
Total.....	59,998	73,579	93,640	92,415	95,610	94,941	100,325

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Illinois									
Retail Sales (thousand megawatthours)									
Residential.....	32,871	38,386	40,146	41,820	45,030	43,161	43,443	29.5	31.2
Commercial	31,734	37,217	43,855	43,135	44,244	49,561	47,358	28.4	34.0
Industrial	39,299	42,251	40,939	40,780	39,288	43,042	48,008	35.2	34.5
Other	7,672	8,377	9,756	10,298	9,886	NA	NA	6.9	NA
Transportation.....	NA	NA	NA	NA	NA	484	445	NA	.3
Total.....	111,577	126,231	134,697	136,034	138,447	136,248	139,254	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	3,260	3,982	3,546	3,645	3,778	3,616	3,638	39.0	38.4
Commercial	2,465	2,933	3,207	3,194	3,326	3,618	3,570	29.5	37.7
Industrial	2,122	2,227	2,043	1,896	1,920	2,092	2,232	25.4	23.6
Other	514	570	549	656	581	NA	NA	6.1	NA
Transportation.....	NA	NA	NA	NA	NA	28	25	NA	.3
Total.....	8,361	9,712	9,345	9,391	9,605	9,353	9,465	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.92	10.37	8.83	8.71	8.39	8.38	8.38	NA	NA
Commercial	7.77	7.88	7.31	7.40	7.52	7.30	7.54	NA	NA
Industrial	5.40	5.27	4.99	4.65	4.89	4.86	4.65	NA	NA
Other	6.70	6.80	5.63	6.37	5.88	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	5.87	5.69	NA	NA
Total.....	7.49	7.69	6.94	6.90	6.94	6.86	6.80	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	10	41	NA	27	1	11	4	94
Number of Retail Customers.....	4,956,913	256,841	NA	257,045	1	13,432	NA	5,484,232
Retail Sales (thousand megawatthours)	100,398	6,558	NA	4,715	516	27,067	NA	139,254
Percentage of Retail Sales	72.10	4.71	NA	3.39	.37	19.44	NA	100.00
Revenue from Retail Sales (million dollars)	7,160	430	NA	424	19	1,052	380	9,465
Percentage of Revenue.....	75.65	4.54	NA	4.48	.20	11.11	4.02	100.00
Average Retail Price (cents/kWh).....	7.13	6.56	NA	8.99	3.61	3.89	1.40	6.80

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Indiana		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	26,734	13
Electric Utilities	21,126	10
Independent Power Producers & Combined Heat and Power	5,608	20
Net Generation (megawatthours).....	127,770,396	9
Electric Utilities	114,690,471	6
Independent Power Producers & Combined Heat and Power	13,079,925	21
Emissions (thousand metric tons)		
Sulfur Dioxide	797	3
Nitrogen Oxide.....	215	4
Carbon Dioxide.....	118,901	5
Sulfur Dioxide (lbs/MWh).....	13.8	2
Nitrogen Oxide (lbs/MWh).....	3.7	13
Carbon Dioxide (lbs/MWh).....	2,052	5
Total Retail Sales (megawatthours).....	103,094,263	12
Full Service Provider Sales (megawatthours).....	103,094,263	10
Direct Use (megawatthours).....	4,760,620	7
Average Retail Price (cents/kWh).....	5.58	47

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Indiana			
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	1,730
5. Clifty Creek.....	Petroleum,Coal	Indiana-Kentucky Electric Corp	1,196
6. Cayuga	Petroleum,Gas,Coal	PSI Energy Inc	1,104
7. Harding Street	Petroleum,Gas,Coal	Indianapolis Power & Light Co	1,102
8. PSEG Lawrenceburg Energy Facility.....	Gas	PSEG Lawrenceburg Engy Co LLC	1,094
9. Merom	Petroleum,Coal	Hoosier Energy R E C Inc	1,000
10. Tanners Creek.....	Petroleum,Coal	Indiana Michigan Power Co	980

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Indiana						
1. PSI Energy Inc.....	Investor-Owned	27,737,055	8,451,630	7,833,102	11,452,323	0
2. Northern Indiana Pub Serv Co.....	Investor-Owned	16,191,338	3,104,271	3,761,025	9,309,406	16,636
3. Indiana Michigan Power Co	Investor-Owned	15,637,703	4,378,347	4,223,514	7,035,842	0
4. Indianapolis Power & Light Co.....	Investor-Owned	14,590,398	4,984,432	2,034,925	7,571,041	0
5. Southern Indiana Gas & Elec Co	Investor-Owned	5,560,235	1,501,707	1,514,994	2,543,534	0
Total Sales, Top Five Providers.....		79,716,729	22,420,387	19,367,560	37,912,146	16,636
Percent of Total State Sales		77	72	84	77	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Indiana									
Electric Utilities	20,588	20,712	20,554	20,616	20,802	21,016	21,126	96.4	79.0
Coal.....	19,556	18,844	18,734	18,734	18,530	18,400	18,426	91.6	68.9
Petroleum.....	479	486	471	471	473	474	474	2.2	1.8
Natural Gas.....	171	297	494	557	1,051	1,392	1,531	.8	5.7
Other Gases.....	0	228	0	0	0	0	0	.0	.0
Dual Fired.....	316	790	796	796	690	690	635	1.5	2.4
Hydroelectric.....	66	68	59	58	59	59	59	.3	.2
Independent Power Producers and Combined									
Heat and Power	768	812	3,378	3,553	4,450	4,626	5,608	3.6	21.0
Coal.....	206	237	656	723	1,410	1,416	1,290	1.0	4.8
Petroleum.....	9	11	21	9	9	9	11	*	*
Natural Gas.....	144	127	1,797	1,960	2,302	2,484	3,480	.7	13.0
Other Gases.....	307	318	639	589	525	512	624	1.4	2.3
Dual Fired.....	96	108	232	251	185	185	184	.4	.7
Other Renewables.....	6	14	32	21	21	19	19	*	.1
Total Electric Industry	21,356	21,524	23,932	24,168	25,252	25,641	26,734	100.0	100.0
Coal.....	19,763	19,080	19,391	19,457	19,940	19,816	19,716	92.5	73.7
Petroleum.....	487	496	492	481	482	483	485	2.3	1.8
Natural Gas.....	315	423	2,291	2,516	3,352	3,876	5,012	1.5	18.7
Other Gases.....	307	546	639	589	525	512	624	1.4	2.3
Dual Fired.....	412	897	1,028	1,047	875	875	819	1.9	3.1
Hydroelectric.....	66	68	59	58	59	59	59	.3	.2
Other Renewables.....	6	14	32	21	21	19	19	*	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Indiana									
Electric Utilities	97,738,497	105,188,892	119,721,399	114,666,355	112,029,989	112,395,725	114,690,471	96.4	89.8
Coal.....	96,012,872	103,774,522	117,619,535	113,135,350	109,441,044	109,839,659	112,899,892	94.7	88.4
Petroleum.....	673,984	213,051	845,481	371,623	470,976	407,648	393,135	.7	.3
Natural Gas.....	610,620	734,058	668,107	588,690	1,706,699	1,724,465	953,723	.6	.7
Hydroelectric.....	441,021	467,261	588,276	570,692	411,270	423,953	443,721	.4	.3
Independent Power Producers and Combined									
Heat and Power	3,678,619	3,967,954	8,098,117	7,903,318	13,578,150	12,492,493	13,079,926	3.6	10.2
Coal.....	912,682	913,544	3,858,349	2,931,162	8,218,656	7,916,625	7,741,075	.9	6.1
Petroleum.....	194,054	129,570	124,040	119,859	146,156	47,639	57,026	.2	*
Natural Gas.....	860,217	719,505	1,386,509	1,742,970	2,075,752	1,324,970	1,489,672	.8	1.2
Other Gases.....	1,674,549	2,120,995	2,599,337	2,978,809	3,005,998	2,592,257	3,115,085	1.7	2.4
Other Renewables.....	37,117	84,340	129,882	130,518	131,588	134,030	155,390	*	.1
Other.....	0	0	0	0	0	476,972	521,677	.0	.4
Total Electric Industry									
Coal	101,417,116	109,156,846	127,819,516	122,569,673	125,608,140	124,888,217	127,770,396	100.0	100.0
Coal.....	96,925,554	104,688,066	121,477,884	116,066,512	117,659,700	117,756,284	120,640,967	95.6	94.4
Petroleum.....	868,038	342,621	969,521	491,482	617,132	455,287	450,161	.9	.4
Natural Gas.....	1,470,837	1,453,563	2,054,616	2,331,660	3,782,451	3,049,435	2,443,395	1.4	1.9
Other Gases.....	1,674,549	2,120,995	2,599,337	2,978,809	3,005,998	2,592,257	3,115,085	1.7	2.4
Hydroelectric.....	441,021	467,261	588,276	570,692	411,270	423,953	443,721	.4	.3
Other Renewables.....	37,117	84,340	129,882	130,518	131,588	134,030	155,390	*	.1
Other.....	0	0	0	0	0	476,972	521,677	.0	.4

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Indiana							
Coal (cents per million Btu).....	136.2	125.5	108.0	113.7	W	W	W
Average heat value (Btu per pound).....	10,562	10,338	10,604	10,544	10,326	10,550	10,601
Average sulfur Content (percent).....	2.1	1.6	1.5	1.4	1.5	1.5	1.5
Petroleum (cents per million Btu).....	191.4	297.5	244.8	220.1	W	W	W
Average heat value (Btu per gallon).....	89,742	115,914	90,072	149,929	139,717	138,660	135,267
Average sulfur Content (percent).....	4.1	1.5	3.0	3.1	2.0	2.3	2.3
Natural Gas (cents per million Btu).....	258.0	244.1	445.3	507.0	323.5	615.9	620.5
Average heat value (Btu per cubic foot).....	1,002	1,021	1,023	1,052	1,023	1,014	1,011

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Indiana							
Sulfur Dioxide							
Coal	1,273	833	809	736	718	741	795
Petroleum.....	3	*	3	2	*	1	*
Natural Gas	*	*	*	*	*	*	*
Other.....	*	*	*	*	*	1	2
Total.....	1,277	834	811	738	718	744	797
Nitrogen Oxide							
Coal	484	487	309	290	258	239	208
Petroleum.....	1	1	1	1	*	*	*
Gas.....	4	3	22	21	19	3	1
Other.....	1	1	1	1	1	6	6
Total.....	490	492	332	313	278	248	215
Carbon Dioxide							
Coal	93,509	102,272	118,292	112,985	111,829	114,014	116,454
Petroleum.....	753	569	1,226	670	761	497	483
Gas.....	1,863	1,568	2,550	2,430	2,340	1,772	1,659
Geothermal.....	0	0	0	0	0	0	0
Other.....	83	85	80	83	294	307	305
Total.....	96,208	104,494	122,148	116,168	115,225	116,590	118,901

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Indiana									
Retail Sales (thousand megawatthours)									
Residential.....	22,111	26,560	28,649	29,420	31,568	30,726	31,192	29.9	30.3
Commercial	15,502	18,123	20,468	25,551	21,790	22,441	22,957	21.0	22.3
Industrial.....	35,743	41,777	48,040	42,080	47,481	47,284	48,928	48.3	47.5
Other	626	546	618	684	589	NA	NA	.8	NA
Transportation.....	NA	NA	NA	NA	NA	16	17	NA	.0
Total.....	73,982	87,006	97,775	97,734	101,429	100,468	103,094	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,519	1,790	1,967	2,037	2,183	2,162	2,277	38.3	39.6
Commercial	938	1,072	1,214	1,351	1,303	1,374	1,448	23.7	25.2
Industrial.....	1,456	1,645	1,829	1,728	1,877	1,855	2,022	36.7	35.2
Other	51	50	58	62	57	NA	NA	1.3	NA
Transportation.....	NA	NA	NA	NA	NA	1	1	NA	.0
Total.....	3,964	4,557	5,068	5,177	5,420	5,393	5,749	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.87	6.74	6.86	6.92	6.91	7.04	7.30	NA	NA
Commercial	6.05	5.92	5.93	5.29	5.98	6.12	6.31	NA	NA
Industrial.....	4.07	3.94	3.81	4.10	3.95	3.92	4.13	NA	NA
Other	8.08	9.11	9.37	9.06	9.75	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	8.36	8.76	NA	NA
Total.....	5.36	5.24	5.18	5.30	5.34	5.37	5.58	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Indiana								
Number of Entities.....	6	72	NA	41	NA	NA	NA	119
Number of Retail Customers.....	2,236,546	256,381	NA	502,723	NA	NA	NA	2,995,650
Retail Sales (thousand megawatthours)	84,374	7,718	NA	11,002	NA	NA	NA	103,094
Percentage of Retail Sales	81.84	7.49	NA	10.67	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	4,569	432	NA	749	NA	NA	NA	5,749
Percentage of Revenue.....	79.47	7.51	NA	13.02	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.41	5.59	NA	6.80	NA	NA	NA	5.58

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Iowa		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	10,873	32
Electric Utilities	9,895	24
Independent Power Producers & Combined Heat and Power	977	39
Net Generation (megawatthours).....	43,248,189	34
Electric Utilities	40,578,049	26
Independent Power Producers & Combined Heat and Power	2,670,140	41
Emissions (thousand metric tons)		
Sulfur Dioxide	135	21
Nitrogen Oxide	79	20
Carbon Dioxide	40,043	23
Sulfur Dioxide (lbs/MWh).....	6.9	14
Nitrogen Oxide (lbs/MWh).....	4.0	6
Carbon Dioxide (lbs/MWh).....	2,041	6
Total Retail Sales (megawatthours).....	40,902,773	31
Full Service Provider Sales (megawatthours).....	40,902,773	31
Direct Use (megawatthours).....	1,352,242	27
Average Retail Price (cents/kWh).....	6.40	34

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Iowa			
1. George Neal North.....	Gas,Coal	MidAmerican Energy Co	950
2. Council Bluffs	Gas,Petroleum,Coal	MidAmerican Energy Co	823
3. Ottumwa	Petroleum,Coal	Interstate Power and Light Co	717
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	563
7. Emery Station.....	Petroleum,Gas	Interstate Power and Light Co	557
8. Greater Des Moines	Gas	MidAmerican Energy Co	491
9. Lansing	Petroleum,Coal	Interstate Power and Light Co	293
10. Burlington	Gas,Coal	Interstate Power and Light Co	283

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Iowa						
1. MidAmerican Energy Co	Investor-Owned	15,857,878	4,696,080	4,672,762	6,489,036	0
2. Interstate Power and Light Co	Investor-Owned	14,245,634	3,598,684	3,291,809	7,355,141	0
3. Eastern Iowa Light & Power Coop	Cooperative	1,279,093	259,506	34,800	984,787	0
4. Muscatine City of	Public	848,753	93,103	174,677	580,973	0
5. Ames City of	Public	591,983	143,931	305,986	142,066	0
Total Sales, Top Five Providers.....		32,823,341	8,791,304	8,480,034	15,552,003	0
Percent of Total State Sales		80	70	78	89	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Iowa									
Electric Utilities	7,952	8,237	8,508	8,352	8,407	9,093	9,895	95.7	91.0
Coal.....	5,860	5,995	5,920	5,668	5,620	5,666	5,741	70.6	52.8
Petroleum.....	399	491	799	815	846	779	776	4.8	7.1
Natural Gas.....	159	117	128	128	104	640	853	1.9	7.8
Dual Fired.....	879	972	1,006	985	1,036	1,202	1,660	10.6	15.3
Nuclear.....	530	528	520	520	566	562	563	6.4	5.2
Hydroelectric	124	134	131	129	129	136	138	1.5	1.3
Other Renewables.....	0	0	4	107	107	107	165	.0	1.5
Independent Power Producers and Combined									
Heat and Power.....	354	356	587	830	930	980	977	4.3	9.0
Coal.....	232	288	298	420	420	420	417	2.8	3.8
Petroleum.....	55	53	79	81	82	89	89	.7	.8
Natural Gas.....	0	0	0	3	4	5	1	.0	*
Dual Fired.....	61	3	3	0	0	0	4	.7	*
Hydroelectric	5	5	5	2	2	2	2	.1	*
Other Renewables.....	0	7	202	324	422	466	466	.0	4.3
Total Electric Industry	8,306	8,593	9,095	9,183	9,338	10,074	10,873	100.0	100.0
Coal.....	6,092	6,283	6,218	6,088	6,039	6,086	6,157	73.3	56.6
Petroleum.....	454	544	877	897	929	868	865	5.5	8.0
Natural Gas.....	159	118	128	131	108	645	854	1.9	7.9
Dual Fired.....	940	975	1,009	985	1,036	1,202	1,663	11.3	15.3
Nuclear.....	530	528	520	520	566	562	563	6.4	5.2
Hydroelectric	130	139	136	131	131	138	140	1.6	1.3
Other Renewables.....	0	7	206	431	529	573	630	.0	5.8

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Iowa									
Electric Utilities	29,047,940	33,501,928	39,634,091	38,755,520	40,051,665	39,485,141	40,578,049	96.7	93.8
Coal.....	24,879,567	28,426,101	33,851,496	33,471,603	34,033,119	34,288,694	33,757,265	82.8	78.1
Petroleum.....	51,315	57,750	95,631	94,796	55,552	91,173	99,255	.2	.2
Natural Gas.....	231,263	277,324	323,197	454,476	406,796	279,206	814,295	.8	1.9
Nuclear.....	3,011,572	3,729,970	4,452,884	3,852,722	4,573,958	3,987,657	4,928,948	10.0	11.4
Hydroelectric.....	856,848	991,088	891,344	830,258	936,688	780,322	936,999	2.9	2.2
Other Renewables.....	17,375	19,695	19,539	51,665	45,552	58,089	41,287	.1	.1
Independent Power Producers and Combined									
Heat and Power	996,566	1,251,000	1,907,919	1,902,992	2,476,720	2,631,051	2,670,140	3.3	6.2
Coal.....	872,374	983,603	1,215,597	1,193,492	1,338,940	1,531,251	1,515,020	2.9	3.5
Petroleum.....	3,156	8,111	6,246	7,832	8,312	10,162	9,309	*	*
Natural Gas.....	102,127	202,565	110,567	138,376	147,923	33,690	10,376	.3	*
Hydroelectric.....	18,266	11,886	12,666	14,896	9,695	8,271	8,960	.1	*
Other Renewables.....	643	44,835	562,843	548,396	971,850	1,047,676	1,126,476	*	2.6
Total Electric Industry	30,044,506	34,752,928	41,542,010	40,658,512	42,528,384	42,116,192	43,248,189	100.0	100.0
Coal.....	25,751,941	29,409,704	35,067,093	34,665,095	35,372,059	35,819,945	35,272,285	85.7	81.6
Petroleum.....	54,471	65,861	101,877	102,628	63,864	101,335	108,564	.2	.3
Natural Gas.....	333,390	479,889	433,764	592,852	554,719	312,896	824,671	1.1	1.9
Nuclear.....	3,011,572	3,729,970	4,452,884	3,852,722	4,573,958	3,987,657	4,928,948	10.0	11.4
Hydroelectric.....	875,114	1,002,974	904,010	845,154	946,383	788,593	945,959	2.9	2.2
Other Renewables.....	18,018	64,530	582,382	600,061	1,017,402	1,105,765	1,167,763	.1	2.7

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Iowa							
Coal (cents per million Btu).....	111.8	98.7	81.6	81.4	W	W	W
Average heat value (Btu per pound).....	8,892	8,678	8,626	9,001	8,860	8,705	8,665
Average sulfur Content (percent).....	.7	.5	.4	.4	.4	.4	.4
Petroleum (cents per million Btu).....	518.1	96.3	643.1	617.0	579.0	634.6	459.0
Average heat value (Btu per gallon).....	137,943	77,325	138,731	139,619	137,281	139,171	137,162
Average sulfur Content (percent).....	.1	5.1	.1	*	*	*	2.1
Natural Gas (cents per million Btu).....	304.5	271.0	454.7	477.1	W	593.3	712.5
Average heat value (Btu per cubic foot).....	1,006	1,005	1,003	1,018	1,015	1,004	1,003

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Iowa							
Sulfur Dioxide							
Coal	182	171	148	166	166	138	134
Petroleum.....	*	12	1	*	*	1	1
Natural Gas	0	0	0	0	0	0	*
Other.....	*	*	*	*	*	*	*
Total.....	183	183	149	166	166	139	135
Nitrogen Oxide							
Coal	151	161	85	85	87	77	78
Petroleum.....	*	1	*	*	*	*	*
Gas.....	1	2	1	2	2	1	1
Other.....	*	*	*	*	*	*	*
Total.....	152	164	87	87	89	78	79
Carbon Dioxide							
Coal	28,349	33,698	40,022	39,999	39,880	40,185	39,601
Petroleum.....	85	78	112	115	81	121	137
Gas.....	526	915	766	889	934	295	288
Geothermal	0	0	0	0	0	0	0
Other.....	32	*	0	0	1	15	17
Total.....	28,992	34,691	40,900	41,003	40,897	40,616	40,043

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Iowa									
Retail Sales (thousand megawatthours)									
Residential.....	10,513	11,640	12,029	12,430	12,921	12,768	12,625	35.7	30.9
Commercial	6,727	7,607	8,375	8,512	8,803	11,637	10,840	22.9	26.5
Industrial.....	11,392	13,771	17,127	16,238	16,548	16,803	17,437	38.7	42.6
Other	804	1,284	1,558	2,264	2,626	NA	NA	2.7	NA
Total.....	29,437	34,301	39,088	39,444	40,898	41,207	40,903	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	821	959	1,007	1,045	1,079	1,094	1,132	47.0	43.2
Commercial	422	490	551	570	578	726	731	24.2	27.9
Industrial.....	453	542	665	679	672	699	756	26.0	28.9
Other	49	79	95	128	129	NA	NA	2.8	NA
Total.....	1,745	2,069	2,319	2,422	2,458	2,519	2,619	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.81	8.24	8.37	8.41	8.35	8.57	8.96	NA	NA
Commercial	6.27	6.44	6.57	6.69	6.56	6.24	6.74	NA	NA
Industrial.....	3.98	3.93	3.88	4.18	4.06	4.16	4.33	NA	NA
Other	6.04	6.13	6.13	5.67	4.92	NA	NA	NA	NA
Total.....	5.93	6.03	5.93	6.14	6.01	6.11	6.40	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Iowa								
Number of Entities.....	3	138	NA	43	1	NA	NA	185
Number of Retail Customers.....	1,079,272	203,377	NA	208,576	106	NA	NA	1,491,331
Retail Sales (thousand megawatthours)	30,199	5,022	NA	5,394	287	NA	NA	40,903
Percentage of Retail Sales	73.83	12.28	NA	13.19	.70	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,907	309	NA	385	18	NA	NA	2,619
Percentage of Revenue.....	72.82	11.78	NA	14.71	.69	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.31	6.14	NA	7.14	6.30	NA	NA	6.40

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Kansas		
NERC Region(s).....		SPP/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	10,850	33
Electric Utilities	10,705	21
Independent Power Producers & Combined Heat and Power	146	47
Net Generation (megawatthours).....	46,782,659	31
Electric Utilities	46,409,328	22
Independent Power Producers & Combined Heat and Power	373,331	48
Emissions (thousand metric tons)		
Sulfur Dioxide	112	23
Nitrogen Oxide.....	84	19
Carbon Dioxide.....	37,288	27
Sulfur Dioxide (lbs/MWh).....	5.3	19
Nitrogen Oxide (lbs/MWh).....	4.0	8
Carbon Dioxide (lbs/MWh).....	1,757	15
Total Retail Sales (megawatthours).....	37,126,540	32
Full Service Provider Sales (megawatthours).....	37,126,540	32
Direct Use (megawatthours).....	62,166	49
Average Retail Price (cents/kWh).....	6.37	35

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Kansas			
1. Jeffrey Energy Center	Other,Petroleum,Coal	Westar Energy	2,214
2. La Cygne	Petroleum,Coal	Kansas City Power & Light Co	1,362
3. Wolf Creek Generating Station	Nuclear	Wolf Creek Nuclear Optg Corp	1,166
4. Gordon Evans Energy Center.....	Gas,Petroleum	Kansas Gas & Electric Co	834
5. Lawrence Energy Center.....	Gas,Coal	Westar Energy	567
6. Hutchinson Energy Center.....	Gas,Petroleum	Westar Energy	476
7. Holcomb	Gas,Coal	Sunflower Electric Power Corp	360
8. Murray Gill.....	Gas,Petroleum	Kansas Gas & Electric Co	317
9. West Gardner.....	Gas	Kansas City Power & Light Co	308
10. Quindaro	Petroleum,Gas,Coal	Kansas City City of	305

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Kansas						
1. Westar Energy	Investor-Owned	9,225,171	3,108,752	4,156,746	1,959,673	0
2. Kansas Gas & Electric Co	Investor-Owned	9,138,913	2,815,831	2,812,260	3,510,822	0
3. Kansas City Power & Light Co.....	Investor-Owned	5,864,441	2,548,494	2,906,898	409,049	0
4. Kansas City City of.....	Public	2,338,141	513,453	822,273	1,002,415	0
5. Aquila Inc	Investor-Owned	1,811,047	460,406	583,163	767,478	0
Total Sales, Top Five Providers.....		28,377,713	9,446,936	11,281,340	7,649,437	0
Percent of Total State Sales		76	76	82	70	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kansas									
Electric Utilities	9,578	9,675	10,086	10,223	10,244	10,730	10,705	99.6	98.7
Coal.....	5,064	5,244	5,295	5,295	5,310	5,265	5,222	52.6	48.1
Petroleum.....	198	211	245	244	265	277	381	2.1	3.5
Natural Gas.....	579	415	505	754	590	990	991	6.0	9.1
Dual Fired.....	2,600	2,638	2,871	2,760	2,910	3,032	2,943	27.0	27.1
Nuclear.....	1,135	1,167	1,170	1,170	1,170	1,165	1,166	11.8	10.7
Hydroelectric	2	0	0	0	0	0	0	*	.0
Other Renewables.....	0	0	0	0	0	2	1	.0	*
Independent Power Producers and Combined									
Heat and Power	43	49	49	153	152	146	146	.4	1.3
Petroleum.....	4	4	1	4	4	0	0	*	.0
Natural Gas.....	4	1	42	29	29	27	27	*	.2
Dual Fired.....	35	42	2	5	4	4	4	.4	*
Hydroelectric	0	2	3	2	2	3	3	.0	*
Other Renewables.....	0	0	0	112	112	112	112	.0	1.0
Total Electric Industry	9,621	9,725	10,134	10,376	10,396	10,876	10,850	100.0	100.0
Coal.....	5,064	5,244	5,295	5,295	5,310	5,265	5,222	52.6	48.1
Petroleum.....	203	215	246	249	269	277	381	2.1	3.5
Natural Gas.....	583	417	547	783	619	1,017	1,018	6.1	9.4
Dual Fired.....	2,634	2,680	2,873	2,765	2,914	3,036	2,947	27.4	27.2
Nuclear.....	1,135	1,167	1,170	1,170	1,170	1,165	1,166	11.8	10.7
Hydroelectric	3	2	3	2	2	3	3	*	*
Other Renewables.....	0	0	0	112	112	114	113	.0	1.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kansas									
Electric Utilities	33,868,644	38,230,483	44,764,909	44,642,712	46,691,936	46,155,505	46,409,328	99.1	99.2
Coal.....	23,720,258	25,896,959	32,507,051	31,768,001	35,369,189	35,109,616	34,593,346	69.4	73.9
Petroleum.....	65,744	73,764	420,746	616,418	508,857	963,751	853,742	.2	1.8
Natural Gas.....	2,196,341	2,197,557	2,776,278	1,911,642	1,772,188	1,190,819	826,668	6.4	1.8
Nuclear.....	7,874,487	10,062,177	9,060,834	10,346,651	9,041,702	8,889,667	10,132,736	23.0	21.7
Hydroelectric	11,769	0	0	0	0	0	0	*	.0
Other Renewables	45	26	0	0	0	1,651	2,835	.0	*
Independent Power Producers and Combined									
Heat and Power	316,213	190,222	50,996	105,811	496,510	412,056	373,331	.9	.8
Petroleum.....	8,282	2,100	626	759	221	381	0	*	.0
Natural Gas.....	306,466	176,908	35,038	39,658	16,864	34,951	4,987	.9	*
Hydroelectric	1,465	11,214	15,332	25,562	12,746	12,435	12,547	*	*
Other Renewables	0	0	0	39,832	466,679	364,288	355,797	.0	.8
Total Electric Industry	34,184,857	38,420,705	44,815,905	44,748,523	47,188,446	46,567,560	46,782,659	100.0	100.0
Coal.....	23,720,258	25,896,959	32,507,051	31,768,001	35,369,189	35,109,616	34,593,346	69.4	73.9
Petroleum.....	74,026	75,864	421,372	617,177	509,078	964,132	853,742	.2	1.8
Natural Gas.....	2,502,807	2,374,465	2,811,316	1,951,300	1,789,052	1,225,770	831,655	7.3	1.8
Nuclear.....	7,874,487	10,062,177	9,060,834	10,346,651	9,041,702	8,889,667	10,132,736	23.0	21.7
Hydroelectric	13,234	11,214	15,332	25,562	12,746	12,435	12,547	*	*
Other Renewables	45	26	0	39,832	466,679	365,939	358,632	.0	.8

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Kansas							
Coal (cents per million Btu)	124.2	102.1	98.5	104.8	98.3	101.5	102.8
Average heat value (Btu per pound).....	8,948	8,730	8,672	8,704	8,548	8,619	8,626
Average sulfur Content (percent).....	.6	.4	.4	.4	.4	.5	.4
Petroleum (cents per million Btu).....	540.4	212.2	400.0	336.1	272.7	361.7	406.8
Average heat value (Btu per gallon).....	138,177	104,067	154,872	154,357	152,240	156,948	156,855
Average sulfur Content (percent).....	.1	2.8	1.5	1.6	1.6	1.6	1.7
Natural Gas (cents per million Btu)	175.8	161.0	414.2	357.8	309.4	529.6	545.9
Average heat value (Btu per cubic foot)	990	980	1,010	1,012	1,000	1,014	1,008

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Kansas							
Sulfur Dioxide							
Coal	77	64	103	103	113	119	104
Petroleum.....	1	*	3	6	5	9	8
Natural Gas	*	*	*	*	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	79	64	106	109	118	128	112
Nitrogen Oxide							
Coal	120	134	77	72	83	82	81
Petroleum.....	*	*	1	1	1	3	2
Gas	4	4	6	4	3	2	1
Other.....	0	0	0	0	0	0	0
Total.....	125	138	83	77	87	86	84
Carbon Dioxide							
Coal	25,136	27,326	34,495	33,654	36,950	36,784	35,876
Petroleum.....	337	69	388	576	457	843	816
Gas	1,772	1,709	1,890	1,364	1,148	836	596
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	27,245	29,104	36,773	35,594	38,554	38,463	37,288

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kansas									
Retail Sales (thousand megawatthours)									
Residential.....	9,515	10,356	12,528	12,062	12,745	12,602	12,417	35.0	33.4
Commercial	9,169	10,273	12,511	12,787	13,392	13,751	13,831	33.8	37.3
Industrial.....	8,087	9,356	10,222	10,569	10,195	10,382	10,879	29.8	29.3
Other.....	378	372	660	429	381	NA	NA	1.4	NA
Total.....	27,149	30,357	35,921	35,847	36,714	36,735	37,127	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	745	820	959	925	977	971	962	41.7	40.7
Commercial	609	687	782	793	841	882	893	34.1	37.8
Industrial.....	400	451	465	481	462	479	510	22.4	21.6
Other.....	31	34	48	38	35	NA	NA	1.7	NA
Total.....	1,785	1,992	2,254	2,236	2,315	2,333	2,364	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.83	7.92	7.65	7.66	7.67	7.70	7.74	NA	NA
Commercial	6.64	6.68	6.25	6.20	6.28	6.42	6.45	NA	NA
Industrial.....	4.94	4.82	4.55	4.55	4.53	4.61	4.69	NA	NA
Other.....	8.17	9.21	7.29	8.91	9.30	NA	NA	NA	NA
Total.....	6.57	6.56	6.27	6.24	6.31	6.35	6.37	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Kansas								
Number of Entities.....	6	119	1	29	1	NA	NA	156
Number of Retail Customers.....	955,883	235,020	3	213,686	3	NA	NA	1,404,595
Retail Sales (thousand megawatthours).....	26,300	6,611	*	4,111	104	NA	NA	37,127
Percentage of Retail Sales	70.84	17.81	*	11.07	.28	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,581	425	*	353	5	NA	NA	2,364
Percentage of Revenue.....	66.88	17.96	*	14.93	.23	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.01	6.42	1.69	8.59	5.23	NA	NA	6.37

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Kentucky		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,627	20
Electric Utilities	15,860	16
Independent Power Producers & Combined Heat and Power	3,767	24
Net Generation (megawatthours).....	94,529,947	18
Electric Utilities	82,921,402	13
Independent Power Producers & Combined Heat and Power	11,608,545	25
Emissions (thousand metric tons)		
Sulfur Dioxide	469	6
Nitrogen Oxide.....	150	7
Carbon Dioxide.....	87,270	7
Sulfur Dioxide (lbs/MWh).....	10.9	5
Nitrogen Oxide (lbs/MWh).....	3.5	14
Carbon Dioxide (lbs/MWh).....	2,035	7
Total Retail Sales (megawatthours).....	86,521,156	15
Full Service Provider Sales (megawatthours).....	86,521,156	15
Direct Use (megawatthours).....	188,482	43
Average Retail Price (cents/kWh).....	4.63	51

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Kentucky			
1. Paradise.....	Petroleum,Coal	Tennessee Valley Authority	2,201
2. Ghent.....	Petroleum,Coal	Kentucky Utilities Co	1,945
3. E W Brown	Petroleum,Gas,Coal	Kentucky Utilities Co	1,546
4. Mill Creek	Gas,Coal	Louisville Gas & Electric Co	1,472
5. Trimble County.....	Petroleum,Gas,Coal	Louisville Gas & Electric Co	1,471
6. Shawnee.....	Petroleum,Coal	Tennessee Valley Authority	1,330
7. Big Sandy.....	Petroleum,Coal	Kentucky Power Co	1,060
8. H L Spurlock.....	Petroleum,Coal	East Kentucky Power Coop Inc	850
9. Riverside Generating LLC.....	Gas	Riverside Generating Co LLC	825
10. East Bend.....	Petroleum,Coal	Cincinnati Gas & Electric Co	600

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Kentucky						
1. Kentucky Utilities Co.....	Investor-Owned	17,285,987	5,754,764	5,651,451	5,879,772	0
2. Tennessee Valley Authority.....	Federal	13,359,685	0	0	13,359,685	0
3. Louisville Gas & Electric Co.....	Investor-Owned	11,723,656	3,923,943	4,781,061	3,018,652	0
4. Kenergy Corp.....	Cooperative	9,359,445	698,432	279,726	8,381,287	0
5. Kentucky Power Co.....	Investor-Owned	6,976,594	2,411,361	1,384,236	3,180,997	0
Total Sales, Top Five Providers.....		58,705,367	12,788,500	12,096,474	33,820,393	0
Percent of Total State Sales.....		68	51	66	79	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kentucky									
Electric Utilities	15,511	15,425	14,781	15,229	15,418	15,349	15,860	100.0	80.8
Coal.....	14,306	14,011	12,559	12,561	12,496	12,435	12,441	92.2	63.4
Petroleum.....	135	134	70	70	70	70	70	.9	.4
Natural Gas.....	207	92	92	348	673	684	1,306	1.3	6.7
Dual Fired.....	68	399	1,246	1,430	1,358	1,342	1,217	.4	6.2
Hydroelectric	795	789	814	821	821	818	817	5.1	4.2
Other Renewables.....	0	0	0	0	0	0	9	.0	*
Independent Power Producers and Combined									
Heat and Power	0	4	2,017	2,350	3,704	3,719	3,767	.0	19.2
Coal.....	0	0	1,906	1,716	1,716	1,716	1,716	.0	8.7
Petroleum.....	0	0	0	0	0	0	65	.0	.3
Natural Gas.....	0	0	23	518	1,328	1,343	1,343	.0	6.8
Dual Fired.....	0	0	85	65	609	609	600	.0	3.1
Other Renewables.....	0	4	4	51	51	51	43	.0	.2
Total Electric Industry	15,511	15,429	16,798	17,579	19,122	19,068	19,627	100.0	100.0
Coal.....	14,306	14,011	14,465	14,277	14,212	14,151	14,157	92.2	72.1
Petroleum.....	135	134	70	70	70	70	135	.9	.7
Natural Gas.....	207	92	115	866	2,001	2,027	2,649	1.3	13.5
Dual Fired.....	68	399	1,331	1,495	1,967	1,951	1,817	.4	9.3
Hydroelectric	795	789	814	821	821	818	817	5.1	4.2
Other Renewables.....	0	4	4	51	51	51	52	.0	.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kentucky									
Electric Utilities	73,807,286	86,161,578	81,349,922	83,677,982	80,161,524	80,696,982	82,921,402	100.0	87.7
Coal.....	70,500,461	82,539,467	78,598,836	79,381,504	75,308,162	76,367,048	78,574,428	95.5	83.1
Petroleum.....	118,646	130,598	118,876	120,418	135,412	130,280	93,651	.2	.1
Natural Gas.....	27,796	68,035	307,642	320,552	693,201	229,930	398,814	*	.4
Other Gases.....	0	0	0	0	0	0	1,701	.0	*
Hydroelectric	3,160,383	3,423,478	2,324,568	3,855,508	4,024,749	3,948,052	3,780,251	4.3	4.0
Other Renewables	0	0	0	0	0	21,672	72,557	.0	.1
Independent Power Producers and Combined									
Heat and Power	0	4,258	11,656,161	11,739,644	11,945,144	11,021,838	11,608,545	.0	12.3
Coal.....	0	0	11,464,218	11,417,074	7,966,084	7,693,492	7,546,083	.0	8.0
Petroleum.....	0	0	25,817	3,142	2,933,086	2,814,631	3,527,448	.0	3.7
Natural Gas.....	0	0	153,723	309,875	680,509	214,475	180,415	.0	.2
Other Gases.....	0	0	110	0	0	0	0	.0	.0
Other Renewables	0	4,258	12,293	9,553	365,465	299,240	354,600	.0	.4
Total Electric Industry	73,807,286	86,165,836	93,006,083	95,417,626	92,106,668	91,718,820	94,529,947	100.0	100.0
Coal.....	70,500,461	82,539,467	90,063,054	90,798,578	83,274,246	84,060,540	86,120,511	95.5	91.1
Petroleum.....	118,646	130,598	144,693	123,560	3,068,498	2,944,911	3,621,099	.2	3.8
Natural Gas.....	27,796	68,035	461,365	630,427	1,373,710	444,405	579,229	*	.6
Other Gases.....	0	0	110	0	0	0	1,701	.0	*
Hydroelectric	3,160,383	3,423,478	2,324,568	3,855,508	4,024,749	3,948,052	3,780,251	4.3	4.0
Other Renewables	0	4,258	12,293	9,553	365,465	320,912	427,157	.0	.5

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Kentucky							
Coal (cents per million Btu)	119.3	110.6	102.3	110.4	118.8	122.8	136.6
Average heat value (Btu per pound).....	11,558	11,625	11,604	11,428	11,513	11,498	11,550
Average sulfur Content (percent).....	2.6	2.4	2.3	2.1	2.2	2.1	2.1
Petroleum (cents per million Btu).....	575.0	318.0	559.3	567.3	464.6	W	W
Average heat value (Btu per gallon).....	138,945	118,026	125,374	139,381	133,017	132,664	131,967
Average sulfur Content (percent).....	.3	1.9	1.3	.3	1.0	3.9	4.8
Natural Gas (cents per million Btu)	297.5	294.1	495.8	458.9	351.2	657.7	W
Average heat value (Btu per cubic foot)	1,020	1,022	1,025	1,024	1,023	1,017	1,017

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Kentucky							
Sulfur Dioxide							
Coal	818	704	530	486	427	474	460
Petroleum.....	*	*	*	*	11	7	5
Natural Gas	0	0	0	0	*	0	0
Other.....	0	0	0	0	2	3	3
Total.....	819	704	531	486	440	483	469
Nitrogen Oxide							
Coal	301	321	223	210	174	161	145
Petroleum.....	*	*	*	*	5	6	4
Gas.....	*	*	1	1	1	*	1
Other.....	0	*	*	*	1	1	1
Total.....	301	321	223	211	181	169	150
Carbon Dioxide							
Coal	66,147	76,527	86,846	87,072	82,188	81,565	82,652
Petroleum.....	94	118	130	96	4,039	3,411	4,126
Gas.....	15	46	375	403	955	570	472
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	27	20
Total.....	66,257	76,692	87,351	87,571	87,182	85,573	87,270

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kentucky									
Retail Sales (thousand megawatthours)									
Residential.....	16,814	20,537	23,374	23,698	25,347	24,704	25,187	27.5	29.1
Commercial	9,252	10,524	13,933	14,338	14,745	17,946	18,443	15.1	21.3
Industrial	32,543	40,490	37,689	38,676	43,812	42,570	42,891	53.3	49.6
Other	2,488	2,997	3,320	3,263	3,362	NA	NA	4.1	NA
Total.....	61,097	74,548	78,316	79,975	87,267	85,220	86,521	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	958	1,155	1,279	1,323	1,431	1,435	1,538	35.0	38.4
Commercial	497	552	717	746	782	963	1,034	18.2	25.8
Industrial	1,165	1,186	1,136	1,176	1,353	1,365	1,432	42.6	35.8
Other	117	140	146	148	155	NA	NA	4.3	NA
Total.....	2,737	3,034	3,277	3,393	3,721	3,763	4,004	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	5.69	5.62	5.47	5.58	5.65	5.81	6.11	NA	NA
Commercial	5.37	5.25	5.14	5.20	5.30	5.37	5.60	NA	NA
Industrial	3.58	2.93	3.01	3.04	3.09	3.21	3.34	NA	NA
Other	4.69	4.68	4.40	4.53	4.61	NA	NA	NA	NA
Total.....	4.48	4.07	4.18	4.24	4.26	4.42	4.63	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Kentucky								
Number of Entities.....	6	30	1	24	NA	NA	NA	61
Number of Retail Customers.....	1,183,842	203,922	22	759,223	NA	NA	NA	2,147,009
Retail Sales (thousand megawatthours).....	41,091	6,560	13,360	25,510	NA	NA	NA	86,521
Percentage of Retail Sales	47.49	7.58	15.44	29.48	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,972	363	359	1,310	NA	NA	NA	4,004
Percentage of Revenue.....	49.26	9.06	8.97	32.71	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.80	5.53	2.69	5.13	NA	NA	NA	4.63

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Louisiana		
NERC Region(s).....		SPP/SERC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	26,465	14
Electric Utilities	14,176	17
Independent Power Producers & Combined Heat and Power	12,289	9
Net Generation (megawatthours).....	98,172,309	15
Electric Utilities	47,603,602	20
Independent Power Producers & Combined Heat and Power	50,568,707	8
Emissions (thousand metric tons)		
Sulfur Dioxide.....	132	22
Nitrogen Oxide.....	88	17
Carbon Dioxide.....	58,114	16
Sulfur Dioxide (lbs/MWh).....	3.0	35
Nitrogen Oxide (lbs/MWh).....	2.0	32
Carbon Dioxide (lbs/MWh).....	1,305	30
Total Retail Sales (megawatthours).....	79,737,112	18
Full Service Provider Sales (megawatthours).....	79,737,112	17
Direct Use (megawatthours).....	22,071,042	2
Average Retail Price (cents/kWh).....	7.13	20

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Louisiana			
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.....	Gas,Petroleum,Coal	Entergy Gulf States Inc	1,416
5. Little Gypsy.....	Gas	Entergy Louisiana Inc	1,198
6. Waterford 3.....	Nuclear	Entergy Louisiana Inc	1,087
7. Acadia Energy Center.....	Gas	Calpine Corp	1,063
8. River Bend.....	Nuclear	Entergy Gulf States Inc	968
9. Rodemacher.....	Petroleum,Gas,Coal	CLECO Power LLC	963
10. Michoud.....	Petroleum,Gas	Entergy New Orleans Inc	854

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Louisiana						
1. Entergy Louisiana Inc.....	Investor-Owned	28,182,541	8,841,949	6,200,592	13,140,000	0
2. Entergy Gulf States Inc.....	Investor-Owned	19,249,375	4,676,923	4,815,097	9,757,355	0
3. CLECO Power LLC.....	Investor-Owned	8,860,177	3,507,007	2,450,775	2,902,395	0
4. Entergy New Orleans Inc.....	Investor-Owned	6,057,248	2,138,663	3,327,536	575,195	15,854
5. Southwestern Electric Power Co.....	Investor-Owned	5,353,932	2,228,130	2,303,896	821,906	0
Total Sales, Top Five Providers.....		67,703,273	21,392,672	19,097,896	27,196,851	15,854
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, 1990, 1995, and 2000 Through 2004
(Megawatts)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Louisiana									
Electric Utilities	16,751	17,019	14,317	14,165	14,233	14,090	14,176	86.0	53.6
Coal.....	3,343	2,843	1,723	1,723	1,723	1,723	1,723	17.2	6.5
Petroleum.....	17	16	16	11	16	16	18	.1	.1
Natural Gas.....	2,645	2,401	1,243	1,238	1,735	1,586	2,637	13.6	10.0
Dual Fired.....	8,735	9,748	9,324	9,121	8,689	8,698	7,742	44.8	29.3
Nuclear.....	2,011	2,011	2,012	2,073	2,071	2,067	2,055	10.3	7.8
Independent Power Producers and Combined									
Heat and Power	2,727	2,794	6,797	7,556	11,400	11,660	12,289	14.0	46.4
Coal.....	14	8	1,783	1,783	1,730	1,730	1,730	.1	6.5
Petroleum.....	0	0	0	43	46	46	46	.0	.2
Natural Gas.....	1,541	1,634	3,800	4,738	8,724	8,996	9,412	7.9	35.6
Other Gases.....	114	82	105	64	62	63	65	.6	.2
Dual Fired.....	386	380	601	462	451	433	433	2.0	1.6
Hydroelectric.....	182	182	182	192	192	192	192	.9	.7
Other Renewables.....	468	486	304	253	170	175	334	2.4	1.3
Other.....	21	21	21	22	24	24	77	.1	.3
Total Electric Industry	19,479	19,814	21,115	21,721	25,633	25,749	26,465	100.0	100.0
Coal.....	3,357	2,851	3,506	3,506	3,453	3,453	3,453	17.2	13.0
Petroleum.....	17	16	16	54	62	62	64	.1	.2
Natural Gas.....	4,186	4,035	5,042	5,976	10,458	10,581	12,049	21.5	45.5
Other Gases.....	114	82	105	64	62	63	65	.6	.2
Dual Fired.....	9,122	10,128	9,926	9,582	9,140	9,131	8,175	46.8	30.9
Nuclear.....	2,011	2,011	2,012	2,073	2,071	2,067	2,055	10.3	7.8
Hydroelectric.....	182	182	182	192	192	192	192	.9	.7
Other Renewables.....	469	487	304	253	170	175	335	2.4	1.3
Other.....	21	21	21	22	24	24	77	.1	.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Louisiana									
Electric Utilities	58,168,408	65,555,229	57,601,142	50,378,001	54,921,960	43,485,059	47,603,602	76.1	48.5
Coal.....	17,800,084	18,954,264	14,484,315	10,917,220	12,258,694	11,020,325	11,324,239	23.3	11.5
Petroleum.....	130,260	48,558	625,093	1,722,244	68,460	1,007,874	3,693,520	.2	3.8
Natural Gas.....	26,041,280	30,866,507	26,695,995	20,402,402	25,085,994	15,093,742	15,138,928	34.1	15.4
Other Gases.....	0	0	0	0	203,484	236,796	366,934	.0	.4
Nuclear.....	14,196,784	15,685,900	15,795,739	17,336,135	17,305,328	16,126,322	17,079,981	18.6	17.4
Independent Power Producers and Combined									
Heat and Power	18,297,222	19,004,495	35,264,493	37,516,376	40,049,003	51,399,981	50,568,707	23.9	51.5
Coal.....	56,603	35,210	9,004,549	11,050,926	9,792,212	11,868,605	12,328,719	.1	12.6
Petroleum.....	101,838	1,437,656	1,451,267	1,727,695	1,796,076	1,930,074	152,391	.1	.2
Natural Gas.....	13,433,586	12,351,240	19,433,248	19,970,352	22,814,853	30,340,456	30,678,522	17.6	31.3
Other Gases.....	440,700	982,181	1,598,632	440,544	1,294,140	2,450,434	2,827,222	.6	2.9
Hydroelectric.....	656,492	952,144	532,290	732,217	891,441	891,991	1,098,825	.9	1.1
Other Renewables.....	2,315,184	2,645,416	2,792,452	2,747,546	2,862,791	3,174,765	2,779,491	3.0	2.8
Other.....	1,292,819	600,648	452,055	847,096	597,490	743,656	703,537	1.7	.7
Total Electric Industry	76,465,630	84,559,724	92,865,635	87,894,377	94,970,964	94,885,040	98,172,309	100.0	100.0
Coal.....	17,856,687	18,989,474	23,488,864	21,968,146	22,050,906	22,888,930	23,652,958	23.4	24.1
Petroleum.....	232,098	1,486,214	2,076,360	3,449,939	1,864,536	2,937,948	3,845,911	.3	3.9
Natural Gas.....	39,474,866	43,217,747	46,129,243	40,372,754	47,900,847	45,434,198	45,817,450	51.6	46.7
Other Gases.....	440,700	982,181	1,598,632	440,544	1,497,624	2,687,230	3,194,156	.6	3.3
Nuclear.....	14,196,784	15,685,900	15,795,739	17,336,135	17,305,328	16,126,322	17,079,981	18.6	17.4
Hydroelectric.....	656,492	952,144	532,290	732,217	891,441	891,991	1,098,825	.9	1.1
Other Renewables.....	2,315,184	2,645,416	2,792,452	2,747,546	2,862,791	3,174,765	2,779,491	3.0	2.8
Other.....	1,292,819	600,648	452,055	847,096	597,490	743,656	703,537	1.7	.7

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Louisiana							
Coal (cents per million Btu).....	169.5	154.9	132.0	130.9	W	W	W
Average heat value (Btu per pound).....	8,194	8,110	7,933	8,032	7,904	8,023	8,146
Average sulfur Content (percent).....	.5	.6	.6	.7	.5	.5	.5
Petroleum (cents per million Btu).....	371.5	348.1	459.2	519.0	63.4	246.6	285.6
Average heat value (Btu per gallon).....	144,963	141,544	149,843	145,452	140,060	145,807	147,379
Average sulfur Content (percent).....	.4	.1	.9	.7	5.4	3.8	3.4
Natural Gas (cents per million Btu).....	165.9	180.6	439.6	413.2	342.4	561.2	632.9
Average heat value (Btu per cubic foot).....	1,045	1,043	1,034	1,043	1,029	1,033	1,031

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Louisiana							
Sulfur Dioxide							
Coal	91	124	82	79	79	87	87
Petroleum.....	3	86	80	94	82	83	20
Natural Gas	*	*	*	1	*	*	*
Other.....	18	20	19	20	19	24	25
Total.....	112	231	182	193	180	194	132
Nitrogen Oxide							
Coal	83	83	45	40	40	39	37
Petroleum.....	*	5	5	8	5	10	5
Gas.....	55	61	69	65	65	39	37
Other.....	13	6	5	7	6	8	8
Total.....	152	156	124	119	117	96	88
Carbon Dioxide							
Coal	18,137	20,175	24,282	22,997	22,187	23,593	24,330
Petroleum.....	201	1,895	2,221	3,523	2,042	3,008	4,353
Gas.....	25,613	28,909	30,904	27,820	30,495	29,010	29,130
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	162	253	302
Total.....	43,951	50,979	57,407	54,340	54,886	55,863	58,114

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Louisiana									
Retail Sales (thousand megawatthours)									
Residential.....	21,434	24,116	27,719	25,800	28,157	28,572	28,863	33.6	36.2
Commercial	13,814	15,575	18,225	17,722	18,686	21,944	22,568	21.6	28.3
Industrial.....	25,862	30,692	31,950	28,574	29,662	27,251	28,290	40.5	35.5
Other	2,716	2,444	2,795	2,596	2,756	NA	NA	4.3	NA
Transportation.....	NA	NA	NA	NA	NA	3	16	NA	.0
Total.....	63,826	72,827	80,690	74,693	79,261	77,769	79,737	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,587	1,744	2,127	2,044	2,000	2,241	2,324	41.4	40.9
Commercial	973	1,055	1,308	1,343	1,242	1,628	1,710	25.4	30.1
Industrial.....	1,083	1,219	1,599	1,596	1,310	1,518	1,646	28.3	29.0
Other	187	170	195	219	194	NA	NA	4.9	NA
Transportation.....	NA	NA	NA	NA	NA	0	1	NA	.0
Total.....	3,830	4,189	5,229	5,201	4,746	5,387	5,682	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.41	7.23	7.67	7.92	7.10	7.84	8.05	NA	NA
Commercial	7.05	6.77	7.18	7.58	6.64	7.42	7.58	NA	NA
Industrial.....	4.19	3.97	5.00	5.58	4.42	5.57	5.82	NA	NA
Other	6.88	6.97	6.98	8.43	7.05	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.32	7.09	NA	NA
Total.....	6.00	5.75	6.48	6.96	5.99	6.93	7.13	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Louisiana								
Number of Entities.....	5	22	NA	13	NA	NA	NA	40
Number of Retail Customers.....	1,632,085	156,039	NA	381,063	NA	NA	NA	2,169,187
Retail Sales (thousand megawatthours)	67,703	4,370	NA	7,664	NA	NA	NA	79,737
Percentage of Retail Sales	84.91	5.48	NA	9.61	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	4,862	305	NA	515	NA	NA	NA	5,682
Percentage of Revenue.....	85.58	5.36	NA	9.06	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.18	6.97	NA	6.72	NA	NA	NA	7.13

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Maine		
NERC Region(s).....		NPCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	4,190	43
Electric Utilities	19	49
Independent Power Producers & Combined Heat and Power	4,170	22
Net Generation (megawatthours).....	19,098,885	43
Electric Utilities	1,121	50
Independent Power Producers & Combined Heat and Power	19,097,764	15
Emissions (thousand metric tons)		
Sulfur Dioxide	20	42
Nitrogen Oxide	11	44
Carbon Dioxide	7,043	44
Sulfur Dioxide (lbs/MWh).....	2.3	39
Nitrogen Oxide (lbs/MWh).....	1.2	42
Carbon Dioxide (lbs/MWh).....	813	44
Total Retail Sales (megawatthours).....	12,367,668	42
Full Service Provider Sales (megawatthours).....	592,783	51
Deregulated Sales (megawatthours).....	11,774,885	10
Direct Use (megawatthours).....	4,372,401	9
Average Retail Price (cents/kWh).....	9.69	11

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Maine			
1. William F Wyman.....	Petroleum	FPL Energy Wyman LLC	824
2. Westbrook Energy Center.....	Gas	Calpine Eastern Corp	506
3. Maine Independence Station.....	Gas	Casco Bay Energy Co LLC	490
4. Bucksport Mill.....	Petroleum,Other,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 Lakes Hydro America - ME.....	Hydroelectric	Great Lakes Hydro America LLC	129
8. Somerset Plant.....	Petroleum,Other	Sappi Fine Paper North America-Somerset	115
9. Millinocket Mill	Petroleum	Katahdin Paper Inc	103
10. Harris	Hydroelectric	FPL Energy Maine Hydro LLC	87

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Maine						
1. Constellation Power Source Inc.....	Power Marketer	5,815,188	4,203,753	1,540,192	71,243	0
2. Constellation NewEnergy, Inc.....	Power Marketer	1,617,767	0	1,617,767	0	0
3. WPS Energy Services.....	Power Marketer	1,197,884	325,636	663,494	208,754	0
4. Independence Power Marketing.....	Power Marketer	657,667	0	491,310	166,357	0
5. Select Energy.....	Power Marketer	554,172	0	254,100	300,072	0
Total Sales, Top Five Providers.....		9,842,678	4,529,389	4,566,863	746,426	0
Percent of Total State Sales.....		80	100	100	20	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Maine									
Electric Utilities	2,407	2,432	21	16	16	19	19	64.7	0.5
Petroleum.....	1,126	1,109	18	17	16	19	19	30.3	.5
Nuclear.....	860	870	0	0	0	0	0	23.1	.0
Hydroelectric.....	420	421	3	0	0	0	0	11.3	.0
Other Renewables.....	0	32	0	0	0	0	0	.0	.0
Independent Power Producers and Combined Heat and Power	1,312	1,357	4,187	4,191	4,271	4,265	4,170	35.3	99.5
Coal.....	100	96	96	85	85	85	85	2.7	2.0
Petroleum.....	230	181	1,203	1,046	1,097	1,097	998	6.2	23.8
Natural Gas.....	13	0	1,023	1,338	1,356	1,352	1,259	.3	30.0
Dual Fired.....	12	15	469	322	319	319	412	.3	9.8
Hydroelectric.....	338	352	708	682	718	720	722	9.1	17.2
Other Renewables.....	619	714	688	719	697	693	695	16.6	16.6
Total Electric Industry	3,719	3,790	4,208	4,208	4,288	4,285	4,190	100.0	100.0
Coal.....	100	96	96	85	85	85	85	2.7	2.0
Petroleum.....	1,356	1,290	1,221	1,063	1,113	1,116	1,017	36.5	24.3
Natural Gas.....	13	0	1,023	1,338	1,356	1,352	1,259	.3	30.0
Dual Fired.....	12	15	469	321	318	318	411	.3	9.8
Nuclear.....	860	870	0	0	0	0	0	23.1	.0
Hydroelectric.....	759	773	711	681	718	721	722	20.4	17.2
Other Renewables.....	619	746	688	720	698	693	695	16.6	16.6

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Maine									
Electric Utilities	9,063,595	2,668,381	2,781	0	865	1,409	1,121	56.8	*
Petroleum.....	2,092,804	812,024	0	0	865	1,409	1,121	13.1	*
Nuclear.....	4,860,727	197,577	0	0	0	0	0	30.5	0.0
Hydroelectric.....	2,110,064	1,658,481	2,781	0	0	0	0	13.2	.0
Other Renewables.....	0	299	0	0	0	0	0	.0	.0
Independent Power Producers and Combined									
Heat and Power	6,882,419	7,094,670	14,045,166	19,564,821	22,534,169	18,970,227	19,097,765	43.2	100.0
Coal.....	453,218	540,591	649,748	528,412	603,938	376,532	360,821	2.8	1.9
Petroleum.....	988,296	1,220,208	2,797,329	2,101,522	1,228,621	1,918,139	1,310,330	6.2	6.9
Natural Gas.....	50,786	7,219	3,044,440	10,052,949	13,503,963	9,438,704	9,826,264	.3	51.4
Other Gases.....	0	5,290	0	0	48	34	38	.0	.0
Hydroelectric.....	1,980,472	1,695,431	3,588,034	2,645,123	2,767,847	3,172,623	3,430,249	12.4	18.0
Other Renewables.....	3,409,647	3,625,931	3,821,868	4,088,415	4,429,752	3,909,608	3,901,212	21.4	20.4
Other.....	0	0	143,747	148,400	0	154,586	268,851	.0	1.4
Total Electric Industry	15,946,014	9,763,051	14,047,947	19,564,821	22,535,033	18,971,635	19,098,885	100.0	100.0
Coal.....	453,218	540,591	649,748	528,412	603,938	376,532	360,821	2.8	1.9
Petroleum.....	3,081,100	2,032,232	2,797,329	2,101,522	1,229,486	1,919,548	1,311,451	19.3	6.9
Natural Gas.....	50,786	7,219	3,044,440	10,052,949	13,503,963	9,438,704	9,826,264	.3	51.4
Other Gases.....	0	5,290	0	0	48	34	38	.0	.0
Nuclear.....	4,860,727	197,577	0	0	0	0	0	30.5	.0
Hydroelectric.....	4,090,536	3,353,912	3,590,815	2,645,123	2,767,847	3,172,623	3,430,249	25.7	18.0
Other Renewables.....	3,409,647	3,626,230	3,821,868	4,088,415	4,429,752	3,909,608	3,901,212	21.4	20.4
Other.....	0	0	143,747	148,400	0	154,586	268,851	.0	1.4

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Maine							
Coal (cents per million Btu).....	0.0	0.0	0.0	0.0	241.0	W	W
Average heat value (Btu per pound).....	0	0	0	0	12,015	13,124	12,854
Average sulfur Content (percent).....	.0	.0	.0	.0	.7	.7	.8
Petroleum (cents per million Btu).....	278.5	260.6	.0	.0	388.5	555.7	504.1
Average heat value (Btu per gallon).....	149,992	150,613	0	0	147,876	150,319	151,731
Average sulfur Content (percent).....	.9	.7	.0	.0	1.1	.8	1.0
Natural Gas (cents per million Btu).....	.0	.0	.0	.0	391.3	584.2	627.7
Average heat value (Btu per cubic foot).....	0	0	0	0	1,039	1,042	1,044

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Maine							
Sulfur Dioxide							
Coal	5	3	2	6	5	1	2
Petroleum.....	39	7	29	25	14	9	9
Natural Gas	0	0	*	*	*	*	*
Other.....	8	11	11	13	12	9	9
Total.....	52	21	42	44	31	20	20
Nitrogen Oxide							
Coal	3	3	3	3	3	1	1
Petroleum.....	7	5	5	5	3	3	2
Gas.....	*	*	1	1	3	1	1
Other.....	5	6	6	6	7	6	6
Total.....	14	14	14	15	15	11	11
Carbon Dioxide							
Coal	724	799	847	901	1,370	634	398
Petroleum.....	4,242	3,703	3,690	2,974	1,949	2,395	1,949
Gas.....	44	6	1,572	4,485	6,166	4,145	4,247
Geothermal	0	0	0	0	0	0	0
Other.....	61	78	79	77	625	488	448
Total.....	5,071	4,586	6,188	8,438	10,110	7,662	7,043

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Maine									
Retail Sales (thousand megawatthours)									
Residential.....	3,932	3,629	3,737	3,903	4,043	4,219	4,331	34.1	35.0
Commercial	2,673	2,835	3,712	3,779	3,789	3,959	4,325	23.2	35.0
Industrial.....	4,750	4,959	4,551	4,413	3,550	3,793	3,711	41.2	30.0
Other	174	138	163	57	59	NA	NA	1.5	NA
Total.....	11,529	11,561	12,163	12,152	11,441	11,972	12,368	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	366	454	467	512	515	522	527	41.5	44.0
Commercial	214	292	380	440	405	409	428	24.3	35.7
Industrial.....	283	330	314	315	250	241	244	32.1	20.4
Other	19	22	19	15	14	NA	NA	2.2	NA
Total.....	882	1,097	1,178	1,282	1,184	1,172	1,198	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.29	12.51	12.49	13.13	12.74	12.37	12.16	NA	NA
Commercial	8.02	10.28	10.23	11.64	10.68	10.34	9.89	NA	NA
Industrial.....	5.96	6.65	6.89	7.15	7.05	6.35	6.56	NA	NA
Other	10.85	15.67	11.45	25.40	23.38	NA	NA	NA	NA
Total.....	7.65	9.48	9.69	10.55	10.35	9.79	9.68	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Maine								
Number of Entities.....	2	4	NA	3	1	15	6	31
Number of Retail Customers.....	1,334	9,860	NA	2,433	1	747,723	NA	761,351
Retail Sales (thousand megawatthours).....	275	158	NA	30	130	11,775	NA	12,368
Percentage of Retail Sales.....	2.22	1.28	NA	.24	1.05	95.21	NA	100.00
Revenue from Retail Sales (million dollars).....	15	10	NA	3	5	600	563	1,198
Percentage of Revenue.....	1.27	.87	NA	.29	.45	50.13	46.99	100.00
Average Retail Price (cents/kWh).....	5.55	6.63	NA	11.59	4.16	5.10	4.78	9.69

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Maryland		
NERC Region(s).....		ECAR/MAAC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	12,499	28
Electric Utilities	79	47
Independent Power Producers & Combined Heat and Power	12,420	8
Net Generation (megawatthours)	52,052,770	26
Electric Utilities	30,023	47
Independent Power Producers & Combined Heat and Power	52,022,747	7
Emissions (thousand metric tons)		
Sulfur Dioxide	276	14
Nitrogen Oxide.....	62	30
Carbon Dioxide.....	31,799	29
Sulfur Dioxide (lbs/MWh).....	11.7	3
Nitrogen Oxide (lbs/MWh).....	2.6	22
Carbon Dioxide (lbs/MWh).....	1,347	26
Total Retail Sales (megawatthours).....	66,891,700	23
Full Service Provider Sales (megawatthours).....	53,239,637	24
Deregulated Sales (megawatthours).....	13,652,063	7
Direct Use (megawatthours).....	1,198,292	28
Average Retail Price (cents/kWh).....	7.15	19

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Maryland			
1. Chalk Point LLC.....	Petroleum,Coal	Mirant Chalk Point LLC	2,429
2. Calvert Cliffs Nuclear Power Plant.....	Nuclear	Calvert Cliffs Nuclear PP Inc	1,735
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	1,004
6. Dickerson.....	Petroleum,Gas,Coal	Mirant Mid-Atlantic LLC	853
7. Rock Springs Generation Facility.....	Gas	CED Operating Co LLC	629
8. Conowingo.....	Hydroelectric	Susquehanna Electric Co	548
9. C P Crane.....	Petroleum,Gas,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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Maryland						
1. Baltimore Gas & Electric Co.....	Investor-Owned	24,029,003	13,313,800	3,414,109	7,301,094	0
2. Potomac Electric Power Co.....	Investor-Owned	11,053,887	5,557,133	5,384,686	89,279	22,789
3. Potomac Edison Co.....	Investor-Owned	9,735,431	3,197,051	1,902,549	4,635,831	0
4. PEPCO Energy Services.....	Power Marketer	4,939,512	284,941	4,512,335	0	142,236
5. Delmarva Power & Light Company.....	Investor-Owned	3,576,308	2,204,333	1,187,754	184,221	0
Total Sales, Top Five Providers.....		53,334,141	24,557,258	16,401,433	12,210,425	165,025
Percent of Total State Sales.....		80	88	95	58	34

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Maryland									
Electric Utilities	9,758	10,957	753	70	69	70	79	97.0	0.6
Coal.....	3,975	4,636	0	0	0	0	0	39.5	.0
Petroleum.....	1,782	1,387	220	50	48	50	50	17.7	.4
Natural Gas.....	1,079	2,576	0	0	0	0	0	10.7	.0
Dual Fired.....	843	153	21	21	21	21	30	8.4	.2
Nuclear.....	1,650	1,675	0	0	0	0	0	16.4	.0
Hydroelectric.....	428	530	512	0	0	0	0	4.3	.0
Independent Power Producers and Combined									
Heat and Power	298	363	9,770	11,859	11,791	12,402	12,420	3.0	99.4
Coal.....	69	60	4,752	4,586	4,897	4,957	4,958	.7	39.7
Petroleum.....	2	2	322	983	835	835	835	*	6.7
Natural Gas.....	0	0	478	406	338	972	969	.0	7.8
Other Gases.....	0	0	163	153	152	152	152	.0	1.2
Dual Fired.....	162	172	2,234	3,344	3,170	3,090	3,078	1.6	24.6
Nuclear.....	0	0	1,675	1,675	1,685	1,703	1,735	.0	13.9
Hydroelectric.....	0	0	19	530	530	566	566	.0	4.5
Other Renewables.....	65	129	128	183	183	127	127	.6	1.0
Total Electric Industry	10,056	11,321	10,523	11,930	11,859	12,472	12,499	100.0	100.0
Coal.....	4,045	4,696	4,752	4,586	4,897	4,957	4,958	40.2	39.7
Petroleum.....	1,784	1,389	542	1,033	883	885	885	17.7	7.1
Natural Gas.....	1,079	2,576	478	406	338	972	969	10.7	7.8
Other Gases.....	0	0	163	153	152	152	152	.0	1.2
Dual Fired.....	1,006	325	2,254	3,365	3,190	3,110	3,107	10.0	24.9
Nuclear.....	1,650	1,675	1,675	1,675	1,685	1,703	1,735	16.4	13.9
Hydroelectric.....	428	530	531	530	530	566	566	4.3	4.5
Other Renewables.....	65	129	128	183	183	127	127	.6	1.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Maryland									
Electric Utilities	31,497,406	44,658,945	31,783,195	88,150	30,734	51,722	30,023	95.0	0.1
Coal.....	23,299,412	27,369,905	20,353,004	0	0	0	0	70.3	.0
Petroleum.....	3,328,080	1,407,598	1,507,860	87,790	30,734	51,722	30,023	10.0	.1
Natural Gas.....	1,319,588	1,501,465	1,884,407	360	0	0	0	4.0	.0
Nuclear.....	1,251,416	12,937,971	6,323,940	0	0	0	0	3.8	.0
Hydroelectric.....	2,298,910	1,442,006	1,713,984	0	0	0	0	6.9	.0
Independent Power Producers and Combined									
Heat and Power	1,664,886	1,706,698	19,362,185	48,974,190	48,248,354	52,192,515	52,022,747	5.0	99.9
Coal.....	210,450	225,351	9,098,061	28,379,409	28,712,053	29,939,086	29,215,529	.6	56.1
Petroleum.....	243,192	71,871	880,735	2,933,849	2,251,698	3,520,461	3,265,890	.7	6.3
Natural Gas.....	202,855	47,419	968,469	1,760,452	2,214,431	1,195,643	1,183,005	.6	2.3
Other Gases.....	488,197	685,721	74,572	439,980	504,513	325,355	412,690	1.5	.8
Nuclear.....	0	0	7,503,303	13,656,267	12,128,005	13,690,713	14,580,260	.0	28.0
Hydroelectric.....	0	0	18,635	1,183,518	1,660,989	2,646,984	2,507,521	.0	4.8
Other Renewables.....	520,192	676,336	818,410	620,715	776,665	874,274	857,074	1.6	1.6
Other.....	0	0	0	0	0	0	777	.0	*
Total Electric Industry	33,162,292	46,365,643	51,145,380	49,062,340	48,279,088	52,244,237	52,052,770	100.0	100.0
Coal.....	23,509,862	27,595,256	29,451,065	28,379,409	28,712,053	29,939,086	29,215,529	70.9	56.1
Petroleum.....	3,571,272	1,479,469	2,388,595	3,021,639	2,282,432	3,572,183	3,295,913	10.8	6.3
Natural Gas.....	1,522,443	1,548,884	2,852,876	1,760,812	2,214,431	1,195,643	1,183,005	4.6	2.3
Other Gases.....	488,197	685,721	74,572	439,980	504,513	325,355	412,690	1.5	.8
Nuclear.....	1,251,416	12,937,971	13,827,243	13,656,267	12,128,005	13,690,713	14,580,260	3.8	28.0
Hydroelectric.....	2,298,910	1,442,006	1,732,619	1,183,518	1,660,989	2,646,984	2,507,521	6.9	4.8
Other Renewables.....	520,192	676,336	818,410	620,715	776,665	874,274	857,074	1.6	1.6
Other.....	0	0	0	0	0	0	777	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Maryland							
Coal (cents per million Btu).....	164.7	150.4	133.0	0.0	163.4	163.0	173.8
Average heat value (Btu per pound).....	12,734	12,965	12,945	0	12,971	12,708	12,653
Average sulfur Content (percent).....	1.4	1.1	1.2	.0	1.1	1.1	1.3
Petroleum (cents per million Btu).....	315.7	274.7	400.7	.0	375.0	533.5	551.6
Average heat value (Btu per gallon).....	149,603	150,163	150,182	0	148,567	148,564	149,417
Average sulfur Content (percent).....	1.2	.9	.9	.0	.6	.6	.5
Natural Gas (cents per million Btu).....	244.7	215.7	442.3	.0	416.3	536.9	552.5
Average heat value (Btu per cubic foot).....	1,042	1,039	1,044	0	1,042	1,047	1,048

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Maryland							
Sulfur Dioxide							
Coal	241	200	234	223	226	247	260
Petroleum.....	26	11	10	9	6	14	13
Natural Gas	*	*	*	0	*	*	*
Other.....	2	3	2	1	1	3	3
Total.....	270	213	247	232	233	264	276
Nitrogen Oxide							
Coal	91	85	70	62	65	61	55
Petroleum.....	7	2	3	3	2	4	4
Gas.....	3	2	3	2	2	1	1
Other.....	1	2	2	1	2	3	4
Total.....	102	92	79	68	71	69	62
Carbon Dioxide							
Coal	22,115	25,349	30,039	26,121	27,269	28,399	27,663
Petroleum.....	3,852	1,452	2,129	2,649	1,982	2,964	2,805
Gas.....	1,218	1,133	1,713	1,100	1,359	673	738
Geothermal.....	0	0	0	0	0	0	0
Other.....	82	128	153	150	587	595	593
Total.....	27,267	28,062	34,034	30,020	31,197	32,632	31,799

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Maryland									
Retail Sales (thousand megawatthours)									
Residential.....	19,102	22,234	23,949	24,294	25,489	26,671	27,952	38.6	41.8
Commercial	10,452	23,096	25,804	26,244	21,044	16,950	17,264	21.1	25.8
Industrial.....	19,308	10,057	10,066	10,177	20,875	27,176	21,195	39.0	31.7
Other	672	771	858	926	972	NA	NA	1.4	NA
Transportation.....	NA	NA	NA	NA	NA	461	481	NA	.7
Total.....	49,534	56,158	60,678	61,640	68,380	71,259	66,892	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,380	1,875	1,905	1,864	1,973	2,060	2,181	44.2	45.6
Commercial	702	1,596	1,691	1,669	1,328	1,178	1,304	22.5	27.3
Industrial.....	984	425	417	445	836	1,329	1,269	31.5	26.5
Other	56	68	76	87	92	NA	NA	1.8	NA
Transportation.....	NA	NA	NA	NA	NA	27	31	NA	.6
Total.....	3,121	3,964	4,089	4,066	4,229	4,594	4,785	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.22	8.43	7.95	7.67	7.74	7.72	7.80	NA	NA
Commercial	6.71	6.91	6.55	6.36	6.31	6.95	7.55	NA	NA
Industrial.....	5.10	4.23	4.14	4.37	4.01	4.89	5.99	NA	NA
Other	8.31	8.79	8.89	9.42	9.42	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	5.78	6.46	NA	NA
Total.....	6.30	7.06	6.74	6.60	6.18	6.45	7.15	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Maryland								
Number of Entities.....	4	5	NA	3	NA	11	4	27
Number of Retail Customers.....	2,049,057	35,688	NA	178,829	NA	62,303	NA	2,325,877
Retail Sales (thousand megawatthours)	48,395	748	NA	4,097	NA	13,652	NA	66,892
Percentage of Retail Sales	72.35	1.12	NA	6.13	NA	20.41	NA	100.00
Revenue from Retail Sales (million dollars)	3,500	54	NA	293	NA	724	214	4,785
Percentage of Revenue.....	73.14	1.13	NA	6.12	NA	15.14	4.47	100.00
Average Retail Price (cents/kWh).....	7.23	7.23	NA	7.15	NA	5.31	1.57	7.15

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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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 '*').

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Table 1. 2004 Summary Statistics

Item	Value	U.S. Rank
Massachusetts		
NERC Region(s).....		NPCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	14,002	26
Electric Utilities	981	44
Independent Power Producers & Combined Heat and Power	13,022	7
Net Generation (megawatthours).....	47,500,483	30
Electric Utilities	1,524,169	44
Independent Power Producers & Combined Heat and Power	45,976,314	9
Emissions (thousand metric tons)		
Sulfur Dioxide	76	29
Nitrogen Oxide	29	38
Carbon Dioxide	26,113	33
Sulfur Dioxide (lbs/MWh).....	3.5	33
Nitrogen Oxide (lbs/MWh).....	1.3	39
Carbon Dioxide (lbs/MWh).....	1,212	35
Total Retail Sales (megawatthours).....	56,142,019	25
Full Service Provider Sales (megawatthours).....	43,591,199	30
Deregulated Sales (megawatthours).....	12,550,820	9
Direct Use (megawatthours).....	2,455,540	18
Average Retail Price (cents/kWh).....	10.77	8

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Massachusetts			
1. Mystic Generating Station	Petroleum,Gas	Boston Generating LLC	1,945
2. Brayton Point.....	Gas,Petroleum,Coal	Dominion Energy New England, LLC	1,523
3. Canal	Gas,Petroleum	Mirant Canal LLC	1,112
4. Northfield Mountain.....	Pumped Storage	Northeast Generation Services Company	1,080
5. Salem Harbor.....	Petroleum,Coal	Dominion Energy New England, LLC	743
6. Pilgrim Nuclear Power Station	Nuclear	Entergy Nuclear Generation Co	685
7. Fore River Generating Station.....	Petroleum,Gas	Boston Generating LLC	668
8. Bear Swamp	Hydroelectric,Pumped Storage	U S Gen New England Inc	563
9. ANP Bellingham Energy Project.....	Gas	ANP Bellingham Energy Co	484
10. ANP Blackstone Energy Project.....	Gas	ANP Blackstone Energy Co	441

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Massachusetts						
1. Massachusetts Electric Co.....	Investor-Owned	15,841,372	8,411,461	5,835,212	1,594,699	0
2. Boston Edison Co.....	Investor-Owned	11,230,279	4,252,442	6,329,901	647,936	0
3. Constellation NewEnergy, Inc	Power Marketer	4,227,721	0	4,227,721	0	0
4. Western Massachusetts Elec Co	Investor-Owned	3,425,578	1,531,241	1,218,452	675,885	0
5. Commonwealth Electric Co	Investor-Owned	3,265,683	1,787,946	1,312,150	165,587	0
Total Sales, Top Five Providers.....		37,990,633	15,983,090	18,923,436	3,084,107	0
Percent of Total State Sales		68	81	73	31	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Massachusetts									
Electric Utilities	9,910	9,288	996	993	1,090	981	981	92.5	7.0
Coal.....	1,723	1,707	145	145	145	145	145	16.1	1.0
Petroleum.....	3,604	2,499	214	213	305	311	215	33.6	1.5
Natural Gas.....	118	778	115	115	27	2	0	1.1	.0
Dual Fired.....	1,784	1,775	476	475	569	479	578	16.6	4.1
Nuclear.....	831	669	0	0	0	0	0	7.8	.0
Hydroelectric	204	207	46	45	44	44	44	1.9	.3
Pumped Storage.....	1,647	1,653	0	0	0	0	0	15.4	.0
Independent Power Producers and Combined									
Heat and Power.....	807	1,709	11,355	10,849	11,069	12,895	13,022	7.5	93.0
Coal.....	18	31	1,451	1,501	1,545	1,515	1,578	.2	11.3
Petroleum.....	52	109	2,071	1,952	1,724	1,408	1,438	.5	10.3
Natural Gas.....	99	343	1,184	2,416	2,188	4,311	4,218	.9	30.1
Dual Fired.....	325	856	3,928	2,147	2,782	2,814	2,951	3.0	21.1
Nuclear.....	0	0	665	667	667	685	685	.0	4.9
Hydroelectric	57	58	209	199	207	217	217	.5	1.5
Other Renewables.....	256	313	351	315	305	305	293	2.4	2.1
Pumped Storage.....	0	0	1,495	1,652	1,652	1,643	1,643	.0	11.7
Total Electric Industry	10,716	10,997	12,351	11,842	12,159	13,877	14,002	100.0	100.0
Coal.....	1,741	1,738	1,596	1,645	1,689	1,659	1,723	16.2	12.3
Petroleum.....	3,656	2,608	2,285	2,166	2,029	1,718	1,652	34.1	11.8
Natural Gas.....	216	1,121	1,299	2,532	2,215	4,314	4,218	2.0	30.1
Dual Fired.....	2,108	2,632	4,403	2,621	3,351	3,292	3,529	19.7	25.2
Nuclear.....	831	669	665	667	667	685	685	7.8	4.9
Hydroelectric	261	265	255	244	251	261	260	2.4	1.9
Other Renewables.....	256	312	353	315	305	305	293	2.4	2.1
Pumped Storage.....	1,647	1,653	1,495	1,652	1,652	1,643	1,643	15.4	11.7

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Massachusetts									
Electric Utilities	36,478,610	26,971,667	1,704,653	1,566,491	1,156,651	2,055,622	1,524,169	91.6	3.2
Coal.....	11,273,069	10,586,608	1,094,848	1,096,681	0	1,074,514	903,789	28.3	1.9
Petroleum.....	14,556,403	5,848,663	123,931	131,797	220,435	517,767	290,865	36.6	.6
Natural Gas.....	5,279,993	6,206,477	307,009	218,432	728,570	234,942	98,542	13.3	.2
Nuclear.....	5,069,620	4,485,845	0	0	0	0	0	12.7	.0
Hydroelectric.....	969,108	650,277	299,933	119,581	207,646	228,399	230,973	2.4	.5
Pumped Storage.....	-669,583	-806,203	-121,068	0	0	0	0	-1.7	.0
Independent Power Producers and Combined									
Heat and Power	3,332,401	10,682,814	36,993,228	36,911,943	40,859,037	46,329,402	45,976,313	8.4	96.8
Coal.....	92,824	111,655	10,059,424	9,954,652	11,502,861	9,821,976	9,622,699	.2	20.3
Petroleum.....	545,389	302,832	8,638,738	8,379,775	6,579,859	6,941,271	7,210,494	1.4	15.2
Natural Gas.....	852,709	8,028,533	10,400,063	11,478,572	15,140,404	22,188,989	20,911,003	2.1	44.0
Other Gases.....	830	0	0	0	0	0	0	*	.0
Nuclear.....	0	0	5,512,255	5,144,033	5,768,766	4,977,955	5,938,600	.0	12.5
Hydroelectric.....	280,134	218,372	765,226	582,924	655,301	846,783	767,308	.7	1.6
Other Renewables.....	1,560,515	2,021,422	2,196,818	2,083,336	2,050,777	2,051,084	2,024,535	3.9	4.3
Pumped Storage.....	0	0	-579,296	-711,349	-842,801	-510,929	-498,326	.0	-1.0
Other.....	0	0	0	0	3,869	12,273	0	.0	.0
Total Electric Industry	39,811,011	37,654,481	38,697,881	38,478,434	42,015,689	48,385,024	47,500,483	100.0	100.0
Coal.....	11,365,893	10,698,263	11,154,272	11,051,333	11,502,861	10,896,490	10,526,488	28.5	22.2
Petroleum.....	15,101,792	6,151,495	8,762,669	8,511,572	6,800,294	7,459,038	7,501,359	37.9	15.8
Natural Gas.....	6,132,702	14,235,010	10,707,072	11,697,004	15,868,974	22,423,931	21,009,545	15.4	44.2
Other Gases.....	830	0	0	0	0	0	0	*	.0
Nuclear.....	5,069,620	4,485,845	5,512,255	5,144,033	5,768,766	4,977,955	5,938,600	12.7	12.5
Hydroelectric.....	1,249,242	868,649	1,065,159	702,505	862,947	1,075,182	998,281	3.1	2.1
Other Renewables.....	1,560,515	2,021,422	2,196,818	2,083,336	2,050,777	2,051,084	2,024,535	3.9	4.3
Pumped Storage.....	-669,583	-806,203	-700,364	-711,349	-842,801	-510,929	-498,326	-1.7	-1.0
Other.....	0	0	0	0	3,869	12,273	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Massachusetts							
Coal (cents per million Btu).....	173.4	167.9	174.7	0.0	W	W	196.9
Average heat value (Btu per pound).....	13,062	12,698	13,137	0	12,501	12,200	11,793
Average sulfur Content (percent).....	1.2	.7	1.0	.0	.7	1.1	.5
Petroleum (cents per million Btu).....	286.4	258.7	553.3	494.0	354.9	462.8	450.1
Average heat value (Btu per gallon).....	150,311	151,624	143,298	150,167	150,202	149,850	148,871
Average sulfur Content (percent).....	1.7	1.0	.3	.3	.9	.8	.8
Natural Gas (cents per million Btu).....	240.1	200.6	443.7	347.5	351.4	534.4	638.7
Average heat value (Btu per cubic foot).....	1,052	1,026	1,037	1,036	1,019	1,032	1,035

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Massachusetts							
Sulfur Dioxide							
Coal	91	51	59	53	52	48	41
Petroleum.....	120	32	45	43	32	34	35
Natural Gas	*	*	*	*	*	*	*
Other.....	1	1	1	1	1	*	*
Total.....	212	83	105	97	85	82	76
Nitrogen Oxide							
Coal	44	28	20	19	18	15	14
Petroleum.....	22	7	9	9	7	6	6
Gas.....	8	15	4	4	5	4	3
Other.....	3	3	4	4	4	6	6
Total.....	76	54	37	35	33	33	29
Carbon Dioxide							
Coal	10,179	9,679	10,459	10,025	10,722	9,976	9,618
Petroleum.....	12,344	5,393	7,346	7,330	5,696	6,390	6,153
Gas.....	3,656	7,486	5,485	5,912	7,452	9,576	9,056
Geothermal.....	0	0	0	0	0	0	0
Other.....	306	362	355	360	1,214	1,256	1,286
Total.....	26,485	22,921	23,645	23,627	25,084	27,197	26,113

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Massachusetts									
Retail Sales (thousand megawatthours)									
Residential.....	15,581	15,993	17,562	17,984	18,695	19,591	19,769	34.3	35.2
Commercial	18,565	19,894	23,033	24,127	24,250	25,648	26,020	40.9	46.3
Industrial.....	10,157	10,026	10,533	9,757	10,087	9,984	9,947	22.4	17.7
Other	1,138	598	644	629	676	NA	NA	2.5	NA
Transportation.....	NA	NA	NA	NA	NA	292	406	NA	.7
Total.....	45,442	46,510	51,773	52,496	53,708	55,514	56,142	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,505	1,800	1,850	2,243	2,043	2,272	2,323	37.4	38.4
Commercial	1,590	1,976	2,102	2,807	2,430	2,687	2,858	39.6	47.3
Industrial.....	802	843	864	915	841	891	844	20.0	14.0
Other	124	86	99	98	89	NA	NA	3.1	NA
Transportation.....	NA	NA	NA	NA	NA	12	19	NA	.3
Total.....	4,020	4,705	4,914	6,062	5,404	5,862	6,045	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.66	11.26	10.53	12.47	10.93	11.60	11.75	NA	NA
Commercial	8.56	9.93	9.13	11.64	10.02	10.48	10.98	NA	NA
Industrial.....	7.89	8.41	8.20	9.37	8.34	8.93	8.48	NA	NA
Other	10.90	14.31	15.32	15.52	13.11	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	4.09	4.65	NA	NA
Total.....	8.85	10.11	9.49	11.55	10.06	10.56	10.77	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	7	42	NA	NA	1	11	10	71
Number of Retail Customers.....	2,495,058	386,293	NA	NA	16	74,120	NA	2,955,487
Retail Sales (thousand megawatthours).....	35,547	7,740	NA	NA	304	12,551	NA	56,142
Percentage of Retail Sales.....	63.32	13.79	NA	NA	.54	22.36	NA	100.00
Revenue from Retail Sales (million dollars).....	4,063	748	NA	NA	27	694	512	6,045
Percentage of Revenue.....	67.22	12.38	NA	NA	.45	11.48	8.46	100.00
Average Retail Price (cents/kWh).....	11.43	9.67	NA	NA	8.89	5.53	4.08	10.77

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Michigan		
NERC Region(s).....		ECAR/MAPP/MAIN
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	30,447	10
Electric Utilities	23,314	7
Independent Power Producers & Combined Heat and Power	7,134	16
Net Generation (megawatthours).....	118,487,269	12
Electric Utilities	99,608,512	7
Independent Power Producers & Combined Heat and Power	18,878,757	16
Emissions (thousand metric tons)		
Sulfur Dioxide.....	351	12
Nitrogen Oxide.....	121	10
Carbon Dioxide.....	77,206	11
Sulfur Dioxide (lbs/MWh).....	6.5	17
Nitrogen Oxide (lbs/MWh).....	2.2	28
Carbon Dioxide (lbs/MWh).....	1,437	23
Total Retail Sales (megawatthours).....	106,606,040	10
Full Service Provider Sales (megawatthours).....	92,614,753	13
Deregulated Sales (megawatthours).....	13,991,287	6
Direct Use (megawatthours).....	2,922,287	16
Average Retail Price (cents/kWh).....	6.94	25

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Michigan			
1. Monroe.....	Petroleum,Coal	Detroit Edison Co	3,094
2. Donald C Cook	Nuclear	Indiana Michigan Power Co	2,093
3. Ludington.....	Pumped Storage	Consumers Energy Co	1,872
4. Midland Cogeneration Venture.....	Petroleum,Gas	Midland Cogeneration Venture	1,821
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.....	Gas	Covert Generating Co LLC	1,058

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Michigan						
1. Detroit Edison Co.....	Investor-Owned	39,978,034	15,081,590	13,424,847	11,471,597	0
2. Consumers Energy Co.....	Investor-Owned	33,039,318	12,346,200	10,997,741	9,695,377	0
3. Quest Energy LLC.....	Power Marketer	4,043,530	0	2,162,370	1,881,160	0
4. Wisconsin Electric Power Co.....	Investor-Owned	3,070,726	166,584	150,517	2,753,625	0
5. Indiana Michigan Power Co.....	Investor-Owned	2,973,957	1,145,732	754,668	1,073,557	0
Total Sales, Top Five Providers.....		83,105,565	28,740,106	27,490,143	26,875,316	0
Percent of Total State Sales.....		78	87	71	77	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Michigan									
Electric Utilities	22,315	21,981	22,752	22,831	23,279	23,345	23,314	89.2	76.6
Coal.....	11,931	11,794	11,636	11,638	11,627	11,636	11,623	47.7	38.2
Petroleum.....	2,524	2,370	1,741	1,771	1,567	1,598	815	10.1	2.7
Natural Gas.....	404	405	2,027	2,104	2,132	2,184	2,490	1.6	8.2
Other Gases.....	10	10	0	0	0	0	0	*	.0
Dual Fired.....	1,235	1,276	1,307	1,288	1,913	1,867	2,326	4.9	7.6
Nuclear.....	4,007	3,989	3,930	3,931	3,938	3,971	3,971	16.0	13.0
Hydroelectric.....	331	263	238	228	229	218	217	1.3	.7
Other Renewables.....	0	0	1	0	0	0	0	.0	.0
Pumped Storage.....	1,872	1,872	1,872	1,872	1,872	1,872	1,872	7.5	6.1
Independent Power Producers and Combined									
Heat and Power	2,690	2,924	3,027	4,053	6,057	7,104	7,134	10.8	23.4
Coal.....	676	654	330	291	354	354	354	2.7	1.2
Petroleum.....	0	2	9	9	43	46	64	.0	.2
Natural Gas.....	1,296	1,764	2,171	3,256	5,157	6,220	6,228	5.2	20.5
Dual Fired.....	459	76	24	17	86	89	92	1.8	.3
Hydroelectric.....	27	26	28	25	28	28	28	.1	.1
Other Renewables.....	232	403	466	455	388	369	368	.9	1.2
Total Electric Industry	25,005	24,906	25,779	26,884	29,335	30,450	30,447	100.0	100.0
Coal.....	12,608	12,449	11,965	11,929	11,981	11,989	11,976	50.4	39.3
Petroleum.....	2,525	2,373	1,750	1,779	1,610	1,644	879	10.1	2.9
Natural Gas.....	1,699	2,169	4,198	5,360	7,289	8,404	8,718	6.8	28.6
Other Gases.....	10	10	0	0	0	0	0	*	.0
Dual Fired.....	1,694	1,353	1,332	1,305	2,000	1,957	2,418	6.8	7.9
Nuclear.....	4,007	3,989	3,930	3,931	3,938	3,971	3,971	16.0	13.0
Hydroelectric.....	357	288	265	253	257	245	245	1.4	.8
Other Renewables.....	232	402	467	455	388	368	367	.9	1.2
Pumped Storage.....	1,872	1,872	1,872	1,872	1,872	1,872	1,872	7.5	6.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Michigan									
Electric Utilities	89,058,681	92,478,772	89,572,141	97,067,330	100,451,718	96,634,055	99,608,512	89.0	84.1
Coal.....	65,295,742	65,425,002	66,980,252	66,931,691	65,389,899	66,448,916	67,253,690	65.3	56.8
Petroleum.....	689,461	687,264	993,932	724,313	1,090,767	883,847	714,881	.7	.6
Natural Gas.....	665,142	1,163,390	2,441,140	2,362,038	2,336,031	1,098,627	735,011	.7	.6
Other Gases.....	0	0	0	0	0	0	1,082	.0	*
Nuclear.....	21,610,500	24,448,397	18,882,432	26,710,782	31,087,454	27,953,563	30,561,961	21.6	25.8
Hydroelectric.....	1,492,822	1,486,539	1,328,083	1,450,093	1,557,942	1,242,987	1,420,178	1.5	1.2
Other Renewables.....	0	0	0	15,250	25,185	23,361	34,693	.0	*
Pumped Storage.....	-694,986	-731,820	-1,053,698	-1,126,837	-1,035,560	-1,017,246	-1,112,984	-.7	-.9
Independent Power Producers and Combined									
Heat and Power	11,001,056	14,965,840	14,637,453	14,778,280	17,437,369	14,713,004	18,878,758	11.0	15.9
Coal.....	1,771,128	1,775,643	1,286,747	1,331,473	1,309,609	1,328,567	1,368,022	1.8	1.2
Petroleum.....	172,264	167,990	195,331	25,574	12,718	180,046	178,619	.2	.2
Natural Gas.....	7,172,814	10,411,464	10,166,124	10,811,473	13,517,387	10,275,917	14,370,729	7.2	12.1
Other Gases.....	340,949	1,430	0	5,614	10,108	2,193	39,331	.3	*
Hydroelectric.....	135,096	110,647	99,596	111,830	111,310	142,837	119,406	.1	.1
Other Renewables.....	1,408,805	2,483,380	2,889,594	2,492,295	2,476,219	2,783,445	2,802,579	1.4	2.4
Other.....	0	15,286	61	21	18	0	70	.0	.0
Total Electric Industry	100,059,737	107,444,612	104,209,594	111,845,610	117,889,087	111,347,060	118,487,269	100.0	100.0
Coal.....	67,066,870	67,200,645	68,266,999	68,263,164	66,699,508	67,777,483	68,621,712	67.0	57.9
Petroleum.....	861,725	855,254	1,189,263	749,887	1,103,485	1,063,893	893,500	.9	.8
Natural Gas.....	7,837,956	11,574,854	12,607,264	13,173,511	15,853,418	11,374,544	15,105,740	7.8	12.7
Other Gases.....	340,949	1,430	0	5,614	10,108	2,193	40,413	.3	*
Nuclear.....	21,610,500	24,448,397	18,882,432	26,710,782	31,087,454	27,953,563	30,561,961	21.6	25.8
Hydroelectric.....	1,627,918	1,597,186	1,427,679	1,561,923	1,669,252	1,385,824	1,539,584	1.6	1.3
Other Renewables.....	1,408,805	2,483,380	2,889,594	2,507,545	2,501,404	2,806,806	2,837,272	1.4	2.4
Pumped Storage.....	-694,986	-731,820	-1,053,698	-1,126,837	-1,035,560	-1,017,246	-1,112,984	-.7	-.9
Other.....	0	15,286	61	21	18	0	70	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Michigan							
Coal (cents per million Btu).....	159.9	144.9	130.4	127.5	W	134.5	138.8
Average heat value (Btu per pound).....	11,131	10,677	10,425	10,236	9,991	10,123	9,967
Average sulfur Content (percent).....	.7	.6	.6	.6	.6	.6	.5
Petroleum (cents per million Btu).....	320.2	288.2	368.1	398.0	273.8	W	W
Average heat value (Btu per gallon).....	146,014	146,081	136,585	148,976	146,871	146,845	146,540
Average sulfur Content (percent).....	.7	.8	1.5	1.4	1.9	1.7	1.4
Natural Gas (cents per million Btu).....	210.6	199.5	389.9	382.5	352.1	386.2	436.4
Average heat value (Btu per cubic foot).....	224	365	710	992	1,007	1,015	1,018

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Michigan							
Sulfur Dioxide							
Coal	363	358	359	342	336	335	322
Petroleum.....	16	21	23	2	4	24	24
Natural Gas	*	*	*	*	*	*	*
Other.....	4	4	3	4	3	5	6
Total.....	383	383	385	348	343	364	351
Nitrogen Oxide							
Coal	295	283	154	138	129	117	108
Petroleum.....	2	2	2	1	1	3	3
Gas.....	11	15	12	14	14	5	4
Other.....	2	4	5	5	5	5	6
Total.....	311	304	173	158	149	130	121
Carbon Dioxide							
Coal	64,434	65,989	67,248	67,004	64,422	65,246	67,182
Petroleum.....	1,208	1,366	1,705	778	1,067	1,478	1,418
Gas.....	5,214	7,066	7,226	7,495	8,256	5,968	8,057
Geothermal.....	0	0	0	0	0	0	0
Other.....	73	105	125	56	578	586	549
Total.....	70,929	74,526	76,304	75,333	74,323	73,278	77,206

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Michigan									
Retail Sales (thousand megawatthours)									
Residential.....	25,319	28,623	30,707	32,305	34,336	33,669	33,104	30.7	31.1
Commercial	20,610	31,306	35,867	35,025	35,880	35,391	38,632	25.0	36.2
Industrial.....	35,062	33,921	37,268	34,174	33,537	39,813	34,867	42.6	32.7
Other	1,376	852	930	905	960	NA	NA	1.7	NA
Transportation.....	NA	NA	NA	NA	NA	3	3	NA	.0
Total.....	82,367	94,701	104,772	102,409	104,714	108,877	106,606	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,982	2,387	2,618	2,667	2,845	2,813	2,759	33.9	37.3
Commercial	1,679	2,462	2,832	2,640	2,794	2,672	2,925	28.7	39.5
Industrial.....	2,051	1,739	1,898	1,738	1,684	1,976	1,717	35.1	23.2
Other	137	91	100	94	100	NA	NA	2.3	NA
Total.....	5,850	6,679	7,449	7,139	7,423	7,461	7,401	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.83	8.34	8.52	8.26	8.28	8.35	8.33	NA	NA
Commercial	8.14	7.86	7.90	7.54	7.79	7.55	7.57	NA	NA
Industrial.....	5.85	5.13	5.09	5.08	5.02	4.96	4.92	NA	NA
Other	9.98	10.71	10.77	10.38	10.43	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	8.21	7.89	NA	NA
Total.....	7.10	7.05	7.11	6.97	7.09	6.85	6.94	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Michigan								
Number of Entities.....	9	41	NA	10	2	13	2	77
Number of Retail Customers.....	4,167,562	301,014	NA	282,828	2	16,591	NA	4,767,997
Retail Sales (thousand megawatthours)	81,254	7,952	NA	2,892	518	13,991	NA	106,606
Percentage of Retail Sales	76.22	7.46	NA	2.71	.49	13.12	NA	100.00
Revenue from Retail Sales (million dollars)	5,686	543	NA	259	24	686	202	7,401
Percentage of Revenue.....	76.83	7.33	NA	3.50	.33	9.28	2.73	100.00
Average Retail Price (cents/kWh).....	7.00	6.82	NA	8.96	4.69	4.91	1.44	6.94

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Minnesota		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	11,551	30
Electric Utilities	10,179	23
Independent Power Producers & Combined Heat and Power	1,372	38
Net Generation (megawatthours).....	52,364,127	25
Electric Utilities	47,232,462	21
Independent Power Producers & Combined Heat and Power	5,131,665	33
Emissions (thousand metric tons)		
Sulfur Dioxide	108	24
Nitrogen Oxide	90	15
Carbon Dioxide	37,605	26
Sulfur Dioxide (lbs/MWh).....	4.5	25
Nitrogen Oxide (lbs/MWh).....	3.8	10
Carbon Dioxide (lbs/MWh).....	1,583	19
Total Retail Sales (megawatthours).....	63,340,315	24
Full Service Provider Sales (megawatthours).....	63,340,315	22
Direct Use (megawatthours).....	2,931,271	15
Average Retail Price (cents/kWh).....	6.24	36

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Minnesota			
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	918
4. Allen S King	Gas,Petroleum,Coal	Northern States Power Co	573
5. Monticello.....	Nuclear	Northern States Power Co	569
6. Black Dog.....	Petroleum,Gas,Coal	Northern States Power Co	566
7. Lakefield Junction.....	Petroleum,Gas	Great River Energy	515
8. Pleasant Valley.....	Petroleum,Gas	Great River Energy	427
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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Minnesota						
1. Northern States Power Co.....	Investor-Owned	30,403,203	8,289,361	12,613,671	9,489,401	10,770
2. Minnesota Power Inc.....	Investor-Owned	8,903,621	967,785	1,236,952	6,698,884	0
3. Otter Tail Power Co.....	Investor-Owned	1,955,812	502,139	1,027,828	425,845	0
4. Anoka Electric Coop	Cooperative	1,798,419	1,042,616	630,521	125,282	0
5. Dakota Electric Assn.....	Cooperative	1,675,150	859,923	70,553	744,674	0
Total Sales, Top Five Providers.....		44,736,205	11,661,824	15,579,525	17,484,086	10,770
Percent of Total State Sales		71	57	76	78	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Minnesota									
Electric Utilities	8,834	8,923	9,067	10,110	10,329	10,162	10,179	93.9	88.1
Coal.....	5,757	5,630	5,613	5,729	5,726	5,342	5,260	61.2	45.5
Petroleum.....	844	909	945	975	943	581	593	9.0	5.1
Natural Gas.....	131	240	284	429	294	539	666	1.4	5.8
Dual Fired.....	335	349	264	1,020	1,420	1,826	1,776	3.6	15.4
Nuclear.....	1,540	1,571	1,646	1,646	1,646	1,613	1,613	16.4	14.0
Hydroelectric	137	142	136	132	134	133	133	1.5	1.2
Other Renewables.....	88	82	178	179	166	129	138	.9	1.2
Independent Power Producers and Combined									
Heat and Power	579	628	1,187	965	958	1,323	1,372	6.2	11.9
Coal.....	348	345	354	157	158	358	361	3.7	3.1
Petroleum.....	14	23	25	29	29	26	27	.1	.2
Natural Gas.....	37	32	131	145	133	133	130	.4	1.1
Dual Fired.....	18	20	179	173	172	172	174	.2	1.5
Hydroelectric	60	64	64	42	42	43	43	.6	.4
Other Renewables.....	102	145	436	410	412	579	626	1.1	5.4
Other	0	0	0	11	11	11	11	.0	.1
Total Electric Industry	9,412	9,551	10,255	11,075	11,287	11,485	11,551	100.0	100.0
Coal.....	6,105	5,975	5,967	5,886	5,885	5,701	5,621	64.9	48.7
Petroleum.....	858	932	970	1,005	973	607	620	9.1	5.4
Natural Gas.....	168	272	415	573	427	672	797	1.8	6.9
Dual Fired.....	353	369	443	1,193	1,592	1,998	1,950	3.8	16.9
Nuclear.....	1,540	1,571	1,646	1,646	1,646	1,613	1,613	16.4	14.0
Hydroelectric	197	206	200	173	176	176	176	2.1	1.5
Other Renewables.....	190	227	614	588	578	708	763	2.0	6.6
Other	0	0	0	11	11	11	11	.0	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Minnesota									
Electric Utilities	41,549,628	42,502,869	46,615,673	44,798,014	48,568,719	49,576,276	47,232,462	96.5	90.2
Coal.....	27,587,603	26,820,765	31,731,081	31,037,544	32,200,713	33,157,032	31,477,117	64.1	60.1
Petroleum.....	440,740	484,708	440,264	599,557	640,129	845,239	752,362	1.0	1.4
Natural Gas.....	326,083	702,702	433,177	371,643	897,018	1,072,867	923,557	.8	1.8
Nuclear.....	12,139,302	13,243,469	12,959,976	11,789,027	13,684,824	13,413,828	13,295,502	28.2	25.4
Hydroelectric.....	657,574	822,599	635,541	619,404	736,795	686,227	549,598	1.5	1.0
Other Renewables.....	398,326	428,626	415,634	380,839	409,240	401,083	234,326	.9	.4
Independent Power Producers and Combined Heat and Power	1,520,748	2,668,015	4,807,666	3,725,212	4,209,248	5,474,720	5,131,665	3.5	9.8
Coal.....	588,677	1,243,174	2,017,007	781,619	1,719,496	2,498,497	2,538,896	1.4	4.8
Petroleum.....	7,074	10,118	34,513	25,499	12,662	27,826	28,418	*	.1
Natural Gas.....	213,756	327,705	831,844	827,934	694,936	771,569	583,855	.5	1.1
Hydroelectric.....	199,472	275,526	295,842	212,214	72,289	128,346	188,713	.5	.4
Other Renewables.....	511,769	811,492	1,628,460	1,877,946	1,667,855	2,009,833	1,706,358	1.2	3.3
Other.....	0	0	0	0	42,010	38,650	85,425	.0	.2
Total Electric Industry	43,070,376	45,170,884	51,423,339	48,523,226	52,777,965	55,050,995	52,364,127	100.0	100.0
Coal.....	28,176,280	28,063,939	33,748,088	31,819,163	33,920,209	35,655,529	34,016,013	65.4	65.0
Petroleum.....	447,814	494,826	474,777	625,056	652,791	873,065	780,780	1.0	1.5
Natural Gas.....	539,839	1,030,407	1,265,021	1,199,577	1,591,954	1,844,436	1,507,412	1.3	2.9
Nuclear.....	12,139,302	13,243,469	12,959,976	11,789,027	13,684,824	13,413,828	13,295,502	28.2	25.4
Hydroelectric.....	857,046	1,098,125	931,383	831,618	809,084	814,573	738,311	2.0	1.4
Other Renewables.....	910,095	1,240,118	2,044,094	2,258,785	2,077,095	2,410,916	1,940,684	2.1	3.7
Other.....	0	0	0	0	42,010	38,650	85,425	.0	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Minnesota							
Coal (cents per million Btu).....	125.2	114.0	111.1	101.8	W	W	W
Average heat value (Btu per pound).....	8,788	8,828	8,929	8,932	8,818	8,895	8,914
Average sulfur Content (percent).....	.5	.5	.4	.5	.4	.5	.4
Petroleum (cents per million Btu).....	92.5	85.0	53.5	65.5	60.1	W	W
Average heat value (Btu per gallon).....	73,720	73,310	72,532	132,857	131,276	133,093	134,967
Average sulfur Content (percent).....	5.2	5.1	5.2	5.4	5.8	5.7	5.4
Natural Gas (cents per million Btu).....	192.1	176.1	448.6	520.8	W	W	W
Average heat value (Btu per cubic foot).....	1,003	1,006	1,011	1,010	1,006	1,007	1,008

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Minnesota							
Sulfur Dioxide							
Coal	95	102	90	99	105	83	87
Petroleum.....	*	*	12	*	*	27	17
Natural Gas	0	0	0	0	0	*	*
Other.....	6	8	4	4	2	3	4
Total.....	102	111	106	104	107	113	108
Nitrogen Oxide							
Coal	156	165	91	83	86	86	82
Petroleum.....	*	*	1	*	*	3	2
Gas.....	2	3	2	2	2	2	1
Other.....	3	4	4	2	2	4	4
Total.....	161	172	97	87	90	94	90
Carbon Dioxide							
Coal	29,757	31,814	35,507	34,168	34,987	37,048	35,287
Petroleum.....	84	526	754	687	653	881	825
Gas.....	767	1,141	1,160	1,078	1,157	1,220	1,133
Geothermal.....	0	0	0	0	0	0	0
Other.....	593	52	46	47	493	487	360
Total.....	31,202	33,533	37,467	35,979	37,291	39,637	37,605

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Minnesota									
Retail Sales (thousand megawatthours)									
Residential.....	14,858	16,974	18,629	19,400	20,451	20,638	20,507	31.5	32.4
Commercial	8,086	9,700	11,580	19,799	19,457	20,533	20,407	17.1	32.2
Industrial.....	23,497	26,577	28,842	20,767	21,515	21,916	22,415	49.8	35.4
Other	727	707	730	721	740	NA	NA	1.5	NA
Transportation.....	NA	NA	NA	NA	NA	0	11	NA	.0
Total.....	47,167	53,959	59,782	60,687	62,162	63,087	63,340	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,011	1,217	1,400	1,476	1,531	1,579	1,624	40.2	41.1
Commercial	483	601	736	1,193	1,143	1,257	1,287	19.2	32.6
Industrial.....	973	1,143	1,319	902	875	955	1,038	38.7	26.3
Other	49	51	56	54	54	NA	NA	1.9	NA
Transportation.....	NA	NA	NA	NA	NA	0	1	NA	.0
Total.....	2,516	3,011	3,511	3,626	3,604	3,791	3,950	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.80	7.17	7.51	7.61	7.49	7.65	7.92	NA	NA
Commercial	5.98	6.19	6.35	6.03	5.88	6.12	6.31	NA	NA
Industrial.....	4.14	4.30	4.57	4.34	4.07	4.36	4.63	NA	NA
Other	6.72	7.21	7.60	7.43	7.36	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	.00	6.75	NA	NA
Total.....	5.33	5.58	5.87	5.97	5.80	6.01	6.24	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Minnesota								
Number of Entities.....	5	125	1	46	NA	NA	NA	177
Number of Retail Customers.....	1,427,978	343,402	5	695,952	NA	NA	NA	2,467,337
Retail Sales (thousand megawatthours).....	42,051	8,906	51	12,332	NA	NA	NA	63,340
Percentage of Retail Sales.....	66.39	14.06	.08	19.47	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	2,482	564	1	904	NA	NA	NA	3,950
Percentage of Revenue.....	62.83	14.28	.02	22.88	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.90	6.33	1.48	7.33	NA	NA	NA	6.24

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Mississippi		
NERC Region(s).....		SERC/SPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	17,019	23
Electric Utilities	9,015	27
Independent Power Producers & Combined Heat and Power	8,005	13
Net Generation (megawatthours).....	43,662,613	33
Electric Utilities	32,838,145	31
Independent Power Producers & Combined Heat and Power	10,824,468	26
Emissions (thousand metric tons)		
Sulfur Dioxide.....	90	26
Nitrogen Oxide.....	49	32
Carbon Dioxide.....	25,295	35
Sulfur Dioxide (lbs/MWh).....	4.5	24
Nitrogen Oxide (lbs/MWh).....	2.5	24
Carbon Dioxide (lbs/MWh).....	1,277	32
Total Retail Sales (megawatthours).....	46,032,538	28
Full Service Provider Sales (megawatthours).....	46,032,538	27
Direct Use (megawatthours).....	2,385,239	21
Average Retail Price (cents/kWh).....	7.00	22

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Mississippi			
1. Victor J Daniel Jr.....	Petroleum,Gas,Coal	Mississippi Power Co	2,136
2. Grand Gulf.....	Nuclear	Entergy Operations Inc	1,270
3. Baxter Wilson.....	Gas,Petroleum	Entergy Mississippi Inc	1,190
4. Jack Watson.....	Petroleum,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 Power 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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Mississippi						
1. Entergy Mississippi Inc.....	Investor-Owned	12,977,759	5,084,819	4,916,155	2,976,785	0
2. Mississippi Power Co.....	Investor-Owned	9,542,458	2,297,110	3,010,058	4,235,290	0
3. Tennessee Valley Authority.....	Federal	3,202,841	0	0	3,202,841	0
4. Southern Pine Elec Pwr Assn.....	Cooperative	1,844,927	906,476	262,515	675,936	0
5. Coast Electric Power Assn.....	Cooperative	1,517,931	1,013,879	263,533	240,519	0
Total Sales, Top Five Providers.....		29,085,916	9,302,284	8,452,261	11,331,371	0
Percent of Total State Sales.....		63	53	66	72	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Mississippi									
Electric Utilities	7,016	7,170	7,057	7,964	8,888	9,278	9,015	95.2	53.0
Coal.....	2,244	2,255	2,208	2,208	2,225	2,231	2,220	30.4	13.0
Petroleum.....	31	31	60	54	36	36	32	.4	.2
Natural Gas.....	487	685	654	1,582	2,180	2,570	2,098	6.6	12.3
Dual Fired.....	3,112	3,025	2,925	2,910	3,216	3,179	3,395	42.2	19.9
Nuclear.....	1,142	1,173	1,210	1,210	1,231	1,263	1,270	15.5	7.5
Independent Power Producers and Combined									
Heat and Power	355	367	1,958	3,121	4,804	8,005	8,005	4.8	47.0
Coal.....	0	0	0	0	440	440	440	.0	2.6
Petroleum.....	0	1	6	6	0	0	0	.0	.0
Natural Gas.....	61	72	1,690	2,860	4,080	7,282	7,332	.8	43.1
Other Gases.....	0	0	0	0	4	4	4	.0	*
Other Renewables.....	294	294	263	255	279	279	229	4.0	1.3
Total Electric Industry	7,371	7,536	9,015	11,084	13,691	17,282	17,019	100.0	100.0
Coal.....	2,244	2,255	2,208	2,208	2,665	2,671	2,660	30.4	15.6
Petroleum.....	31	32	66	60	36	36	32	.4	.2
Natural Gas.....	548	756	2,344	4,442	6,260	9,850	9,429	7.4	55.4
Other Gases.....	0	0	0	0	4	4	4	.0	*
Dual Fired.....	3,112	3,025	2,925	2,910	3,216	3,179	3,395	42.2	19.9
Nuclear.....	1,142	1,173	1,210	1,210	1,231	1,263	1,270	15.5	7.5
Other Renewables.....	294	294	263	255	279	279	229	4.0	1.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Mississippi									
Electric Utilities	22,923,971	26,395,165	33,896,003	47,550,273	35,099,283	31,358,938	32,838,145	91.0	75.2
Coal.....	9,445,584	9,259,980	13,877,065	19,196,065	12,483,658	13,742,273	14,274,786	37.5	32.7
Petroleum.....	705,474	23,738	2,970,676	5,120,602	26,357	1,620,395	2,763,630	2.8	6.3
Natural Gas.....	5,350,782	9,098,126	6,353,707	13,309,724	12,529,809	5,093,814	5,566,963	21.2	12.8
Nuclear.....	7,422,131	8,013,321	10,694,555	9,923,882	10,059,459	10,902,456	10,232,766	29.5	23.4
Independent Power Producers and Combined									
Heat and Power	2,277,446	2,585,696	3,718,560	5,896,179	7,801,658	8,789,340	10,824,468	9.0	24.8
Coal.....	80,943	64,972	0	0	2,369,485	3,340,331	3,202,897	.3	7.3
Petroleum.....	33,497	14,042	10,854	23,088	3,945	11,461	34,038	.1	.1
Natural Gas.....	568,882	623,044	2,027,402	4,440,828	4,441,588	4,383,419	6,065,043	2.3	13.9
Other Gases.....	0	0	0	0	37,916	31,799	40,760	.0	.1
Hydroelectric.....	0	0	0	0	12,129	0	0	.0	.0
Other Renewables.....	1,594,124	1,883,638	1,680,304	1,432,263	936,595	1,022,331	1,481,730	6.3	3.4
Total Electric Industry	25,201,417	28,980,861	37,614,563	53,446,452	42,900,941	40,148,278	43,662,613	100.0	100.0
Coal.....	9,526,527	9,324,952	13,877,065	19,196,065	14,853,143	17,082,604	17,477,683	37.8	40.0
Petroleum.....	738,971	37,780	2,981,530	5,143,690	30,302	1,631,856	2,797,668	2.9	6.4
Natural Gas.....	5,919,664	9,721,170	8,381,109	17,750,552	16,971,397	9,477,233	11,632,006	23.5	26.6
Other Gases.....	0	0	0	0	37,916	31,799	40,760	.0	.1
Nuclear.....	7,422,131	8,013,321	10,694,555	9,923,882	10,059,459	10,902,456	10,232,766	29.5	23.4
Hydroelectric.....	0	0	0	0	12,129	0	0	.0	.0
Other Renewables.....	1,594,124	1,883,638	1,680,304	1,432,263	936,595	1,022,331	1,481,730	6.3	3.4

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Mississippi							
Coal (cents per million Btu)	165.4	153.3	152.2	163.5	W	W	W
Average heat value (Btu per pound).....	12,543	11,221	11,549	11,672	9,576	9,235	9,087
Average sulfur Content (percent).....	1.6	1.0	.8	.7	.6	.6	.6
Petroleum (cents per million Btu).....	243.3	374.3	333.3	377.4	427.7	411.9	465.4
Average heat value (Btu per gallon).....	151,229	139,508	155,569	154,762	140,924	155,336	155,638
Average sulfur Content (percent).....	2.8	.2	2.8	3.0	1.4	2.8	2.8
Natural Gas (cents per million Btu)	176.4	171.0	390.1	344.6	346.4	556.5	594.4
Average heat value (Btu per cubic foot)	1,036	1,039	1,028	1,029	1,026	1,036	1,033

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Mississippi							
Sulfur Dioxide							
Coal	96	72	81	63	61	62	62
Petroleum.....	11	*	38	64	*	12	16
Natural Gas	*	*	*	*	*	*	*
Other.....	12	15	13	9	8	12	12
Total.....	120	87	132	136	69	86	90
Nitrogen Oxide							
Coal	37	49	31	27	28	32	31
Petroleum.....	1	*	10	16	*	6	10
Gas.....	11	16	19	11	14	5	5
Other.....	4	4	3	3	2	3	3
Total.....	53	70	63	57	43	47	49
Carbon Dioxide							
Coal	9,103	9,136	13,332	18,078	14,021	16,428	16,916
Petroleum.....	667	46	2,356	4,242	35	1,326	2,243
Gas.....	4,794	7,169	6,611	8,956	9,288	5,673	6,129
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	1	7
Total.....	14,564	16,351	22,300	31,276	23,344	23,428	25,295

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Mississippi									
Retail Sales (thousand megawatthours)									
Residential.....	12,266	14,181	17,193	16,856	17,844	17,670	17,580	38.2	38.2
Commercial	6,746	7,539	11,451	11,357	11,773	12,593	12,750	21.0	27.7
Industrial	12,454	15,477	15,856	15,268	15,021	15,281	15,702	38.8	34.1
Other	661	671	836	805	815	NA	NA	2.1	NA
Total.....	32,127	37,868	45,336	44,287	45,452	45,544	46,033	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	845	991	1,191	1,243	1,299	1,343	1,444	43.0	44.8
Commercial	486	529	734	788	804	913	1,019	24.8	31.6
Industrial	579	688	657	672	661	684	759	29.5	23.6
Other	53	57	70	72	71	NA	NA	2.7	NA
Total.....	1,963	2,265	2,652	2,775	2,835	2,940	3,221	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.89	6.99	6.93	7.37	7.28	7.60	8.21	NA	NA
Commercial	7.21	7.01	6.41	6.94	6.83	7.25	7.99	NA	NA
Industrial	4.65	4.44	4.14	4.40	4.40	4.48	4.83	NA	NA
Other	8.03	8.56	8.33	8.95	8.76	NA	NA	NA	NA
Total.....	6.11	5.98	5.85	6.26	6.24	6.46	7.00	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Mississippi								
Number of Entities.....	2	23	1	25	NA	NA	NA	51
Number of Retail Customers.....	612,958	132,454	7	672,591	NA	NA	NA	1,418,010
Retail Sales (thousand megawatthours).....	22,520	4,204	3,203	16,105	NA	NA	NA	46,033
Percentage of Retail Sales	48.92	9.13	6.96	34.99	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,690	276	98	1,157	NA	NA	NA	3,221
Percentage of Revenue.....	52.48	8.58	3.04	35.91	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.51	6.57	3.06	7.18	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. 2004 Summary Statistics

Item	Value	U.S. Rank
Missouri		
NERC Region(s).....		SPP/MAIN
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	20,163	19
Electric Utilities	18,606	13
Independent Power Producers & Combined Heat and Power	1,557	37
Net Generation (megawatthours).....	87,632,910	20
Electric Utilities	86,419,717	11
Independent Power Producers & Combined Heat and Power	1,213,193	43
Emissions (thousand metric tons)		
Sulfur Dioxide.....	270	15
Nitrogen Oxide.....	117	11
Carbon Dioxide.....	75,933	12
Sulfur Dioxide (lbs/MWh).....	6.8	15
Nitrogen Oxide (lbs/MWh).....	2.9	20
Carbon Dioxide (lbs/MWh).....	1,910	10
Total Retail Sales (megawatthours).....	74,054,296	20
Full Service Provider Sales (megawatthours).....	74,054,296	19
Direct Use (megawatthours).....	305,146	41
Average Retail Price (cents/kWh).....	6.07	41

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Missouri			
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	Other,Petroleum,Coal	Union Electric Co	978
8. Meramec	Gas,Coal	Union Electric Co	929
9. Iatan	Petroleum,Coal	Kansas City Power & Light Co	671
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, 2004
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Missouri						
1. Union Electric Co.....	Investor-Owned	32,150,948	12,415,567	13,685,933	6,039,573	9,875
2. Kansas City Power & Light Co.....	Investor-Owned	8,179,662	2,354,498	4,175,736	1,649,428	0
3. Aquila Inc	Investor-Owned	7,101,608	3,067,857	2,708,276	1,325,475	0
4. Empire District Electric Co.....	Investor-Owned	3,810,907	1,507,496	1,407,324	896,087	0
5. Springfield City of.....	Public	2,865,684	882,709	1,454,774	528,201	0
Total Sales, Top Five Providers.....		54,108,809	20,228,127	23,432,043	10,438,764	9,875
Percent of Total State Sales		73	65	83	73	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Missouri									
Electric Utilities	15,180	15,724	17,180	17,726	18,409	18,587	18,606	99.3	92.3
Coal.....	10,678	10,540	11,032	11,032	11,053	11,172	11,159	69.9	55.3
Petroleum.....	961	1,351	1,092	1,091	1,121	1,144	1,165	6.3	5.8
Natural Gas.....	257	324	807	936	1,551	1,494	1,318	1.7	6.5
Dual Fired.....	1,099	1,275	1,908	2,325	2,342	2,427	2,613	7.2	13.0
Nuclear.....	1,125	1,125	1,143	1,143	1,143	1,137	1,137	7.4	5.6
Hydroelectric	544	543	543	543	543	556	556	3.6	2.8
Pumped Storage.....	518	567	657	657	657	657	657	3.4	3.3
Independent Power Producers and Combined									
Heat and Power.....	106	109	105	1,202	1,394	1,390	1,557	.7	7.7
Coal.....	97	96	93	96	96	96	98	.6	.5
Petroleum.....	1	8	7	9	11	11	11	*	.1
Natural Gas.....	6	3	4	1,098	1,265	1,261	1,426	*	7.1
Dual Fired.....	1	1	0	0	23	23	23	*	.1
Total Electric Industry	15,286	15,833	17,285	18,928	19,803	19,977	20,163	100.0	100.0
Coal.....	10,775	10,636	11,125	11,127	11,148	11,267	11,257	70.5	55.8
Petroleum.....	962	1,359	1,099	1,099	1,131	1,154	1,176	6.3	5.8
Natural Gas.....	263	327	811	2,034	2,816	2,755	2,744	1.7	13.6
Dual Fired.....	1,099	1,276	1,908	2,325	2,365	2,450	2,635	7.2	13.1
Nuclear.....	1,125	1,125	1,143	1,143	1,143	1,137	1,137	7.4	5.6
Hydroelectric	544	543	543	543	543	556	556	3.6	2.8
Pumped Storage.....	518	567	657	657	657	657	657	3.4	3.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Missouri									
Electric Utilities	59,010,858	65,400,254	76,283,550	78,990,878	79,796,801	86,102,107	86,419,717	99.4	98.6
Coal.....	48,501,751	53,582,211	62,624,807	65,445,161	67,147,996	73,904,272	74,711,159	81.7	85.3
Petroleum.....	89,342	682,321	247,622	637,504	528,353	155,968	195,098	.2	.2
Natural Gas.....	265,870	1,015,384	2,938,356	3,634,106	2,477,701	1,820,848	1,978,307	.4	2.3
Other Gases.....	0	0	0	0	0	1,652	2,400	.0	*
Nuclear.....	7,998,039	8,241,833	9,991,845	8,384,240	8,389,629	9,699,589	7,830,693	13.5	8.9
Hydroelectric.....	2,192,115	1,918,507	599,920	1,104,135	1,356,928	652,477	1,479,914	3.7	1.7
Other Renewables.....	0	24,979	73,095	51,592	55,198	121,291	106,822	.0	.1
Pumped Storage.....	-36,259	-64,981	-192,095	-265,860	-159,004	-253,991	115,325	-.1	.1
Independent Power Producers and Combined									
Heat and Power	341,972	320,704	310,389	553,995	1,365,396	1,122,980	1,213,194	.6	1.4
Coal.....	295,042	278,209	278,750	303,522	286,971	307,512	268,923	.5	.3
Petroleum.....	691	13,940	5,096	181	1,042	946	3,632	*	*
Natural Gas.....	46,239	28,056	16,785	239,456	1,066,236	803,502	901,820	.1	1.0
Other Renewables.....	0	499	9,758	10,836	11,147	11,021	38,819	.0	*
Total Electric Industry	59,352,830	65,720,958	76,593,939	79,544,873	81,162,198	87,225,087	87,632,910	100.0	100.0
Coal.....	48,796,793	53,860,420	62,903,557	65,748,683	67,434,967	74,211,784	74,980,082	82.2	85.6
Petroleum.....	90,033	696,261	252,718	637,685	529,395	156,914	198,730	.2	.2
Natural Gas.....	312,109	1,043,440	2,955,141	3,873,562	3,543,937	2,624,350	2,880,127	.5	3.3
Other Gases.....	0	0	0	0	0	1,652	2,400	.0	*
Nuclear.....	7,998,039	8,241,833	9,991,845	8,384,240	8,389,629	9,699,589	7,830,693	13.5	8.9
Hydroelectric.....	2,192,115	1,918,507	599,920	1,104,135	1,356,928	652,477	1,479,914	3.7	1.7
Other Renewables.....	0	25,478	82,853	62,428	66,345	132,312	145,641	.0	.2
Pumped Storage.....	-36,259	-64,981	-192,095	-265,860	-159,004	-253,991	115,325	-.1	.1

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Missouri							
Coal (cents per million Btu).....	134.8	98.4	91.8	95.8	W	W	W
Average heat value (Btu per pound).....	10,400	9,216	8,913	8,944	8,822	8,865	8,838
Average sulfur Content (percent).....	2.0	.6	.3	.4	.4	.4	.4
Petroleum (cents per million Btu).....	280.2	110.2	263.3	133.9	117.5	W	279.5
Average heat value (Btu per gallon).....	107,892	79,069	94,215	136,857	134,476	137,769	139,288
Average sulfur Content (percent).....	2.5	3.9	2.5	3.3	3.3	2.4	3.0
Natural Gas (cents per million Btu).....	171.5	168.1	439.0	467.0	W	W	W
Average heat value (Btu per cubic foot).....	1,018	1,006	1,007	1,022	1,008	1,016	1,016

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Missouri							
Sulfur Dioxide							
Coal	721	291	212	234	234	255	266
Petroleum.....	3	4	13	*	*	2	3
Natural Gas	0	0	*	*	*	*	*
Other.....	0	*	*	*	*	2	1
Total.....	724	295	225	234	234	258	270
Nitrogen Oxide							
Coal	261	299	146	134	130	135	116
Petroleum.....	*	2	1	0	*	*	*
Gas.....	1	2	3	2	1	1	1
Other.....	0	0	*	*	*	*	*
Total.....	262	303	149	136	131	136	117
Carbon Dioxide							
Coal	47,115	54,873	64,683	67,114	67,508	74,182	74,293
Petroleum.....	202	749	252	664	528	155	196
Gas.....	261	726	1,653	1,794	1,633	1,191	1,342
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	52	112	102
Total.....	47,579	56,348	66,588	69,572	69,721	75,640	75,933

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Missouri									
Retail Sales (thousand megawatthours)									
Residential.....	21,652	25,409	29,581	30,168	31,684	31,422	31,351	40.2	42.3
Commercial	18,469	21,606	25,875	26,029	26,796	27,987	28,391	34.2	38.3
Industrial.....	12,937	14,321	16,080	15,815	15,341	14,831	14,303	24.0	19.3
Other	866	923	1,106	1,201	1,179	NA	NA	1.6	NA
Transportation.....	NA	NA	NA	NA	NA	0	10	NA	.0
Total.....	53,925	62,259	72,643	73,213	75,001	74,240	74,054	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,593	1,843	2,084	2,113	2,238	2,186	2,185	45.7	48.6
Commercial	1,193	1,334	1,508	1,533	1,576	1,618	1,648	34.2	36.7
Industrial.....	640	649	712	695	679	667	661	18.4	14.7
Other	59	65	67	73	73	NA	NA	1.7	NA
Total.....	3,485	3,892	4,370	4,414	4,565	4,470	4,494	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.36	7.25	7.04	7.00	7.06	6.96	6.97	NA	NA
Commercial	6.46	6.18	5.83	5.89	5.88	5.78	5.80	NA	NA
Industrial.....	4.95	4.53	4.43	4.39	4.42	4.49	4.62	NA	NA
Other	6.81	7.05	6.02	6.08	6.20	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	.00	4.91	NA	NA
Total.....	6.46	6.25	6.02	6.03	6.09	6.02	6.07	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Missouri								
Number of Entities.....	4	88	NA	43	1	NA	NA	136
Number of Retail Customers.....	1,844,233	401,800	NA	677,591	1	NA	NA	2,923,625
Retail Sales (thousand megawatthours)	51,243	10,413	NA	12,379	20	NA	NA	74,054
Percentage of Retail Sales	69.20	14.06	NA	16.72	.03	NA	NA	100.00
Revenue from Retail Sales (million dollars)	3,064	610	NA	819	1	NA	NA	4,494
Percentage of Revenue.....	68.19	13.58	NA	18.21	.02	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.98	5.86	NA	6.61	3.59	NA	NA	6.07

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Montana		
NERC Region(s).....		WECC/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	5,132	40
Electric Utilities	2,189	39
Independent Power Producers & Combined Heat and Power	2,943	31
Net Generation (megawatthours).....	26,788,768	41
Electric Utilities	6,066,404	41
Independent Power Producers & Combined Heat and Power	20,722,364	14
Emissions (thousand metric tons)		
Sulfur Dioxide	23	40
Nitrogen Oxide	37	36
Carbon Dioxide	19,088	38
Sulfur Dioxide (lbs/MWh).....	1.9	42
Nitrogen Oxide (lbs/MWh).....	3.1	17
Carbon Dioxide (lbs/MWh).....	1,571	20
Total Retail Sales (megawatthours).....	12,956,782	41
Full Service Provider Sales (megawatthours).....	10,084,134	45
Deregulated Sales (megawatthours).....	2,872,648	12
Direct Use (megawatthours).....	155,392	45
Average Retail Price (cents/kWh).....	6.40	33

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Montana			
1. Colstrip	Other,Gas,Petroleum	PPL Montana LLC	2,094
2. Noxon Rapids.....	Hydroelectric	Avista Corporation	535
3. Libby.....	Hydroelectric	USCE-North Pacific Division	525
4. Hungry Horse	Hydroelectric	U S Bureau of Reclamation	428
5. Yellowtail	Hydroelectric	U S Bureau of Reclamation	287
6. Kerr.....	Hydroelectric	PPL Montana LLC	212
7. Fort Peck	Hydroelectric	USCE-Missouri River District	200
8. J E Corette Plant	Gas,Coal	PPL Montana LLC	154
9. Thompson Falls.....	Hydroelectric	PPL Montana LLC	88
10. Glendive GT	Petroleum,Gas	MDU Resources Group Inc	76

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Montana						
1. NorthWestern Energy LLC	Investor-Owned	5,318,700	2,018,578	2,814,194	485,928	0
2. PPL EnergyPlus LLC	Power Marketer	2,362,601	0	0	2,362,601	0
3. Flathead Electric Coop Inc.....	Cooperative	1,274,131	540,207	383,630	350,294	0
4. MDU Resources Group Inc.....	Investor-Owned	610,855	143,594	214,006	253,255	0
5. Bonneville Power Admin	Power Marketer	570,960	0	0	570,960	0
Total Sales, Top Five Providers.....		10,137,247	2,702,379	3,411,830	4,023,038	0
Percent of Total State Sales		78	67	79	88	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Montana									
Electric Utilities	4,912	4,943	3,005	2,232	2,232	2,274	2,189	98.8	42.7
Coal	2,260	2,260	792	52	52	52	52	45.5	1.0
Petroleum	0	0	5	0	0	0	0	.0	.0
Natural Gas	70	70	0	0	0	0	0	1.4	.0
Dual Fired	50	50	58	58	58	97	98	1.0	1.9
Hydroelectric	2,520	2,551	2,150	2,122	2,122	2,124	2,040	50.7	39.8
Other Renewables.....	13	12	0	0	0	0	0	.3	.0
Independent Power Producers and Combined									
Heat and Power.....	60	121	2,154	2,907	2,940	2,937	2,943	1.2	57.3
Coal	39	39	1,501	2,283	2,244	2,248	2,283	.8	44.5
Petroleum	0	61	60	55	90	90	55	.0	1.1
Hydroelectric	11	11	584	558	595	588	588	.2	11.5
Other Renewables.....	10	10	10	11	11	11	17	.2	.3
Total Electric Industry	4,972	5,064	5,160	5,139	5,172	5,210	5,132	100.0	100.0
Coal	2,299	2,299	2,293	2,335	2,296	2,300	2,335	46.2	45.5
Petroleum	0	61	65	55	90	90	55	.0	1.1
Natural Gas	70	70	0	0	0	0	0	1.4	.0
Dual Fired	50	50	58	58	58	97	98	1.0	1.9
Hydroelectric	2,531	2,562	2,734	2,680	2,717	2,712	2,627	50.9	51.2
Other Renewables.....	23	23	10	11	11	11	17	.5	.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Montana									
Electric Utilities	25,718,975	25,411,151	6,627,410	4,415,943	6,726,239	6,020,681	6,066,404	98.8	22.6
Coal.....	14,902,659	14,655,727	323,757	311,207	285,747	322,205	347,287	57.3	1.3
Petroleum.....	27,369	25,051	487	854	720	1,482	1,004	.1	*
Natural Gas.....	41,173	31,908	13,438	9,979	6,747	17,997	12,532	.2	*
Hydroelectric.....	10,672,287	10,698,465	6,289,728	4,093,903	6,433,025	5,678,997	5,705,581	41.0	21.3
Other Renewables.....	75,487	0	0	0	0	0	0	.3	.0
Independent Power Producers and Combined									
Heat and Power	310,797	550,163	19,824,418	19,816,542	18,747,466	20,248,046	20,722,364	1.2	77.4
Coal.....	216,960	278,420	15,877,082	16,724,676	15,052,082	16,726,430	17,032,941	.8	63.6
Petroleum.....	1,613	143,003	519,404	496,760	468,939	400,682	437,035	*	1.6
Natural Gas.....	14,082	16,830	13,169	10,110	9,931	7,471	19,595	.1	.1
Other Gases.....	0	8,678	34,311	0	19,160	19,520	22,393	.0	.1
Hydroelectric.....	44,530	47,388	3,333,529	2,519,571	3,133,884	3,022,775	3,150,450	.2	11.8
Other Renewables.....	33,612	55,844	46,923	65,425	63,470	71,168	59,950	.1	.2
Total Electric Industry	26,029,772	25,961,314	26,451,828	24,232,485	25,473,705	26,268,726	26,788,768	100.0	100.0
Coal.....	15,119,619	14,934,147	16,200,839	17,035,883	15,337,829	17,048,635	17,380,228	58.1	64.9
Petroleum.....	28,982	168,054	519,891	497,614	469,659	402,164	438,039	.1	1.6
Natural Gas.....	55,255	48,738	26,607	20,089	16,678	25,468	32,127	.2	.1
Other Gases.....	0	8,678	34,311	0	19,160	19,520	22,393	.0	.1
Hydroelectric.....	10,716,817	10,745,853	9,623,257	6,613,474	9,566,909	8,701,772	8,856,031	41.2	33.1
Other Renewables.....	109,099	55,844	46,923	65,425	63,470	71,168	59,950	.4	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Montana							
Coal (cents per million Btu).....	67.0	67.3	91.5	94.9	W	W	W
Average heat value (Btu per pound).....	8,564	8,520	6,618	8,384	8,461	8,515	8,504
Average sulfur Content (percent).....	.6	.7	.5	.5	.6	.6	.6
Petroleum (cents per million Btu).....	543.2	490.7	.0	.0	W	W	W
Average heat value (Btu per gallon).....	141,000	141,000	0	0	137,748	136,574	137,064
Average sulfur Content (percent).....	.0	.0	.0	.0	3.7	.5	.5
Natural Gas (cents per million Btu).....	145.2	358.1	510.4	666.4	W	W	W
Average heat value (Btu per cubic foot).....	1,218	1,073	1,139	1,021	1,016	1,123	1,095

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Montana							
Sulfur Dioxide							
Coal	16	18	19	31	23	16	19
Petroleum.....	*	3	3	27	22	2	2
Natural Gas	0	0	0	0	0	0	0
Other.....	1	2	2	1	1	5	2
Total.....	17	23	24	60	46	23	23
Nitrogen Oxide							
Coal	85	73	33	38	33	33	35
Petroleum.....	*	1	1	1	1	1	2
Gas.....	*	*	*	*	*	*	*
Other.....	*	1	1	1	1	3	1
Total.....	86	75	36	40	35	37	37
Carbon Dioxide							
Coal	15,643	15,844	16,699	17,432	15,741	17,898	18,142
Petroleum.....	42	741	787	808	743	703	822
Gas.....	169	204	165	75	68	58	124
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	15,854	16,790	17,651	18,315	16,552	18,659	19,088

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Montana									
Retail Sales (thousand megawatthours)									
Residential.....	3,358	3,640	3,908	3,886	4,031	4,120	4,053	25.6	31.3
Commercial	2,738	3,133	3,792	3,866	4,003	4,438	4,330	20.9	33.4
Industrial.....	6,529	6,368	6,568	3,370	4,463	4,267	4,574	49.7	35.3
Other	499	278	312	324	335	NA	NA	3.8	NA
Total.....	13,125	13,419	14,580	11,447	12,831	12,825	12,957	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	183	222	254	267	291	311	319	35.2	38.4
Commercial	128	166	213	228	251	304	321	24.6	38.7
Industrial.....	187	219	261	222	165	172	190	36.0	22.9
Other	21	17	2	24	24	NA	NA	4.0	NA
Total.....	520	624	729	742	732	787	830	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	5.45	6.09	6.49	6.88	7.23	7.56	7.86	NA	NA
Commercial	4.68	5.31	5.60	5.91	6.28	6.85	7.42	NA	NA
Industrial.....	2.87	3.44	3.97	6.59	3.71	4.03	4.15	NA	NA
Other	4.26	6.21	.68	7.47	7.04	NA	NA	NA	NA
Total.....	3.96	4.65	5.00	6.48	5.70	6.14	6.40	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	4	1	3	30	NA	4	2	44
Number of Retail Customers.....	331,708	923	19,088	176,269	NA	22	NA	528,010
Retail Sales (thousand megawatthours)	5,766	14	985	3,319	NA	2,873	NA	12,957
Percentage of Retail Sales	44.50	.11	7.60	25.61	NA	22.17	NA	100.00
Revenue from Retail Sales (million dollars)	440	1	37	233	NA	100	20	830
Percentage of Revenue.....	53.00	.10	4.50	28.04	NA	12.02	2.35	100.00
Average Retail Price (cents/kWh).....	7.62	5.70	3.79	7.01	NA	3.47	.68	6.40

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Nebraska		
NERC Region(s).....		WECC/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,738	36
Electric Utilities	6,722	29
Independent Power Producers & Combined Heat and Power	15	51
Net Generation (megawatthours).....	32,008,709	39
Electric Utilities	31,944,127	33
Independent Power Producers & Combined Heat and Power	64,582	50
Emissions (thousand metric tons)		
Sulfur Dioxide	68	30
Nitrogen Oxide.....	44	33
Carbon Dioxide.....	20,698	37
Sulfur Dioxide (lbs/MWh).....	4.7	23
Nitrogen Oxide (lbs/MWh).....	3.0	19
Carbon Dioxide (lbs/MWh).....	1,426	24
Total Retail Sales (megawatthours).....	25,875,930	36
Full Service Provider Sales (megawatthours).....	25,875,930	36
Direct Use (megawatthours).....	72,112	46
Average Retail Price (cents/kWh).....	5.70	43

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Nebraska			
1. Gerald Gentleman	Gas,Coal	Nebraska Public Power District	1,365
2. Cooper	Nuclear	Nebraska Public Power District	756
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	249
9. Sheldon	Gas,Coal	Nebraska Public Power District	225
10. C W Burdick	Petroleum,Gas	Grand Island City of	174

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Nebraska						
1. Omaha Public Power District.....	Public	9,061,216	3,060,536	3,375,302	2,625,378	0
2. Lincoln Electric System	Public	2,970,088	1,042,788	1,368,089	559,211	0
3. Nebraska Public Power District.....	Public	2,964,170	736,125	989,043	1,239,002	0
4. Loup River Public Power Dist.....	Public	984,897	210,015	184,008	590,874	0
5. Southern Public Power District.....	Public	827,124	224,618	28,989	573,517	0
Total Sales, Top Five Providers.....		16,807,495	5,274,082	5,945,431	5,587,982	0
Percent of Total State Sales		65	60	70	65	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Nebraska									
Electric Utilities	5,452	5,529	5,939	6,010	6,052	6,667	6,722	99.9	99.8
Coal.....	3,094	3,112	3,181	3,181	3,196	3,196	3,196	56.7	47.4
Petroleum.....	234	256	299	290	298	297	296	4.3	4.4
Natural Gas.....	16	11	2	2	2	322	321	.3	4.8
Dual Fired.....	686	730	1,059	1,137	1,149	1,335	1,395	12.6	20.7
Nuclear.....	1,254	1,254	1,234	1,234	1,234	1,233	1,232	23.0	18.3
Hydroelectric	168	167	162	162	167	268	266	3.1	3.9
Other Renewables.....	0	0	3	4	6	16	16	.0	.2
Independent Power Producers and Combined									
Heat and Power	8	10	17	18	17	17	15	.1	.2
Coal.....	8	10	7	8	8	8	8	.1	.1
Petroleum.....	0	0	1	1	1	1	1	.0	*
Natural Gas.....	0	0	1	1	1	1	0	.0	.0
Dual Fired.....	0	0	4	4	2	2	2	.0	*
Other Renewables.....	0	0	3	5	5	5	4	.0	.1
Total Electric Industry	5,460	5,539	5,956	6,028	6,069	6,684	6,738	100.0	100.0
Coal.....	3,102	3,122	3,189	3,189	3,204	3,204	3,204	56.8	47.6
Petroleum.....	234	256	300	291	299	298	297	4.3	4.4
Natural Gas.....	16	11	3	3	3	323	321	.3	4.8
Dual Fired.....	686	730	1,062	1,141	1,152	1,338	1,397	12.6	20.7
Nuclear.....	1,254	1,254	1,234	1,234	1,234	1,233	1,232	23.0	18.3
Hydroelectric	168	167	162	162	167	268	266	3.1	3.9
Other Renewables.....	0	0	6	9	10	21	21	.0	.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Nebraska									
Electric Utilities	21,630,677	25,279,277	29,045,739	30,411,669	31,550,226	30,367,879	31,944,127	100.0	99.8
Coal.....	12,658,464	16,079,519	18,424,799	20,193,542	19,899,803	20,907,970	20,414,960	58.5	63.8
Petroleum.....	12,981	26,679	53,715	25,154	18,410	47,971	21,004	.1	.1
Natural Gas.....	307,841	245,305	437,822	340,050	404,106	369,409	288,576	1.4	.9
Other Gases.....	0	0	0	0	101	206	142	.0	.0
Nuclear.....	7,511,298	7,485,448	8,628,679	8,726,113	10,122,242	7,996,902	10,241,254	34.7	32.0
Hydroelectric.....	1,140,093	1,426,058	1,500,724	1,124,122	1,097,486	980,110	913,021	5.3	2.9
Other Renewables.....	0	16,268	0	2,688	8,078	65,311	65,170	.0	.2
Independent Power Producers and Combined									
Heat and Power	2,910	25,023	64,124	73,543	68,268	88,105	64,582	*	.2
Coal.....	2,686	24,900	33,134	45,164	44,104	46,203	42,125	*	.1
Petroleum.....	0	0	944	3,035	2,139	881	853	.0	*
Natural Gas.....	224	123	13,532	8,681	9,032	11,669	8,825	*	*
Other Renewables.....	0	0	16,514	16,663	12,993	29,352	12,779	.0	*
Total Electric Industry	21,633,587	25,304,300	29,109,863	30,485,212	31,618,494	30,455,984	32,008,709	100.0	100.0
Coal.....	12,661,150	16,104,419	18,457,933	20,238,706	19,943,907	20,954,173	20,457,085	58.5	63.9
Petroleum.....	12,981	26,679	54,659	28,189	20,549	48,852	21,857	.1	.1
Natural Gas.....	308,065	245,428	451,354	348,731	413,138	381,078	297,401	1.4	.9
Other Gases.....	0	0	0	0	101	206	142	.0	.0
Nuclear.....	7,511,298	7,485,448	8,628,679	8,726,113	10,122,242	7,996,902	10,241,254	34.7	32.0
Hydroelectric.....	1,140,093	1,426,058	1,500,724	1,124,122	1,097,486	980,110	913,021	5.3	2.9
Other Renewables.....	0	16,268	16,514	19,351	21,071	94,663	77,949	.0	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Nebraska							
Coal (cents per million Btu).....	75.2	74.8	56.0	56.6	58.1	59.9	65.9
Average heat value (Btu per pound).....	8,561	8,594	8,632	8,587	8,593	8,673	8,574
Average sulfur Content (percent).....	.4	.3	.3	.3	.3	.3	.3
Petroleum (cents per million Btu).....	703.4	224.0	648.5	655.6	554.8	457.2	712.0
Average heat value (Btu per gallon).....	138,043	103,081	137,752	138,714	138,150	138,040	136,976
Average sulfur Content (percent).....	.3	2.7	.2	.1	.2	.1	.2
Natural Gas (cents per million Btu).....	200.8	165.8	460.0	427.6	416.6	563.6	653.9
Average heat value (Btu per cubic foot).....	946	998	1,001	1,023	977	998	995

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Nebraska							
Sulfur Dioxide							
Coal	47	57	55	64	62	63	68
Petroleum.....	*	*	*	*	*	*	*
Natural Gas	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	47	57	55	64	62	63	68
Nitrogen Oxide							
Coal	78	86	39	44	43	46	44
Petroleum.....	*	*	*	*	*	*	*
Gas.....	*	*	1	*	*	*	*
Other.....	0	0	*	*	*	*	*
Total.....	78	86	39	44	43	46	44
Carbon Dioxide							
Coal	13,157	16,860	19,246	20,959	20,162	21,085	20,519
Petroleum.....	22	26	52	29	20	44	21
Gas.....	191	164	328	253	261	248	158
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	13,370	17,050	19,626	21,240	20,442	21,376	20,698

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Nebraska									
Retail Sales (thousand megawatthours)									
Residential.....	6,800	7,597	8,346	8,638	8,956	8,852	8,757	38.1	33.8
Commercial	5,086	5,986	7,041	7,232	7,384	8,583	8,501	28.5	32.9
Industrial.....	4,618	5,802	7,276	7,328	7,563	8,421	8,618	25.8	33.3
Other	1,364	1,508	1,686	1,525	1,758	NA	NA	7.6	NA
Total.....	17,868	20,892	24,349	24,723	25,661	25,857	25,876	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	423	484	545	562	603	608	610	42.5	41.4
Commercial	292	333	382	396	415	499	497	29.3	33.7
Industrial.....	194	223	263	276	294	352	369	19.5	25.0
Other.....	87	88	103	99	112	NA	NA	8.7	NA
Total.....	996	1,128	1,292	1,333	1,424	1,458	1,475	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.23	6.37	6.53	6.50	6.73	6.87	6.96	NA	NA
Commercial	5.73	5.55	5.42	5.48	5.62	5.81	5.84	NA	NA
Industrial.....	4.19	3.84	3.61	3.76	3.89	4.18	4.28	NA	NA
Other.....	6.39	5.86	6.10	6.50	6.37	NA	NA	NA	NA
Total.....	5.57	5.40	5.30	5.39	5.55	5.64	5.70	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Nebraska								
Number of Entities.....	NA	151	1	10	NA	NA	NA	162
Number of Retail Customers.....	NA	920,146	16	22,129	NA	NA	NA	942,291
Retail Sales (thousand megawatthours)	NA	25,113	166	597	NA	NA	NA	25,876
Percentage of Retail Sales	NA	97.05	.64	2.31	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	NA	1,426	2	47	NA	NA	NA	1,475
Percentage of Revenue.....	NA	96.63	.17	3.21	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	NA	5.68	1.47	7.92	NA	NA	NA	5.70

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Nevada		
NERC Region(s).....		WECC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	8,670	34
Electric Utilities	5,389	33
Independent Power Producers & Combined Heat and Power	3,281	28
Net Generation (megawatthours).....	37,667,435	36
Electric Utilities	24,246,391	35
Independent Power Producers & Combined Heat and Power	13,421,044	20
Emissions (thousand metric tons)		
Sulfur Dioxide	50	34
Nitrogen Oxide	41	35
Carbon Dioxide	25,345	34
Sulfur Dioxide (lbs/MWh).....	2.9	36
Nitrogen Oxide (lbs/MWh).....	2.4	26
Carbon Dioxide (lbs/MWh).....	1,483	21
Total Retail Sales (megawatthours).....	31,312,306	34
Full Service Provider Sales (megawatthours).....	31,310,598	34
Deregulated Sales (megawatthours).....	1,708	21
Direct Use (megawatthours).....	232,503	42
Average Retail Price (cents/kWh).....	8.56	12

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Nevada			
1. Mohave	Gas,Coal	Southern California Edison Co	1,580
2. Hoover Dam	Hydroelectric	U S Bureau of Reclamation	1,039
3. Clark	Gas	Nevada Power Co	700
4. Bighorn Electric Generating Station.....	Gas	Reliant Energy Bighorn LLC	570
5. Silverhawk.....	Gas	Pinnacle West Energy	560
6. Reid Gardner	Petroleum,Coal	Nevada Power Co	555
7. North Valmy.....	Petroleum,Coal	Sierra Pacific Power Co	522
8. Tracy	Petroleum,Gas	Sierra Pacific Power Co	500
9. Apex Generating Station.....	Gas	Mirant Las Vegas LLC	494
10. El Dorado Energy.....	Gas	El Dorado Energy LLC	450

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Nevada						
1. Nevada Power Co.....	Investor-Owned	19,014,455	7,981,117	4,141,000	6,892,338	0
2. Sierra Pacific Power Co.....	Investor-Owned	8,627,416	2,034,335	2,840,599	3,752,482	0
3. Colorado River Comm of Nevada.....	Public	1,563,811	0	670,819	892,992	0
4. Wells Rural Electric Co.....	Cooperative	654,668	46,511	43,280	564,877	0
5. Valley Electric Assn, Inc.....	Cooperative	390,600	241,465	127,412	21,723	0
Total Sales, Top Five Providers.....		30,250,950	10,303,428	7,823,110	12,124,412	0
Percent of Total State Sales.....		97	97	95	98	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Nevada									
Electric Utilities	4,944	5,556	5,434	5,388	5,384	5,323	5,389	97.0	62.2
Coal.....	2,692	2,717	2,806	2,747	2,658	2,657	2,657	52.8	30.6
Petroleum.....	78	48	45	44	43	45	45	1.5	.5
Natural Gas.....	113	502	292	288	414	190	256	2.2	3.0
Dual Fired.....	1,031	1,243	1,243	1,261	1,222	1,386	1,386	20.2	16.0
Hydroelectric.....	1,031	1,046	1,049	1,048	1,048	1,045	1,045	20.2	12.1
Independent Power Producers and Combined Heat and Power	154	748	1,282	1,495	1,472	2,185	3,281	3.0	37.8
Natural Gas.....	0	133	904	1,121	1,071	1,785	2,915	.0	33.6
Dual Fired.....	0	383	178	222	222	222	222	.0	2.6
Hydroelectric.....	4	4	4	4	4	6	2	.1	*
Other Renewables.....	150	228	196	148	168	172	142	2.9	1.6
Other.....	0	0	0	0	7	0	0	.0	.0
Total Electric Industry	5,098	6,306	6,716	6,883	6,856	7,508	8,670	100.0	100.0
Coal.....	2,692	2,717	2,806	2,747	2,658	2,657	2,657	52.8	30.6
Petroleum.....	78	48	45	44	43	45	45	1.5	.5
Natural Gas.....	113	636	1,196	1,409	1,485	1,975	3,171	2.2	36.6
Dual Fired.....	1,031	1,626	1,421	1,483	1,444	1,608	1,608	20.2	18.5
Hydroelectric.....	1,034	1,050	1,053	1,052	1,052	1,051	1,047	20.3	12.1
Other Renewables.....	150	228	196	148	168	172	142	2.9	1.6
Other.....	0	0	0	0	7	0	0	.0	.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Nevada									
Electric Utilities	19,286,260	19,997,354	29,341,675	27,896,065	25,008,568	24,634,871	24,246,391	96.2	64.4
Coal.....	15,053,277	13,971,824	18,931,521	17,736,970	16,413,025	17,085,959	18,257,265	75.1	48.5
Petroleum.....	284,108	26,549	64,614	911,611	25,472	16,793	95,766	1.4	.3
Natural Gas.....	2,217,027	4,076,540	7,929,942	6,742,903	6,310,687	5,784,181	4,288,157	11.1	11.4
Hydroelectric.....	1,731,848	1,922,441	2,415,598	2,504,581	2,259,384	1,747,938	1,605,203	8.6	4.3
Independent Power Producers and Combined									
Heat and Power	764,425	3,966,640	6,143,240	5,979,901	7,080,367	8,560,017	13,421,044	3.8	35.6
Petroleum.....	0	4	180	17	0	0	0	.0	.0
Natural Gas.....	0	2,367,213	4,737,247	4,770,870	5,899,973	7,468,598	12,098,047	.0	32.1
Other Gases.....	0	0	0	0	44,909	16,941	15,572	.0	*
Hydroelectric.....	3,233	19,093	13,870	9,141	8,202	8,767	9,920	*	*
Other Renewables.....	761,192	1,553,696	1,370,791	1,199,873	1,127,283	1,065,711	1,297,504	3.8	3.4
Other.....	0	26,634	21,152	0	0	0	0	.0	.0
Total Electric Industry	20,050,685	23,963,994	35,484,915	33,875,966	32,088,935	33,194,888	37,667,435	100.0	100.0
Coal.....	15,053,277	13,971,824	18,931,521	17,736,970	16,413,025	17,085,959	18,257,265	75.1	48.5
Petroleum.....	284,108	26,553	64,794	911,628	25,472	16,793	95,766	1.4	.3
Natural Gas.....	2,217,027	6,443,753	12,667,189	11,513,773	12,210,660	13,252,779	16,386,204	11.1	43.5
Other Gases.....	0	0	0	0	44,909	16,941	15,572	.0	*
Hydroelectric.....	1,735,081	1,941,534	2,429,468	2,513,722	2,267,586	1,756,705	1,615,123	8.7	4.3
Other Renewables.....	761,192	1,553,696	1,370,791	1,199,873	1,127,283	1,065,711	1,297,504	3.8	3.4
Other.....	0	26,634	21,152	0	0	0	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Nevada							
Coal (cents per million Btu).....	149.1	131.0	126.4	126.2	133.9	141.7	136.1
Average heat value (Btu per pound).....	11,122	11,075	11,211	11,214	10,177	11,120	11,118
Average sulfur Content (percent).....	.5	.5	.5	.5	.5	.5	.5
Petroleum (cents per million Btu).....	314.3	337.2	721.6	585.1	600.2	600.7	472.8
Average heat value (Btu per gallon).....	148,234	146,669	139,110	151,833	140,174	138,548	149,914
Average sulfur Content (percent).....	.8	.6	.3	.3	.3	.3	.9
Natural Gas (cents per million Btu).....	195.6	165.8	475.0	802.5	438.4	510.6	556.2
Average heat value (Btu per cubic foot).....	1,031	1,029	1,023	1,026	1,020	1,040	1,036

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Nevada							
Sulfur Dioxide							
Coal	48	46	48	45	45	47	49
Petroleum.....	1	*	*	4	*	*	*
Natural Gas	*	*	*	*	*	*	*
Other.....	0	0	0	0	0	0	0
Total.....	50	46	48	50	45	47	50
Nitrogen Oxide							
Coal	65	67	35	32	35	34	35
Petroleum.....	*	*	*	1	*	*	*
Gas.....	3	7	10	9	7	6	6
Other.....	0	*	0	0	0	0	*
Total.....	69	74	45	42	42	40	41
Carbon Dioxide							
Coal	16,045	14,601	18,145	17,174	15,082	16,675	17,628
Petroleum.....	281	24	56	1,036	21	15	79
Gas.....	1,326	3,350	6,521	5,877	5,901	6,266	7,604
Geothermal.....	20	40	35	31	29	27	33
Other.....	0	0	0	0	0	0	0
Total.....	17,671	18,015	24,757	24,118	21,033	22,982	25,345

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Nevada									
Retail Sales (thousand megawatthours)									
Residential.....	5,540	6,655	9,406	9,607	9,702	10,340	10,673	33.9	34.1
Commercial	3,866	4,731	6,548	6,693	7,538	8,168	8,275	23.6	26.4
Industrial.....	6,263	8,496	11,239	11,239	11,373	11,624	12,364	38.3	39.5
Other	684	777	598	628	592	NA	NA	4.2	NA
Total.....	16,352	20,659	27,792	28,167	29,204	30,132	31,312	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	316	473	685	872	915	932	1,034	35.9	38.6
Commercial	239	319	441	565	683	718	752	27.2	28.0
Industrial.....	294	429	560	738	824	849	895	33.4	33.4
Other	31	39	29	39	39	NA	NA	3.5	NA
Total.....	880	1,260	1,715	2,213	2,460	2,499	2,681	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	5.70	7.11	7.28	9.08	9.43	9.02	9.69	NA	NA
Commercial	6.19	6.75	6.74	8.45	9.06	8.78	9.08	NA	NA
Industrial.....	4.69	5.05	4.98	6.56	7.25	7.30	7.24	NA	NA
Other	4.49	5.00	4.77	6.15	6.54	NA	NA	NA	NA
Total.....	5.38	6.10	6.17	7.86	8.42	8.29	8.56	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Nevada								
Number of Entities.....	2	8	1	8	NA	NA	1	20
Number of Retail Customers.....	1,009,885	25,128	2	32,283	NA	2	NA	1,067,300
Retail Sales (thousand megawatthours)	27,642	2,191	27	1,451	NA	2	NA	31,312
Percentage of Retail Sales	88.28	7.00	.09	4.63	NA	.01	NA	100.00
Revenue from Retail Sales (million dollars)	2,486	112	*	82	NA	NA	*	2,681
Percentage of Revenue.....	92.74	4.18	.01	3.07	NA	NA	*	100.00
Average Retail Price (cents/kWh).....	8.99	5.12	.54	5.68	NA	NA	2.34	8.56

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. 2004 Summary Statistics

Item	Value	U.S. Rank
New Hampshire		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	4,270	42
Electric Utilities	1,121	42
Independent Power Producers & Combined Heat and Power	3,149	29
Net Generation (megawatthours).....	23,875,787	42
Electric Utilities	6,169,110	40
Independent Power Producers & Combined Heat and Power	17,706,677	18
Emissions (thousand metric tons)		
Sulfur Dioxide	52	33
Nitrogen Oxide.....	10	45
Carbon Dioxide.....	8,172	43
Sulfur Dioxide (lbs/MWh).....	4.8	21
Nitrogen Oxide (lbs/MWh).....	.9	44
Carbon Dioxide (lbs/MWh).....	755	45
Total Retail Sales (megawatthours).....	10,973,309	45
Full Service Provider Sales (megawatthours).....	10,863,434	41
Deregulated Sales (megawatthours).....	109,875	18
Direct Use (megawatthours).....	456,052	37
Average Retail Price (cents/kWh).....	11.37	4

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
New Hampshire			
1. Seabrook	Nuclear	FPL Energy Seabrook LLC	1,159
2. Granite Ridge	Gas	Granite Ridge Energy LLC	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.....	Hydroelectric	U S Gen New England Inc	191
7. Comerford.....	Hydroelectric	U S Gen New England Inc	161
8. Schiller.....	Gas,Petroleum,Coal	Public Service Co of NH	160
9. Berlin Gorham.....	Petroleum,Other	Fraser NH LLC	35
10. Berlin Gorham.....	Hydroelectric	Great Lakes Hydro America LLC	29

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
New Hampshire						
1. Public Service Co of NH	Investor-Owned	7,990,059	3,014,751	3,259,035	1,716,273	0
2. Unitil Energy Systems.....	Investor-Owned	1,221,322	482,768	362,704	375,850	0
3. Granite State Electric Co.....	Investor-Owned	750,436	286,354	393,462	70,620	0
4. New Hampshire Elec Coop Inc	Cooperative	713,917	434,142	227,885	51,890	0
5. Town of Littleton.....	Public	75,334	18,974	16,790	39,570	0
Total Sales, Top Five Providers.....		10,751,068	4,236,989	4,259,876	2,254,203	0
Percent of Total State Sales		98	99	98	97	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Hampshire									
Electric Utilities	2,638	2,506	2,290	1,128	1,105	1,121	1,121	90.7	26.3
Coal.....	622	578	575	575	575	575	575	21.4	13.5
Petroleum.....	104	66	65	65	48	64	65	3.6	1.5
Dual Fired.....	441	423	424	425	417	417	417	15.2	9.8
Nuclear.....	1,150	1,155	1,161	0	0	0	0	39.6	.0
Hydroelectric	319	284	64	64	64	65	64	11.0	1.5
Independent Power Producers and Combined									
Heat and Power	269	245	565	1,715	2,322	3,123	3,149	9.3	73.7
Petroleum.....	35	28	24	32	32	32	46	1.2	1.1
Natural Gas.....	0	0	4	18	543	291	288	.0	6.7
Dual Fired.....	5	4	14	7	7	1,064	1,067	.2	25.0
Nuclear.....	0	0	0	1,161	1,161	1,159	1,159	.0	27.1
Hydroelectric	88	88	379	366	449	447	454	3.0	10.6
Other Renewables.....	142	125	144	132	131	131	136	4.9	3.2
Total Electric Industry	2,907	2,751	2,855	2,843	3,427	4,244	4,270	100.0	100.0
Coal.....	622	578	575	575	575	575	575	21.4	13.5
Petroleum.....	140	95	89	97	80	96	111	4.8	2.6
Natural Gas.....	0	0	4	18	543	291	288	.0	6.7
Dual Fired.....	446	427	439	431	424	1,481	1,484	15.3	34.8
Nuclear.....	1,150	1,155	1,161	1,161	1,161	1,159	1,159	39.6	27.1
Hydroelectric	408	371	443	429	514	511	518	14.0	12.1
Other Renewables.....	141	125	144	132	130	131	136	4.8	3.2

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Hampshire									
Electric Utilities	10,810,155	13,936,033	12,701,500	13,095,085	12,276,456	6,231,573	6,169,110	87.1	25.8
Coal.....	2,959,203	3,367,488	3,965,476	3,706,399	3,722,386	3,923,303	4,076,075	23.9	17.1
Petroleum.....	2,293,037	1,003,899	409,661	428,990	595,575	1,976,692	1,770,459	18.5	7.4
Natural Gas.....	0	201,304	76,789	42,143	95,547	87	78	.0	.0
Nuclear.....	4,080,691	8,379,376	7,921,880	8,692,743	7,599,861	0	0	32.9	.0
Hydroelectric.....	1,477,224	983,966	327,694	224,810	263,087	331,491	322,498	11.9	1.4
Independent Power Producers and Combined									
Heat and Power	1,595,041	1,498,346	2,329,999	1,979,539	3,676,622	15,365,534	17,706,677	12.9	74.2
Petroleum.....	53,456	60,857	61,667	52,687	54,134	67,834	189,348	.4	.8
Natural Gas.....	0	0	62,154	76,383	124,822	4,165,378	5,400,332	.0	22.6
Nuclear.....	0	0	0	0	1,694,756	9,276,288	10,177,573	.0	42.6
Hydroelectric.....	403,863	385,924	1,099,520	765,769	877,853	999,778	993,258	3.3	4.2
Other Renewables.....	1,137,722	1,051,565	1,106,658	1,084,700	925,057	856,256	946,165	9.2	4.0
Total Electric Industry	12,405,196	15,434,379	15,031,499	15,074,624	15,953,078	21,597,107	23,875,787	100.0	100.0
Coal.....	2,959,203	3,367,488	3,965,476	3,706,399	3,722,386	3,923,303	4,076,075	23.9	17.1
Petroleum.....	2,346,493	1,064,756	471,328	481,677	649,709	2,044,526	1,959,807	18.9	8.2
Natural Gas.....	0	201,304	138,943	118,526	220,369	4,165,465	5,400,410	.0	22.6
Nuclear.....	4,080,691	8,379,376	7,921,880	8,692,743	9,294,617	9,276,288	10,177,573	32.9	42.6
Hydroelectric.....	1,881,087	1,369,890	1,427,214	990,579	1,140,940	1,331,269	1,315,756	15.2	5.5
Other Renewables.....	1,137,722	1,051,565	1,106,658	1,084,700	925,057	856,256	946,165	9.2	4.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
New Hampshire							
Coal (cents per million Btu).....	178.1	158.9	148.5	167.2	180.3	170.3	201.6
Average heat value (Btu per pound).....	13,303	13,111	13,114	13,052	13,017	13,262	13,199
Average sulfur Content (percent).....	1.8	1.4	1.3	1.3	1.2	1.1	1.2
Petroleum (cents per million Btu).....	226.9	232.6	345.3	336.7	370.5	W	W
Average heat value (Btu per gallon).....	154,329	154,403	153,741	151,214	149,660	152,724	152,883
Average sulfur Content (percent).....	1.9	1.5	1.6	.8	1.5	1.5	1.4
Natural Gas (cents per million Btu).....	.0	182.6	315.1	238.7	388.3	W	W
Average heat value (Btu per cubic foot).....	0	1,018	1,069	1,018	1,031	1,047	1,045

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
New Hampshire							
Sulfur Dioxide							
Coal	37	33	42	40	35	30	34
Petroleum.....	23	8	5	4	5	21	17
Natural Gas	0	0	0	0	0	*	*
Other.....	*	*	*	*	*	1	1
Total.....	60	41	47	44	40	52	52
Nitrogen Oxide							
Coal	15	8	7	5	5	5	5
Petroleum.....	3	1	1	1	1	3	3
Gas.....	0	*	*	*	*	1	*
Other.....	1	1	1	1	1	1	1
Total.....	19	11	9	8	7	10	10
Carbon Dioxide							
Coal	2,798	3,272	4,062	3,702	3,668	3,838	4,006
Petroleum.....	2,060	1,007	499	495	658	1,815	1,825
Gas.....	0	120	199	195	128	1,838	2,228
Geothermal.....	0	0	0	0	0	0	0
Other.....	29	29	29	30	104	109	112
Total.....	4,887	4,427	4,788	4,422	4,557	7,600	8,172

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Hampshire									
Retail Sales (thousand megawatthours)									
Residential.....	3,444	3,364	3,656	3,789	4,003	4,252	4,282	38.4	39.0
Commercial	2,010	3,226	3,774	3,911	4,024	4,318	4,363	22.4	39.8
Industrial.....	3,418	2,286	2,597	2,483	2,222	2,403	2,328	38.1	21.2
Other	107	131	131	133	134	NA	NA	1.2	NA
Total.....	8,980	9,007	10,159	10,316	10,383	10,973	10,973	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	356	454	481	473	476	509	535	43.6	42.9
Commercial	191	367	408	412	405	445	480	23.4	38.5
Industrial.....	256	219	238	226	202	234	233	31.4	18.7
Other	14	16	16	18	17	NA	NA	1.7	NA
Total.....	816	1,056	1,143	1,129	1,100	1,188	1,248	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	10.34	13.50	13.15	12.49	11.89	11.98	12.49	NA	NA
Commercial	9.50	11.38	10.80	10.53	10.06	10.30	10.99	NA	NA
Industrial.....	7.47	9.56	9.17	9.11	9.09	9.75	10.01	NA	NA
Other	12.74	12.32	12.41	13.28	12.83	NA	NA	NA	NA
Total.....	9.09	11.72	11.25	10.95	10.60	10.83	11.37	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
New Hampshire								
Number of Entities.....	3	5	NA	1	2	4	2	17
Number of Retail Customers.....	585,964	11,232	NA	75,004	3	30	NA	672,233
Retail Sales (thousand megawatthours)	9,961	174	NA	714	15	110	NA	10,973
Percentage of Retail Sales	90.77	1.58	NA	6.51	.14	1.00	NA	100.00
Revenue from Retail Sales (million dollars)	1,128	16	NA	93	2	6	3	1,248
Percentage of Revenue.....	90.40	1.30	NA	7.45	.17	.48	.20	100.00
Average Retail Price (cents/kWh).....	11.32	9.31	NA	13.03	14.17	5.40	2.30	11.37

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. 2004 Summary Statistics

Item	Value	U.S. Rank
New Jersey		
NERC Region(s).....		MAAC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	18,164	22
Electric Utilities	1,005	43
Independent Power Producers & Combined Heat and Power	17,160	6
Net Generation (megawatthours).....	55,882,342	24
Electric Utilities	1,648,908	43
Independent Power Producers & Combined Heat and Power	54,233,434	6
Emissions (thousand metric tons)		
Sulfur Dioxide	49	35
Nitrogen Oxide	30	37
Carbon Dioxide	21,299	36
Sulfur Dioxide (lbs/MWh).....	1.9	41
Nitrogen Oxide (lbs/MWh).....	1.2	43
Carbon Dioxide (lbs/MWh).....	840	43
Total Retail Sales (megawatthours).....	77,593,167	19
Full Service Provider Sales (megawatthours).....	59,019,571	23
Deregulated Sales (megawatthours).....	18,573,596	5
Direct Use (megawatthours).....	2,406,897	19
Average Retail Price (cents/kWh).....	10.29	9

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
New Jersey			
1. PSEG Salem Generating Station	Other,Nuclear	PSEG Nuclear LLC	2,342
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.....	Other,Petroleum,Gas	PSEG Fossil LLC	991
5. Linden Cogen Plant.....	Petroleum,Other,Gas	Cogen Technologies Linden Vent	900
6. PSEG Mercer Generating Station.....	Gas,Coal	PSEG Fossil LLC	777
7. PSEG Linden Generating Station.....	Other,Gas	PSEG Fossil LLC	775
8. AES Red Oak LLC	Gas	AES Red Oak LLC	766
9. PSEG Kearny Generating Station.....	Other,Gas	PSEG Fossil LLC	764
10. Oyster Creek.....	Nuclear	AmerGen Energy Co LLC	619

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
New Jersey						
1. Public Service Elec & Gas Co.....	Investor-Owned	33,954,980	13,107,934	17,479,976	3,218,492	148,578
2. Jersey Central Power&Light Co.....	Investor-Owned	16,308,325	8,866,770	6,635,871	805,684	0
3. Atlantic City Electric Co.....	Investor-Owned	7,680,146	4,257,474	3,032,944	389,728	0
4. Reliant Energy Solutions East.....	Power Marketer	2,647,191	0	0	2,647,191	0
5. PEPCO Energy Services.....	Power Marketer	2,323,162	0	2,234,080	0	89,082
Total Sales, Top Five Providers.....		62,913,804	26,232,178	29,382,871	7,061,095	237,660
Percent of Total State Sales.....		81	94	77	63	82

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Jersey									
Electric Utilities	13,730	13,817	1,244	1,244	1,244	1,244	1,005	94.5	5.5
Coal.....	1,652	1,629	387	387	387	387	307	11.4	1.7
Petroleum.....	3,576	2,740	286	286	286	286	232	24.6	1.3
Natural Gas.....	2,547	3,178	0	0	0	0	0	17.5	.0
Dual Fired.....	1,762	2,028	171	171	171	171	66	12.1	.4
Nuclear.....	3,863	3,862	0	0	0	0	0	26.6	.0
Pumped Storage.....	330	380	400	400	400	400	400	2.3	2.2
Independent Power Producers and Combined									
Heat and Power	807	3,066	15,322	15,443	17,140	17,402	17,160	5.6	94.5
Coal.....	0	483	1,702	1,701	1,737	1,737	1,817	.0	10.0
Petroleum.....	6	25	730	1,909	1,996	1,867	1,906	*	10.5
Natural Gas.....	48	321	1,715	2,340	3,293	2,871	2,235	.3	12.3
Other Gases.....	0	0	47	21	21	21	21	.0	.1
Dual Fired.....	635	2,057	7,054	5,402	6,024	6,783	6,985	4.4	38.5
Nuclear.....	0	0	3,862	3,875	3,875	3,908	3,972	.0	21.9
Hydroelectric.....	13	13	13	12	13	14	11	.1	.1
Other Renewables.....	105	168	200	182	181	200	200	.7	1.1
Other.....	0	0	0	0	0	0	11	.0	.1
Total Electric Industry	14,536	16,883	16,566	16,687	18,384	18,647	18,164	100.0	100.0
Coal.....	1,652	2,112	2,088	2,088	2,124	2,124	2,124	11.4	11.7
Petroleum.....	3,582	2,765	1,016	2,194	2,282	2,153	2,138	24.6	11.8
Natural Gas.....	2,596	3,499	1,715	2,341	3,293	2,872	2,235	17.9	12.3
Other Gases.....	0	0	47	21	21	21	21	.0	.1
Dual Fired.....	2,396	4,085	7,225	5,574	6,195	6,955	7,052	16.5	38.8
Nuclear.....	3,863	3,862	3,862	3,875	3,875	3,908	3,972	26.6	21.9
Hydroelectric.....	13	13	13	12	13	14	12	.1	.1
Other Renewables.....	105	169	200	182	181	200	200	.7	1.1
Pumped Storage.....	330	380	400	400	400	400	400	2.3	2.2
Other.....	0	0	0	0	0	0	11	.0	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Jersey									
Electric Utilities	36,488,596	27,087,559	25,254,292	1,630,319	1,569,056	1,910,115	1,648,908	91.3	3.0
Coal.....	7,057,820	5,105,184	5,317,916	1,439,282	1,416,711	1,792,734	1,800,845	17.7	3.2
Petroleum.....	1,831,935	884,897	295,097	230,522	202,514	209,017	98,826	4.6	.2
Natural Gas.....	3,978,001	4,386,493	1,610,650	102,255	95,631	28,246	36,476	10.0	.1
Nuclear.....	23,770,387	16,805,517	18,171,257	0	0	0	0	59.5	.0
Pumped Storage.....	-149,547	-94,532	-140,628	-141,740	-145,800	-119,882	-287,239	-4	-5
Independent Power Producers and Combined									
Heat and Power	3,480,238	18,011,099	32,830,923	57,790,941	60,000,330	55,489,236	54,233,433	8.7	97.0
Coal.....	0	2,060,796	4,772,199	7,879,758	8,188,343	7,996,829	8,521,626	.0	15.2
Petroleum.....	263,034	837,391	790,179	1,066,103	528,119	1,332,535	1,291,994	.7	2.3
Natural Gas.....	2,936,324	13,816,028	14,898,599	16,605,946	18,973,727	14,747,331	15,950,119	7.3	28.5
Other Gases.....	0	64,073	584,734	448,885	90,483	255,374	49,464	.0	.1
Nuclear.....	0	0	10,406,862	30,469,230	30,865,675	29,709,201	27,081,566	.0	48.5
Hydroelectric.....	31,351	10,955	14,036	18,002	12,030	38,891	37,503	.1	.1
Other Renewables.....	249,529	1,221,856	1,364,314	1,303,017	1,330,416	1,398,532	1,301,161	.6	2.3
Other.....	0	0	0	0	11,538	10,543	0	.0	.0
Total Electric Industry	39,968,834	45,098,658	58,085,215	59,421,260	61,569,387	57,399,351	55,882,342	100.0	100.0
Coal.....	7,057,820	7,165,980	10,090,115	9,319,040	9,605,054	9,789,563	10,322,471	17.7	18.5
Petroleum.....	2,094,969	1,722,288	1,085,276	1,296,625	730,633	1,541,552	1,390,820	5.2	2.5
Natural Gas.....	6,914,325	18,202,521	16,509,249	16,708,201	19,069,358	14,775,577	15,986,595	17.3	28.6
Other Gases.....	0	64,073	584,734	448,885	90,483	255,374	49,464	.0	.1
Nuclear.....	23,770,387	16,805,517	28,578,119	30,469,230	30,865,675	29,709,201	27,081,566	59.5	48.5
Hydroelectric.....	31,351	10,955	14,036	18,002	12,030	38,891	37,503	.1	.1
Other Renewables.....	249,529	1,221,856	1,364,314	1,303,017	1,330,416	1,398,532	1,301,161	.6	2.3
Pumped Storage.....	-149,547	-94,532	-140,628	-141,740	-145,800	-119,882	-287,239	-4	-5
Other.....	0	0	0	0	11,538	10,543	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
New Jersey							
Coal (cents per million Btu).....	180.1	177.6	139.4	227.4	187.3	179.6	204.7
Average heat value (Btu per pound).....	13,429	13,282	13,153	13,003	12,853	13,056	12,868
Average sulfur Content (percent).....	1.2	1.2	1.1	1.6	1.2	1.1	1.6
Petroleum (cents per million Btu).....	359.6	286.2	484.1	454.0	468.0	604.0	601.7
Average heat value (Btu per gallon).....	148,299	149,312	149,559	141,857	141,631	139,250	135,095
Average sulfur Content (percent).....	.4	.4	.5	.5	.4	.2	.1
Natural Gas (cents per million Btu).....	217.2	211.8	430.4	335.6	404.4	619.6	696.2
Average heat value (Btu per cubic foot).....	1,032	1,031	1,027	1,038	1,032	1,036	1,031

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
New Jersey							
Sulfur Dioxide							
Coal	63	34	52	44	42	46	47
Petroleum.....	9	4	2	2	2	3	2
Natural Gas	*	*	*	*	*	*	*
Other.....	*	*	*	*	*	*	*
Total.....	71	38	55	46	44	49	49
Nitrogen Oxide							
Coal	35	29	27	24	25	22	20
Petroleum.....	4	2	1	1	1	1	2
Gas.....	10	20	7	8	8	4	4
Other.....	1	2	3	3	4	4	4
Total.....	50	54	38	36	38	32	30
Carbon Dioxide							
Coal	7,178	7,357	10,611	10,413	9,656	9,837	10,378
Petroleum.....	2,408	1,560	991	1,376	812	1,475	1,318
Gas.....	4,483	10,203	9,304	9,180	10,625	8,170	8,906
Geothermal.....	0	0	0	0	0	0	0
Other.....	43	242	239	236	878	712	697
Total.....	14,111	19,362	21,145	21,204	21,971	20,194	21,299

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Jersey									
Retail Sales (thousand megawatthours)									
Residential.....	20,498	22,470	24,547	25,491	27,171	27,367	28,020	32.6	36.1
Commercial	26,839	29,792	33,112	34,445	35,429	36,616	38,074	42.7	49.1
Industrial.....	15,041	13,989	11,812	12,707	11,476	12,215	11,210	23.9	14.4
Other	479	504	506	534	526	NA	NA	.8	NA
Transportation.....	NA	NA	NA	NA	NA	184	290	NA	.4
Total.....	62,857	66,754	69,977	73,177	74,603	76,383	77,593	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	2,123	2,692	2,522	2,603	2,820	2,921	3,148	37.2	39.4
Commercial	2,400	3,049	3,027	3,132	3,155	3,335	3,793	42.1	47.5
Industrial.....	1,107	1,140	1,013	1,059	886	976	1,012	19.4	12.7
Other	77	91	61	60	78	NA	NA	1.3	NA
Transportation.....	NA	NA	NA	NA	NA	13	32	NA	.4
Total.....	5,707	6,972	6,624	6,853	6,939	7,245	7,984	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	10.36	11.98	10.27	10.21	10.38	10.67	11.23	NA	NA
Commercial	8.94	10.23	9.14	9.09	8.90	9.11	9.96	NA	NA
Industrial.....	7.36	8.15	8.58	8.33	7.72	7.99	9.03	NA	NA
Other	15.96	18.06	12.11	11.21	14.80	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.15	10.94	NA	NA
Total.....	9.08	10.44	9.46	9.36	9.30	9.48	10.29	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
New Jersey								
Number of Entities.....	4	9	NA	1	5	16	5	40
Number of Retail Customers.....	3,639,692	62,337	NA	11,372	5	62,574	NA	3,775,980
Retail Sales (thousand megawatthours)	57,560	1,063	NA	145	252	18,574	NA	77,593
Percentage of Retail Sales	74.18	1.37	NA	.19	.32	23.94	NA	100.00
Revenue from Retail Sales (million dollars)	6,121	114	NA	16	18	1,038	678	7,984
Percentage of Revenue.....	76.66	1.42	NA	.20	.22	13.00	8.49	100.00
Average Retail Price (cents/kWh).....	10.63	10.68	NA	11.10	6.96	5.59	3.65	10.29

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. 2004 Summary Statistics

Item	Value	U.S. Rank
New Mexico		
NERC Region(s).....		SPP/WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,329	38
Electric Utilities	5,393	32
Independent Power Producers & Combined Heat and Power	937	40
Net Generation (megawatthours).....	32,940,361	37
Electric Utilities	32,242,728	32
Independent Power Producers & Combined Heat and Power	697,633	45
Emissions (thousand metric tons)		
Sulfur Dioxide	35	36
Nitrogen Oxide.....	68	27
Carbon Dioxide.....	30,906	30
Sulfur Dioxide (lbs/MWh).....	2.3	38
Nitrogen Oxide (lbs/MWh).....	4.5	3
Carbon Dioxide (lbs/MWh).....	2,068	4
Total Retail Sales (megawatthours).....	19,845,735	39
Full Service Provider Sales (megawatthours).....	19,845,735	39
Direct Use (megawatthours).....	445,845	38
Average Retail Price (cents/kWh).....	7.10	21

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
New Mexico			
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.....	Petroleum,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, 2004
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
New Mexico						
1. Public Service Co of NM.....	Investor-Owned	7,471,491	2,498,339	3,689,383	1,283,769	0
2. Southwestern Public Service Co.....	Investor-Owned	3,535,278	894,457	1,454,336	1,186,485	0
3. El Paso Electric Co.....	Investor-Owned	1,441,872	509,344	826,909	105,619	0
4. Farmington City of.....	Public	1,097,570	222,483	358,570	516,517	0
5. Texas-New Mexico Power Co.....	Investor-Owned	1,087,822	245,616	258,149	584,057	0
Total Sales, Top Five Providers.....		14,634,033	4,370,239	6,587,347	3,676,447	0
Percent of Total State Sales.....		74	78	80	62	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Mexico									
Electric Utilities	5,042	5,078	5,250	5,250	5,463	5,398	5,393	97.3	85.2
Coal.....	3,899	3,901	3,942	3,942	3,942	3,942	3,937	75.2	62.2
Petroleum.....	24	24	0	0	15	35	35	.5	.6
Natural Gas.....	757	588	925	925	1,048	905	905	14.6	14.3
Dual Fired.....	307	507	301	301	377	434	434	5.9	6.9
Hydroelectric	56	58	82	82	82	82	82	1.1	1.3
Independent Power Producers and Combined									
Heat and Power	141	182	351	409	473	891	937	2.7	14.8
Petroleum.....	26	24	37	10	10	10	10	.5	.2
Natural Gas.....	85	52	77	213	274	347	332	1.6	5.2
Dual Fired.....	29	104	234	184	184	325	325	.6	5.1
Other Renewables.....	2	2	2	2	6	210	270	*	4.3
Total Electric Industry	5,183	5,260	5,600	5,659	5,936	6,288	6,329	100.0	100.0
Coal.....	3,899	3,901	3,942	3,942	3,942	3,942	3,937	75.2	62.2
Petroleum.....	49	48	37	10	25	45	45	.9	.7
Natural Gas.....	841	640	1,002	1,138	1,321	1,251	1,237	16.2	19.5
Dual Fired.....	336	611	534	485	561	759	759	6.5	12.0
Hydroelectric	56	58	82	82	82	82	82	1.1	1.3
Other Renewables.....	2	2	2	2	6	210	270	*	4.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Mexico									
Electric Utilities	28,491,171	29,431,903	32,855,587	32,210,683	29,926,241	31,770,151	32,242,728	98.9	97.9
Coal.....	25,826,928	26,121,447	29,065,954	28,402,187	26,902,880	28,812,844	29,263,899	89.6	88.8
Petroleum.....	34,081	23,073	29,529	30,210	30,710	47,860	30,321	.1	.1
Natural Gas.....	2,424,727	3,023,463	3,538,952	3,540,966	2,728,060	2,738,748	2,809,561	8.4	8.5
Hydroelectric	205,435	263,920	221,152	237,320	264,591	170,699	138,947	.7	.4
Independent Power Producers and Combined									
Heat and Power	329,033	399,256	1,166,433	1,400,960	735,466	965,501	697,632	1.1	2.1
Petroleum.....	1,545	4,673	58,582	36,002	2,379	2,809	1,055	*	*
Natural Gas.....	313,360	385,530	1,099,387	1,346,306	713,679	779,957	183,112	1.1	.6
Other Renewables	14,128	9,053	8,464	18,652	19,408	182,735	513,465	*	1.6
Total Electric Industry	28,820,204	29,831,159	34,022,020	33,611,643	30,661,707	32,735,653	32,940,361	100.0	100.0
Coal.....	25,826,928	26,121,447	29,065,954	28,402,187	26,902,880	28,812,844	29,263,899	89.6	88.8
Petroleum.....	35,626	27,746	88,111	66,212	33,089	50,669	31,376	.1	.1
Natural Gas.....	2,738,087	3,408,993	4,638,339	4,887,272	3,441,739	3,518,705	2,992,673	9.5	9.1
Hydroelectric	205,435	263,920	221,152	237,320	264,591	170,699	138,947	.7	.4
Other Renewables	14,128	9,053	8,464	18,652	19,408	182,735	513,465	*	1.6

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
New Mexico							
Coal (cents per million Btu)	131.8	141.7	137.8	147.4	152.9	142.5	147.7
Average heat value (Btu per pound).....	9,117	9,033	9,206	9,252	9,286	9,164	9,225
Average sulfur Content (percent).....	.8	.8	.8	.7	.7	.7	.7
Petroleum (cents per million Btu).....	524.5	490.4	758.5	631.5	613.9	W	W
Average heat value (Btu per gallon).....	138,099	136,000	136,000	139,667	134,398	136,048	136,007
Average sulfur Content (percent).....	.8	1.0	.8	1.0	.1	.0	.0
Natural Gas (cents per million Btu)	190.8	154.5	387.7	415.0	303.8	W	W
Average heat value (Btu per cubic foot)	1,034	1,017	1,016	988	993	996	1,000

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
New Mexico							
Sulfur Dioxide							
Coal	54	53	63	57	46	46	35
Petroleum.....	*	*	*	*	*	*	*
Natural Gas	*	*	*	*	*	*	*
Other.....	0	0	0	0	0	0	0
Total.....	54	53	63	57	46	46	35
Nitrogen Oxide							
Coal	122	107	75	72	69	68	65
Petroleum.....	*	*	*	*	0	*	*
Gas.....	4	4	5	5	3	3	3
Other.....	*	*	*	*	*	0	0
Total.....	125	111	80	77	72	71	68
Carbon Dioxide							
Coal	26,149	25,684	28,509	27,736	26,942	28,977	28,995
Petroleum.....	30	22	73	57	24	37	23
Gas.....	1,648	1,994	2,919	2,978	2,170	2,145	1,889
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	27,827	27,700	31,502	30,770	29,135	31,158	30,906

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New Mexico									
Retail Sales (thousand megawatthours)									
Residential.....	3,566	4,124	4,937	4,999	5,238	5,418	5,635	25.8	28.4
Commercial.....	4,464	5,094	6,674	6,844	7,000	8,063	8,239	32.3	41.5
Industrial.....	4,413	5,651	5,492	5,272	5,316	5,849	5,972	31.9	30.1
Other.....	1,378	1,547	1,698	1,612	1,653	NA	NA	10.0	NA
Total.....	13,821	16,416	18,801	18,727	19,207	19,330	19,846	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	319	368	413	437	445	471	488	32.5	34.6
Commercial.....	363	403	471	513	505	593	609	37.0	43.2
Industrial.....	220	249	257	287	238	290	312	22.4	22.1
Other.....	80	92	96	103	103	NA	NA	8.2	NA
Total.....	981	1,112	1,237	1,340	1,292	1,354	1,409	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	8.94	8.93	8.36	8.74	8.50	8.69	8.67	NA	NA
Commercial.....	8.13	7.91	7.06	7.50	7.22	7.36	7.39	NA	NA
Industrial.....	4.98	4.40	4.69	5.45	4.48	4.95	5.22	NA	NA
Other.....	5.78	5.95	5.64	6.37	6.23	NA	NA	NA	NA
Total.....	7.10	6.77	6.58	7.15	6.72	7.00	7.10	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
New Mexico								
Number of Entities.....	4	8	1	21	NA	NA	NA	34
Number of Retail Customers.....	640,515	79,220	5	192,464	NA	NA	NA	912,204
Retail Sales (thousand megawatthours).....	13,536	2,074	168	4,067	NA	NA	NA	19,846
Percentage of Retail Sales.....	68.21	10.45	.85	20.49	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	970	152	5	283	NA	NA	NA	1,409
Percentage of Revenue.....	68.80	10.82	.33	20.05	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.16	7.35	2.77	6.95	NA	NA	NA	7.10

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 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. 2004 Summary Statistics

Item	Value	U.S. Rank
New York		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	37,842	6
Electric Utilities	11,386	20
Independent Power Producers & Combined Heat and Power	26,456	5
Net Generation (megawatthours).....	137,964,794	7
Electric Utilities	40,955,819	25
Independent Power Producers & Combined Heat and Power	97,008,974	5
Emissions (thousand metric tons)		
Sulfur Dioxide	236	16
Nitrogen Oxide.....	77	23
Carbon Dioxide.....	57,625	17
Sulfur Dioxide (lbs/MWh).....	3.8	30
Nitrogen Oxide (lbs/MWh).....	1.2	41
Carbon Dioxide (lbs/MWh).....	921	41
Total Retail Sales (megawatthours).....	145,081,709	5
Full Service Provider Sales (megawatthours).....	96,350,591	12
Deregulated Sales (megawatthours).....	48,731,118	2
Direct Use (megawatthours).....	4,221,296	11
Average Retail Price (cents/kWh).....	12.55	2

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
New York			
1. Ravenswood.....	Gas,Petroleum	KeySpan-Ravenswood Inc	2,386
2. Robert Moses Niagara.....	Hydroelectric	Power Authority of State of NY	2,253
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	1,649
5. Northport	Gas,Petroleum	KeySpan Generation LLC	1,563
6. Astoria Generating Station.....	Petroleum,Gas	Astoria Generating Co LP	1,275
7. Roseton Generating Station	Gas,Petroleum	Dynegy Northeast Gen Inc	1,207
8. Bowline Point.....	Gas,Petroleum	Mirant New York Inc	1,139
9. Athens Generating Plant	Gas	Athens Generating Company LLC	1,138
10. Blenheim Gilboa.....	Pumped Storage	Power Authority of State of NY	1,057

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
New York						
1. Consolidated Edison Co-NY Inc.....	Investor-Owned	29,868,303	12,672,846	16,803,719	372,432	19,306
2. Niagara Mohawk Power Corp.....	Investor-Owned	19,577,994	10,168,685	6,964,019	2,444,673	617
3. Long Island Power Authority.....	Public	19,105,719	9,182,520	9,666,377	0	256,822
4. Power Authority of State of NY.....	Power Marketer	13,940,005	0	7,257,489	4,064,408	2,618,108
5. New York State Electric & Gas.....	Investor-Owned	10,988,105	5,607,088	3,177,619	2,176,117	27,281
Total Sales, Top Five Providers.....		93,480,126	37,631,139	43,869,223	9,057,630	2,922,134
Percent of Total State Sales.....		64	79	59	44	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New York									
Electric Utilities	31,224	32,147	15,806	11,572	11,675	11,902	11,386	96.3	30.1
Coal.....	3,887	3,870	668	302	302	302	297	12.0	.8
Petroleum.....	6,142	4,621	2,353	2,283	2,288	2,320	1,245	19.0	3.3
Natural Gas.....	2,825	4,661	352	784	889	1,017	925	8.7	2.4
Dual Fired.....	8,446	6,824	4,556	3,253	3,244	3,258	4,366	26.1	11.5
Nuclear.....	4,839	4,824	3,223	498	498	498	0	14.9	.0
Hydroelectric.....	1,645	3,906	3,356	3,155	3,158	3,210	3,256	5.1	8.6
Pumped Storage.....	3,440	3,440	1,297	1,297	1,297	1,297	1,297	10.6	3.4
Independent Power Producers and Combined									
Heat and Power	1,184	5,329	19,807	24,081	24,367	24,794	26,456	3.7	69.9
Coal.....	264	395	3,267	3,812	3,843	3,925	3,904	.8	10.3
Petroleum.....	42	47	72	1,201	1,263	1,389	672	.1	1.8
Natural Gas.....	51	2,129	3,696	3,500	2,363	2,199	2,390	.2	6.3
Other Gases.....	20	20	23	0	0	0	0	.1	.0
Dual Fired.....	250	1,959	9,546	9,696	11,006	11,430	13,082	.8	34.6
Nuclear.....	0	0	1,790	4,550	4,550	4,531	5,067	.0	13.4
Hydroelectric.....	290	367	1,010	958	952	950	954	.9	2.5
Other Renewables.....	266	413	402	364	390	372	385	.8	1.0
Total Electric Industry	32,408	37,476	35,613	35,653	36,041	36,696	37,842	100.0	100.0
Coal.....	4,151	4,266	3,935	4,113	4,144	4,226	4,201	12.8	11.1
Petroleum.....	6,185	4,668	2,425	3,485	3,550	3,708	1,918	19.1	5.1
Natural Gas.....	2,876	6,789	4,049	4,285	3,253	3,216	3,316	8.9	8.8
Other Gases.....	20	20	23	0	0	0	0	.1	.0
Dual Fired.....	8,696	8,783	14,101	12,948	14,251	14,688	17,448	26.8	46.1
Nuclear.....	4,839	4,824	5,013	5,047	5,047	5,028	5,067	14.9	13.4
Hydroelectric.....	1,934	4,272	4,366	4,113	4,109	4,160	4,210	6.0	11.1
Other Renewables.....	266	413	403	365	390	373	386	.8	1.0
Pumped Storage.....	3,440	3,440	1,297	1,297	1,297	1,297	1,297	10.6	3.4

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New York									
Electric Utilities	128,655,291	101,160,796	73,187,745	58,568,850	43,466,278	41,578,894	40,955,819	95.1	29.7
Coal.....	24,616,655	19,943,312	4,025,614	2,087,952	1,682,022	1,693,854	1,707,414	18.2	1.2
Petroleum.....	33,404,291	7,834,878	11,449,092	9,177,172	7,434,611	9,681,490	9,159,172	24.7	6.6
Natural Gas.....	21,262,936	23,414,071	8,968,658	8,871,000	10,798,275	7,737,717	7,210,772	15.7	5.2
Nuclear.....	23,623,356	26,336,172	29,888,320	20,753,492	3,826,848	3,864,019	1,917,259	17.5	1.4
Hydroelectric.....	26,802,148	24,782,142	19,846,498	18,609,754	20,645,746	19,513,620	21,774,373	19.8	15.8
Other Renewables.....	0	12,234	0	0	0	0	0	.0	.0
Pumped Storage.....	-1,054,095	-1,162,013	-990,437	-930,520	-921,224	-911,806	-813,171	-.8	-.6
Independent Power Producers and Combined									
Heat and Power	6,690,401	32,252,485	64,891,330	85,345,709	96,125,411	96,064,422	97,008,974	4.9	70.3
Coal.....	1,296,392	2,345,601	20,983,967	21,343,970	21,557,091	21,887,213	21,146,482	1.0	15.3
Petroleum.....	480,564	433,412	3,496,087	7,334,921	4,099,498	9,610,109	11,998,634	.4	8.7
Natural Gas.....	1,461,399	25,642,435	30,760,051	29,826,215	27,652,917	20,418,631	20,114,103	1.1	14.6
Other Gases.....	89,034	96,673	86,201	114,537	0	0	0	.1	.0
Nuclear.....	0	0	1,619,668	19,641,493	35,790,643	36,815,186	38,723,046	.0	28.1
Hydroelectric.....	1,386,074	1,211,055	5,063,074	4,474,201	4,402,149	4,755,040	2,215,289	1.0	1.6
Other Renewables.....	1,976,938	2,523,309	2,882,282	2,610,372	2,623,111	2,578,242	2,811,421	1.5	2.0
Total Electric Industry	135,345,692	133,413,281	138,079,075	143,914,559	139,591,688	137,643,316	137,964,794	100.0	100.0
Coal.....	25,913,047	22,288,913	25,009,581	23,431,922	23,239,113	23,581,067	22,853,896	19.1	16.6
Petroleum.....	33,884,855	8,268,290	14,945,179	16,512,093	11,534,109	19,291,599	21,157,806	25.0	15.3
Natural Gas.....	22,724,335	49,056,506	39,728,709	38,697,215	38,451,192	28,156,348	27,324,875	16.8	19.8
Other Gases.....	89,034	96,673	86,201	114,537	0	0	0	.1	.0
Nuclear.....	23,623,356	26,336,172	31,507,988	40,394,985	39,617,491	40,679,205	40,640,305	17.5	29.5
Hydroelectric.....	28,188,222	25,993,197	24,909,572	23,083,955	25,047,895	24,268,660	23,989,662	20.8	17.4
Other Renewables.....	1,976,938	2,535,543	2,882,282	2,610,372	2,623,111	2,578,242	2,811,421	1.5	2.0
Pumped Storage.....	-1,054,095	-1,162,013	-990,437	-930,520	-921,224	-911,806	-813,171	-.8	-.6

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
New York							
Coal (cents per million Btu).....	161.3	141.2	149.1	141.6	155.0	159.5	175.6
Average heat value (Btu per pound).....	12,846	13,051	13,117	13,029	12,825	12,545	12,063
Average sulfur Content (percent).....	1.8	1.8	1.1	2.0	1.8	1.8	1.7
Petroleum (cents per million Btu).....	360.3	263.4	430.6	350.2	365.9	493.2	486.2
Average heat value (Btu per gallon).....	150,037	148,625	151,162	149,429	148,476	149,998	149,024
Average sulfur Content (percent).....	.8	.6	.8	.6	1.0	.7	.9
Natural Gas (cents per million Btu).....	238.2	208.0	459.6	404.7	398.7	605.0	652.6
Average heat value (Btu per cubic foot).....	1,033	1,026	1,019	1,019	1,019	1,025	1,021

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
New York							
Sulfur Dioxide							
Coal	271	200	201	175	171	187	158
Petroleum.....	138	27	59	59	42	70	76
Natural Gas	*	*	*	*	*	*	*
Other.....	8	3	1	1	1	2	2
Total.....	417	229	261	235	214	259	236
Nitrogen Oxide							
Coal	106	81	53	49	46	39	33
Petroleum.....	51	12	16	18	11	23	24
Gas.....	30	50	21	19	21	13	12
Other.....	6	6	5	4	4	7	8
Total.....	193	149	94	91	83	81	77
Carbon Dioxide							
Coal	26,040	23,441	25,629	24,411	23,523	24,099	23,388
Petroleum.....	28,125	7,170	13,013	14,163	10,036	16,322	18,028
Gas.....	13,072	25,473	21,220	20,189	20,696	14,993	14,605
Geothermal.....	0	0	0	0	0	0	0
Other.....	305	396	425	426	1,514	1,531	1,604
Total.....	67,543	56,480	60,287	59,190	55,769	56,944	57,625

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
New York									
Retail Sales (thousand megawatthours)									
Residential.....	38,574	39,887	43,018	44,236	46,457	47,116	47,379	29.8	32.7
Commercial	46,921	52,751	59,764	60,806	62,271	72,495	74,378	36.3	51.3
Industrial	31,929	25,317	25,838	25,450	25,148	21,745	20,675	24.7	14.3
Other	11,900	12,515	13,407	13,689	13,565	NA	NA	9.2	NA
Transportation.....	NA	NA	NA	NA	NA	2,689	2,650	NA	1.8
Total.....	129,324	130,471	142,027	144,181	147,440	144,045	145,082	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	4,414	5,544	6,010	6,209	6,295	6,743	6,890	36.4	37.8
Commercial	4,911	6,290	7,562	7,827	7,681	9,372	9,654	40.5	53.0
Industrial	1,846	1,466	1,389	1,414	1,302	1,552	1,455	15.2	8.0
Other	947	1,135	1,206	1,201	1,177	NA	NA	7.8	NA
Transportation.....	NA	NA	NA	NA	NA	252	210	NA	1.2
Total.....	12,119	14,435	16,167	16,651	16,454	17,920	18,209	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	11.44	13.90	13.97	14.04	13.55	14.31	14.54	NA	NA
Commercial	10.47	11.92	12.65	12.87	12.33	12.93	12.98	NA	NA
Industrial	5.78	5.79	5.37	5.56	5.18	7.14	7.04	NA	NA
Other	7.96	9.07	8.99	8.77	8.68	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	9.38	7.92	NA	NA
Total.....	9.37	11.06	11.38	11.55	11.16	12.44	12.55	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
New York								
Number of Entities.....	9	48	NA	4	4	26	8	99
Number of Retail Customers.....	6,143,927	1,251,676	NA	17,037	4	374,038	NA	7,786,682
Retail Sales (thousand megawatthours)	72,030	23,762	NA	188	370	48,731	NA	145,082
Percentage of Retail Sales	49.65	16.38	NA	.13	.26	33.59	NA	100.00
Revenue from Retail Sales (million dollars)	9,942	3,052	NA	17	31	3,455	1,712	18,209
Percentage of Revenue.....	54.60	16.76	NA	.09	.17	18.97	9.40	100.00
Average Retail Price (cents/kWh).....	13.80	12.84	NA	8.82	8.42	7.09	3.51	12.55

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. 2004 Summary Statistics

Item	Value	U.S. Rank
North Carolina		
NERC Region(s).....		SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	27,110	12
Electric Utilities	23,671	6
Independent Power Producers & Combined Heat and Power	3,439	26
Net Generation (megawatthours).....	126,329,957	11
Electric Utilities	118,328,694	4
Independent Power Producers & Combined Heat and Power	8,001,263	28
Emissions (thousand metric tons)		
Sulfur Dioxide	456	7
Nitrogen Oxide	115	13
Carbon Dioxide	72,590	13
Sulfur Dioxide (lbs/MWh).....	7.9	12
Nitrogen Oxide (lbs/MWh).....	2.0	31
Carbon Dioxide (lbs/MWh).....	1,267	33
Total Retail Sales (megawatthours).....	125,656,807	9
Full Service Provider Sales (megawatthours).....	125,656,807	7
Direct Use (megawatthours).....	4,095,759	12
Average Retail Price (cents/kWh).....	6.97	23

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
North Carolina			
1. Roxboro	Petroleum,Coal	Carolina Power & Light Co	2,477
2. Belews Creek.....	Petroleum,Coal	Duke Energy Corp	2,270
3. McGuire	Nuclear	Duke Energy Corp	2,200
4. Marshall.....	Petroleum,Coal	Duke Energy Corp	2,110
5. Brunswick.....	Nuclear	Carolina Power & Light Co	1,838
6. Lincoln Combustion	Gas,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	1,145
9. Rowan	Petroleum,Gas	Progress Energy Ventures	977
10. Harris	Nuclear	Carolina Power & Light Co	900

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
North Carolina						
1. Duke Energy Corp.....	Investor-Owned	54,462,402	19,170,431	20,102,145	15,189,826	0
2. Carolina Power & Light Co.....	Investor-Owned	36,224,575	13,862,509	12,626,697	9,735,369	0
3. Dominion Virginia Power	Investor-Owned	4,204,474	1,487,529	924,918	1,792,027	0
4. Fayetteville Public Works Comm.....	Public	2,086,326	880,609	824,463	381,254	0
5. EnergyUnited Elec Member Corp.....	Cooperative	2,030,729	1,443,247	462,505	124,977	0
Total Sales, Top Five Providers.....		99,008,506	36,844,325	34,940,728	27,223,453	0
Percent of Total State Sales		79	71	82	88	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
North Carolina									
Electric Utilities	20,190	20,597	22,015	23,478	23,652	23,726	23,671	94.8	87.3
Coal.....	12,500	12,440	12,440	12,440	12,440	12,440	12,495	58.7	46.1
Petroleum.....	299	340	354	354	400	400	403	1.4	1.5
Natural Gas.....	93	96	929	1,109	2,270	2,270	1,404	.4	5.2
Dual Fired.....	639	1,554	2,016	3,258	2,176	2,176	2,769	3.0	10.2
Nuclear.....	4,698	4,639	4,691	4,731	4,731	4,783	4,938	22.1	18.2
Hydroelectric	1,894	1,528	1,490	1,490	1,538	1,562	1,567	8.9	5.8
Other Renewables.....	0	0	0	2	2	0	0	.0	.0
Pumped Storage.....	68	0	94	94	94	94	95	.3	.3
Independent Power Producers and Combined									
Heat and Power.....	1,110	1,798	2,465	2,599	3,023	3,537	3,439	5.2	12.7
Coal.....	613	965	925	882	828	828	731	2.9	2.7
Petroleum.....	6	34	49	45	46	50	49	*	.2
Natural Gas.....	9	0	17	46	54	566	395	*	1.5
Dual Fired.....	157	203	876	957	1,415	1,415	1,572	.7	5.8
Hydroelectric	9	362	370	377	377	377	385	*	1.4
Other Renewables.....	276	196	191	253	266	265	270	1.3	1.0
Other	37	37	37	37	37	37	37	.2	.1
Total Electric Industry	21,300	22,394	24,479	26,076	26,674	27,263	27,110	100.0	100.0
Coal.....	13,114	13,405	13,365	13,322	13,268	13,268	13,226	61.6	48.8
Petroleum.....	305	373	403	400	447	451	453	1.4	1.7
Natural Gas.....	101	96	946	1,156	2,324	2,836	1,799	.5	6.6
Dual Fired.....	796	1,758	2,892	4,215	3,591	3,591	4,340	3.7	16.0
Nuclear.....	4,698	4,639	4,691	4,731	4,731	4,783	4,938	22.1	18.2
Hydroelectric	1,903	1,890	1,860	1,867	1,914	1,939	1,951	8.9	7.2
Other Renewables.....	277	196	191	255	268	264	270	1.3	1.0
Pumped Storage.....	68	0	94	94	94	94	95	.3	.3
Other	37	37	37	37	37	37	37	.2	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
North Carolina									
Electric Utilities	79,845,217	96,109,819	114,433,191	109,807,278	115,597,653	118,433,112	118,328,694	94.0	93.7
Coal.....	46,631,040	55,698,342	71,719,489	68,775,284	71,223,313	70,630,278	71,956,852	54.9	57.0
Petroleum.....	186,899	234,263	468,482	412,765	376,170	459,947	250,402	.2	.2
Natural Gas.....	165,362	252,862	839,137	999,515	1,935,684	1,257,328	2,019,290	.2	1.6
Nuclear.....	25,905,319	35,910,195	39,126,881	37,775,025	39,626,849	40,906,900	40,090,623	30.5	31.7
Hydroelectric.....	6,776,551	3,846,840	2,171,100	1,844,689	2,410,462	5,059,386	3,933,276	8.0	3.1
Pumped Storage.....	180,046	167,317	108,102	0	25,175	119,273	78,251	.2	.1
Independent Power Producers and Combined									
Heat and Power	5,080,550	10,184,837	7,841,165	7,688,572	8,870,376	9,149,207	8,001,262	6.0	6.3
Coal.....	3,190,555	5,786,656	4,225,974	4,182,483	3,964,428	4,145,953	3,590,713	3.8	2.8
Petroleum.....	141,126	245,355	357,349	242,979	215,856	323,748	329,825	.2	.3
Natural Gas.....	38,103	518,826	291,116	534,840	1,625,186	323,038	524,372	*	.4
Other Gases.....	0	0	0	991	863	17	0	.0	.0
Hydroelectric.....	42,876	1,673,970	966,716	751,016	1,081,586	2,141,558	1,501,923	*	1.2
Other Renewables.....	1,464,484	1,700,900	1,773,567	1,780,611	1,818,279	2,031,422	1,842,609	1.7	1.5
Other.....	203,406	259,130	226,443	195,652	164,178	183,472	211,820	.2	.2
Total Electric Industry	84,925,767	106,294,656	122,274,356	117,495,850	124,468,030	127,582,319	126,329,957	100.0	100.0
Coal.....	49,821,595	61,484,998	75,945,463	72,957,767	75,187,741	74,776,231	75,547,565	58.7	59.8
Petroleum.....	328,025	479,618	825,831	655,744	592,026	783,695	580,227	.4	.5
Natural Gas.....	203,465	771,688	1,130,253	1,534,355	3,560,870	1,580,366	2,543,662	.2	2.0
Other Gases.....	0	0	0	991	863	17	0	.0	.0
Nuclear.....	25,905,319	35,910,195	39,126,881	37,775,025	39,626,849	40,906,900	40,090,623	30.5	31.7
Hydroelectric.....	6,819,427	5,520,810	3,137,816	2,595,705	3,492,048	7,200,944	5,435,199	8.0	4.3
Other Renewables.....	1,464,484	1,700,900	1,773,567	1,780,611	1,818,279	2,031,422	1,842,609	1.7	1.5
Pumped Storage.....	180,046	167,317	108,102	0	25,175	119,273	78,251	.2	.1
Other.....	203,406	259,130	226,443	195,652	164,178	183,472	211,820	.2	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
North Carolina							
Coal (cents per million Btu).....	178.0	162.8	142.7	159.3	176.1	178.4	200.0
Average heat value (Btu per pound).....	12,544	12,461	12,448	12,383	12,342	12,423	12,345
Average sulfur Content (percent).....	1.0	.9	.8	.9	.8	.9	.9
Petroleum (cents per million Btu).....	512.1	381.5	615.6	584.3	466.5	622.7	714.8
Average heat value (Btu per gallon).....	138,230	138,149	138,361	146,095	145,562	140,848	141,338
Average sulfur Content (percent).....	.2	.3	.3	.2	1.0	.5	.7
Natural Gas (cents per million Btu).....	.0	232.8	432.2	435.0	343.9	560.4	658.4
Average heat value (Btu per cubic foot).....	0	1,033	1,026	1,021	1,010	1,032	1,036

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
North Carolina							
Sulfur Dioxide							
Coal	343	356	438	435	446	437	443
Petroleum.....	5	1	13	11	9	4	2
Natural Gas	0	0	*	*	*	*	0
Other.....	16	16	14	13	11	10	11
Total.....	364	373	464	459	466	450	456
Nitrogen Oxide							
Coal	197	212	167	153	153	133	113
Petroleum.....	1	1	2	2	1	2	*
Gas.....	1	1	1	1	1	*	*
Other.....	4	4	4	4	4	3	1
Total.....	203	218	174	160	159	138	115
Carbon Dioxide							
Coal	48,081	58,014	71,119	68,341	69,797	69,848	70,338
Petroleum.....	808	1,181	1,595	1,262	1,069	1,258	957
Gas.....	226	633	738	932	1,740	789	1,190
Geothermal.....	0	0	0	0	0	0	0
Other.....	11	17	11	24	61	82	105
Total.....	49,126	59,844	73,463	70,559	72,666	71,977	72,590

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
North Carolina									
Retail Sales (thousand megawatthours)									
Residential.....	33,144	39,506	46,537	46,201	49,854	49,349	51,717	36.9	41.2
Commercial	23,835	29,195	36,859	37,744	39,277	41,672	42,864	26.5	34.1
Industrial.....	31,265	34,063	34,252	32,931	31,381	30,314	31,075	34.8	24.7
Other	1,681	1,909	2,208	2,151	2,174	NA	NA	1.9	NA
Total.....	89,924	104,673	119,855	119,027	122,686	121,335	125,657	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	2,599	3,207	3,709	3,750	4,085	4,106	4,369	45.3	49.9
Commercial	1,531	1,888	2,345	2,423	2,559	2,770	2,871	26.7	32.8
Industrial.....	1,492	1,652	1,569	1,518	1,474	1,453	1,516	26.0	17.3
Other	118	138	144	144	146	NA	NA	2.1	NA
Total.....	5,740	6,885	7,767	7,835	8,263	8,329	8,756	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.84	8.12	7.97	8.12	8.19	8.32	8.45	NA	NA
Commercial	6.42	6.47	6.36	6.42	6.51	6.65	6.70	NA	NA
Industrial.....	4.77	4.85	4.58	4.61	4.70	4.79	4.88	NA	NA
Other	7.00	7.21	6.53	6.68	6.70	NA	NA	NA	NA
Total.....	6.38	6.58	6.48	6.58	6.73	6.86	6.97	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
North Carolina								
Number of Entities.....	3	72	1	32	NA	NA	NA	108
Number of Retail Customers.....	2,979,604	553,037	4	918,410	NA	NA	NA	4,451,055
Retail Sales (thousand megawatthours)	94,891	15,246	5	15,515	NA	NA	NA	125,657
Percentage of Retail Sales	75.52	12.13	*	12.35	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	6,170	1,231	*	1,354	NA	NA	NA	8,756
Percentage of Revenue.....	70.47	14.06	*	15.47	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.50	8.08	4.66	8.73	NA	NA	NA	6.97

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. 2004 Summary Statistics

Item	Value	U.S. Rank
North Dakota		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	4,774	41
Electric Utilities	4,673	35
Independent Power Producers & Combined Heat and Power	102	49
Net Generation (megawatthours).....	29,936,106	40
Electric Utilities	29,526,814	34
Independent Power Producers & Combined Heat and Power	409,292	47
Emissions (thousand metric tons)		
Sulfur Dioxide	137	20
Nitrogen Oxide.....	72	24
Carbon Dioxide.....	30,397	31
Sulfur Dioxide (lbs/MWh).....	10.1	7
Nitrogen Oxide (lbs/MWh).....	5.3	1
Carbon Dioxide (lbs/MWh).....	2,239	2
Total Retail Sales (megawatthours).....	10,516,400	47
Full Service Provider Sales (megawatthours).....	10,516,400	44
Direct Use (megawatthours).....	166,732	44
Average Retail Price (cents/kWh).....	5.69	45

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
North Dakota			
1. Coal Creek.....	Petroleum,Coal	Great River Energy	1,114
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. Garrison.....	Hydroelectric	USCE-Missouri River District	485
6. Coyote.....	Petroleum,Coal	Otter Tail Power Co	427
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	43

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
North Dakota						
1. Northern States Power Co.....	Investor-Owned	2,073,361	719,108	996,599	357,654	0
2. Otter Tail Power Co.....	Investor-Owned	1,493,625	515,892	917,467	60,266	0
3. MDU Resources Group Inc.....	Investor-Owned	1,323,280	491,711	702,925	128,644	0
4. Basin Electric Power Coop.....	Cooperative	865,869	0	0	865,869	0
5. Cass County Electric Coop Inc.....	Cooperative	710,523	396,508	255,820	58,195	0
Total Sales, Top Five Providers.....		6,466,658	2,123,219	2,872,811	1,470,628	0
Percent of Total State Sales.....		61	58	75	49	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
North Dakota									
Electric Utilities	4,525	4,485	4,678	4,677	4,659	4,562	4,673	99.4	97.9
Coal.....	3,876	3,862	4,107	4,107	4,084	4,107	4,105	85.1	86.0
Petroleum.....	94	69	65	64	69	72	71	2.1	1.5
Natural Gas.....	10	10	10	10	10	10	10	.2	.2
Hydroelectric.....	545	545	497	497	497	371	485	12.0	10.2
Other Renewables.....	0	0	0	0	0	3	3	.0	.1
Independent Power Producers and Combined									
Heat and Power	29	35	37	40	40	102	102	.6	2.1
Coal.....	18	18	20	21	21	21	21	.4	.4
Natural Gas.....	3	0	0	0	0	0	0	.1	.0
Other Gases.....	0	7	7	8	8	8	8	.0	.2
Dual Fired.....	7	0	0	0	0	0	0	.2	.0
Other Renewables.....	0	9	9	10	10	72	72	.0	1.5
Total Electric Industry	4,553	4,520	4,715	4,717	4,699	4,663	4,774	100.0	100.0
Coal.....	3,894	3,880	4,127	4,128	4,105	4,129	4,126	85.5	86.4
Petroleum.....	94	69	65	64	69	72	71	2.1	1.5
Natural Gas.....	13	10	10	10	10	10	10	.3	.2
Other Gases.....	0	7	7	8	8	8	8	.0	.2
Dual Fired.....	7	0	0	0	0	0	0	.2	.0
Hydroelectric.....	545	545	497	497	497	371	485	12.0	10.2
Other Renewables.....	0	9	9	10	10	74	74	.0	1.5

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
North Dakota									
Electric Utilities	26,824,491	28,842,021	31,122,917	30,135,733	31,147,221	31,075,012	29,526,814	99.4	98.6
Coal.....	25,092,696	26,336,456	28,952,976	28,769,721	29,518,865	29,298,347	27,938,264	93.0	93.3
Petroleum.....	20,682	49,107	47,457	33,850	35,728	45,648	36,565	.1	.1
Natural Gas.....	-35	-943	-77	86	12	-47	265	.0	*
Hydroelectric.....	1,711,148	2,457,401	2,122,561	1,332,076	1,592,616	1,723,904	1,545,864	6.3	5.2
Other Renewables.....	0	0	0	0	0	7,160	5,856	.0	*
Independent Power Producers and Combined									
Heat and Power	168,770	162,226	188,279	196,339	159,091	247,117	409,292	.6	1.4
Coal.....	96,307	87,415	116,227	107,454	92,659	128,964	125,960	.4	.4
Petroleum.....	20,865	8,584	13,500	14,036	2,848	6,244	1,912	.1	*
Natural Gas.....	51,598	595	2,164	2,450	8,030	9,493	6,485	.2	*
Other Gases.....	0	43,673	48,413	64,734	55,144	50,096	60,665	.0	.2
Other Renewables.....	0	21,959	7,975	7,665	410	52,320	214,270	.0	.7
Total Electric Industry	26,993,261	29,004,247	31,311,196	30,332,072	31,306,312	31,322,129	29,936,106	100.0	100.0
Coal.....	25,189,003	26,423,871	29,069,203	28,877,175	29,611,524	29,427,311	28,064,224	93.3	93.7
Petroleum.....	41,547	57,691	60,957	47,886	38,576	51,892	38,477	.2	.1
Natural Gas.....	51,563	-348	2,087	2,536	8,042	9,446	6,750	.2	*
Other Gases.....	0	43,673	48,413	64,734	55,144	50,096	60,665	.0	.2
Hydroelectric.....	1,711,148	2,457,401	2,122,561	1,332,076	1,592,616	1,723,904	1,545,864	6.3	5.2
Other Renewables.....	0	21,959	7,975	7,665	410	59,480	220,126	.0	.7

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
North Dakota							
Coal (cents per million Btu)	68.6	73.3	72.4	74.1	74.3	74.2	77.3
Average heat value (Btu per pound).....	6,636	6,585	6,528	6,564	6,523	6,549	6,602
Average sulfur Content (percent).....	.8	.7	.7	.7	.7	.7	.7
Petroleum (cents per million Btu).....	499.1	417.5	692.3	638.5	572.8	675.9	862.9
Average heat value (Btu per gallon).....	139,277	139,176	138,960	142,048	141,343	138,995	138,410
Average sulfur Content (percent).....	.7	.4	.4	.4	.4	.4	.4
Natural Gas (cents per million Btu)	386.2	349.4	639.9	687.5	247.9	744.3	778.3
Average heat value (Btu per cubic foot)	1,038	1,066	1,045	1,040	950	1,030	1,034

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
North Dakota							
Sulfur Dioxide							
Coal	133	123	142	144	131	128	137
Petroleum.....	1	*	*	*	*	*	*
Natural Gas	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	*	*
Total.....	133	124	142	144	131	128	137
Nitrogen Oxide							
Coal	68	65	72	73	70	70	72
Petroleum.....	*	*	*	*	*	*	*
Gas.....	*	0	*	*	*	*	*
Other.....	0	0	*	*	0	*	*
Total.....	69	65	72	73	70	70	72
Carbon Dioxide							
Coal	28,094	29,810	32,840	32,323	32,110	31,684	30,329
Petroleum.....	113	79	87	75	43	63	39
Gas.....	121	2	5	6	27	23	29
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	28,328	29,891	32,932	32,404	32,180	31,770	30,397

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
North Dakota									
Retail Sales (thousand megawatthours)									
Residential.....	2,954	3,384	3,390	3,480	3,664	3,707	3,663	42.1	34.8
Commercial.....	1,795	2,237	2,554	3,071	3,404	3,800	3,843	25.6	36.5
Industrial.....	1,760	1,771	3,031	2,753	2,636	2,954	3,010	25.1	28.6
Other.....	506	490	438	506	516	NA	NA	7.2	NA
Total.....	7,014	7,883	9,413	9,810	10,219	10,461	10,516	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	185	211	218	225	234	241	249	45.9	41.6
Commercial.....	116	139	155	184	199	214	225	28.8	37.6
Industrial.....	84	80	121	110	105	117	124	20.8	20.7
Other.....	18	21	18	19	19	NA	NA	4.5	NA
Total.....	403	450	512	538	557	572	599	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.25	6.23	6.43	6.47	6.39	6.49	6.79	NA	NA
Commercial.....	6.45	6.20	6.08	5.99	5.85	5.64	5.86	NA	NA
Industrial.....	4.79	4.50	3.98	3.98	3.98	3.96	4.13	NA	NA
Other.....	3.66	4.21	4.19	3.79	3.68	NA	NA	NA	NA
Total.....	5.75	5.70	5.44	5.48	5.45	5.47	5.69	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
North Dakota								
Number of Entities.....	3	12	1	23	NA	NA	NA	39
Number of Retail Customers.....	215,491	11,420	28	134,068	NA	NA	NA	361,007
Retail Sales (thousand megawatthours).....	4,890	270	200	5,157	NA	NA	NA	10,516
Percentage of Retail Sales.....	46.50	2.56	1.90	49.04	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	297	13	3	285	NA	NA	NA	599
Percentage of Revenue.....	49.63	2.24	.52	47.61	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.07	4.98	1.55	5.53	NA	NA	NA	5.69

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Ohio		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	34,050	8
Electric Utilities	27,684	2
Independent Power Producers & Combined Heat and Power	6,367	17
Net Generation (megawatthours)	148,345,905	6
Electric Utilities	142,305,499	2
Independent Power Producers & Combined Heat and Power	6,040,406	32
Emissions (thousand metric tons)		
Sulfur Dioxide	1,050	1
Nitrogen Oxide.....	254	1
Carbon Dioxide	123,128	3
Sulfur Dioxide (lbs/MWh).....	15.6	1
Nitrogen Oxide (lbs/MWh).....	3.8	11
Carbon Dioxide (lbs/MWh).....	1,830	12
Total Retail Sales (megawatthours)	154,221,114	4
Full Service Provider Sales (megawatthours).....	126,339,309	6
Deregulated Sales (megawatthours)	27,881,805	3
Direct Use (megawatthours).....	1,487,894	25
Average Retail Price (cents/kWh).....	6.89	26

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Ohio			
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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Ohio						
1. Ohio Power Co.....	Investor-Owned	27,563,877	7,116,217	5,642,300	14,805,360	0
2. Cincinnati Gas & Electric Co.....	Investor-Owned	17,388,667	6,862,947	5,784,581	4,741,139	0
3. Columbus Southern Power Co.....	Investor-Owned	17,204,491	6,900,066	7,573,988	2,730,437	0
4. Ohio Edison Co.....	Investor-Owned	16,813,264	6,126,329	4,223,782	6,463,153	0
5. Dayton Power & Light Co.....	Investor-Owned	11,074,096	5,140,258	4,366,968	1,560,049	6,821
Total Sales, Top Five Providers.....		90,044,395	32,145,817	27,591,619	30,300,138	6,821
Percent of Total State Sales.....		58	64	61	52	14

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Ohio									
Electric Utilities	26,996	27,365	26,302	27,081	27,885	27,694	27,684	98.8	81.3
Coal.....	23,086	23,123	21,675	21,675	21,599	21,258	21,366	84.5	62.7
Petroleum.....	1,113	797	978	985	947	946	958	4.1	2.8
Natural Gas.....	24	596	582	943	1,834	2,032	1,670	.1	4.9
Dual Fired.....	515	600	771	1,114	1,140	1,095	1,453	1.9	4.3
Nuclear.....	2,043	2,042	2,042	2,111	2,111	2,108	2,108	7.5	6.2
Hydroelectric.....	125	117	164	163	164	162	122	.5	.4
Other Renewables.....	90	90	90	90	90	94	7	.3	*
Independent Power Producers and Combined									
Heat and Power	329	328	2,199	2,472	3,593	6,366	6,367	1.2	18.7
Coal.....	193	198	1,059	1,100	1,100	1,095	1,047	.7	3.1
Petroleum.....	0	6	55	49	49	49	49	.0	.1
Natural Gas.....	9	2	899	750	810	3,589	3,578	*	10.5
Other Gases.....	63	73	82	84	81	81	100	.2	.3
Dual Fired.....	32	18	86	472	1,535	1,535	1,535	.1	4.5
Hydroelectric.....	2	3	0	0	0	0	0	*	.0
Other Renewables.....	29	29	19	18	18	18	58	.1	.2
Total Electric Industry	27,324	27,693	28,501	29,553	31,477	34,060	34,050	100.0	100.0
Coal.....	23,279	23,320	22,733	22,774	22,698	22,352	22,412	85.2	65.8
Petroleum.....	1,113	803	1,033	1,034	996	995	1,007	4.1	3.0
Natural Gas.....	32	598	1,481	1,694	2,644	5,621	5,248	.1	15.4
Other Gases.....	63	73	82	84	81	81	100	.2	.3
Dual Fired.....	548	618	857	1,586	2,675	2,630	2,988	2.0	8.8
Nuclear.....	2,043	2,042	2,042	2,111	2,111	2,108	2,108	7.5	6.2
Hydroelectric.....	127	120	164	163	164	162	122	.5	.4
Other Renewables.....	119	119	109	107	107	111	65	.4	.2

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Ohio									
Electric Utilities	126,509,829	137,860,132	144,358,306	135,484,174	139,904,106	139,086,083	142,305,499	98.9	95.9
Coal.....	115,014,081	120,043,024	126,225,740	118,766,821	127,373,404	129,255,272	124,004,082	89.9	83.6
Petroleum.....	301,244	298,119	342,319	406,434	380,710	387,257	1,354,023	.2	.9
Natural Gas.....	91,191	523,480	425,821	336,372	796,761	456,255	266,954	.1	.2
Nuclear.....	10,663,897	16,768,050	16,781,378	15,463,762	10,864,902	8,475,016	15,950,121	8.3	10.8
Hydroelectric.....	172,582	227,459	583,048	510,785	488,329	510,835	729,876	.1	.5
Other Renewables.....	266,834	0	0	0	0	1,448	443	.2	.0
Independent Power Producers and Combined									
Heat and Power	1,470,698	1,483,770	4,701,974	6,777,633	7,164,743	7,552,045	6,040,406	1.1	4.1
Coal.....	818,569	586,404	3,352,804	5,446,415	5,579,661	5,513,865	4,212,989	.6	2.8
Petroleum.....	73,237	31,945	12,093	10,264	8,409	22,897	34,859	.1	*
Natural Gas.....	150,394	201,341	399,333	588,044	969,893	1,337,328	1,119,303	.1	.8
Other Gases.....	64,159	139,069	290,353	301,949	206,565	212,523	302,628	*	.2
Hydroelectric.....	8,813	4,762	0	0	0	0	0	*	.0
Other Renewables.....	355,526	520,249	647,391	430,961	151,311	439,269	370,625	.3	.3
Other.....	0	0	0	0	248,904	26,163	0	.0	.0
Total Electric Industry	127,980,527	139,343,902	149,060,280	142,261,807	147,068,850	146,638,128	148,345,905	100.0	100.0
Coal.....	115,832,650	120,629,428	129,578,544	124,213,236	132,953,065	134,769,137	128,217,071	90.5	86.4
Petroleum.....	374,481	330,064	354,412	416,698	389,119	410,154	1,388,882	.3	.9
Natural Gas.....	241,585	724,821	825,154	924,416	1,766,654	1,793,583	1,386,257	.2	.9
Other Gases.....	64,159	139,069	290,353	301,949	206,565	212,523	302,628	*	.2
Nuclear.....	10,663,897	16,768,050	16,781,378	15,463,762	10,864,902	8,475,016	15,950,121	8.3	10.8
Hydroelectric.....	181,395	232,221	583,048	510,785	488,329	510,835	729,876	.1	.5
Other Renewables.....	622,360	520,249	647,391	430,961	151,311	440,717	371,068	.5	.3
Other.....	0	0	0	0	248,904	26,163	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Ohio							
Coal (cents per million Btu).....	151.5	142.0	145.7	131.0	W	121.2	133.2
Average heat value (Btu per pound).....	11,882	12,122	11,823	11,553	11,644	12,160	12,098
Average sulfur Content (percent).....	2.4	1.9	1.9	2.1	2.0	2.1	2.3
Petroleum (cents per million Btu).....	458.8	348.7	634.7	600.9	W	730.9	W
Average heat value (Btu per gallon).....	142,918	128,733	133,587	142,310	138,681	137,810	137,986
Average sulfur Content (percent).....	.5	.8	.4	.2	.1	.2	.2
Natural Gas (cents per million Btu).....	254.6	227.7	485.5	797.2	374.7	598.0	647.8
Average heat value (Btu per cubic foot).....	1,008	1,027	1,025	1,019	1,026	1,037	1,034

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Ohio							
Sulfur Dioxide							
Coal	2,008	1,108	1,159	1,075	1,073	1,135	1,044
Petroleum.....	4	3	*	9	11	4	4
Natural Gas	0	0	*	0	*	*	*
Other.....	2	7	10	2	2	2	2
Total.....	2,014	1,118	1,169	1,086	1,085	1,141	1,050
Nitrogen Oxide							
Coal	500	474	354	315	346	330	250
Petroleum.....	1	1	*	1	1	3	2
Gas.....	1	1	2	2	1	1	1
Other.....	2	1	2	1	1	1	1
Total.....	503	478	358	319	349	335	254
Carbon Dioxide							
Coal	108,067	113,331	122,697	116,286	121,419	126,072	121,249
Petroleum.....	748	790	382	395	303	408	684
Gas.....	311	690	1,193	1,162	1,363	1,223	1,180
Geothermal.....	0	0	0	0	0	0	0
Other.....	318	9	0	0	0	0	14
Total.....	109,444	114,820	124,272	117,843	123,085	127,703	123,128

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Ohio									
Retail Sales (thousand megawatthours)									
Residential.....	37,889	44,010	46,488	47,346	50,864	49,621	50,300	26.6	32.6
Commercial	30,541	35,549	40,757	39,372	39,924	44,737	45,313	21.4	29.4
Industrial.....	69,682	74,473	74,019	65,099	58,472	57,828	58,558	48.9	38.0
Other	4,354	4,592	3,930	3,981	4,148	NA	NA	3.1	NA
Transportation.....	NA	NA	NA	NA	NA	5	49	NA	.0
Total.....	142,465	158,626	165,195	155,798	153,407	152,189	154,221	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	3,049	3,784	4,002	3,963	4,193	4,100	4,251	36.3	40.0
Commercial	2,269	2,731	3,102	3,333	3,119	3,377	3,510	27.0	33.0
Industrial.....	2,808	3,104	3,237	2,780	2,845	2,768	2,864	33.5	26.9
Other	267	287	240	233	225	NA	NA	3.2	NA
Transportation.....	NA	NA	NA	NA	NA	0	5	NA	.0
Total.....	8,393	9,906	10,581	10,309	10,383	10,246	10,629	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	8.05	8.60	8.61	8.37	8.24	8.26	8.45	NA	NA
Commercial	7.43	7.68	7.61	8.46	7.81	7.55	7.75	NA	NA
Industrial.....	4.03	4.17	4.37	4.27	4.87	4.79	4.89	NA	NA
Other	6.14	6.26	6.10	5.86	5.41	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	6.17	9.21	NA	NA
Total.....	5.89	6.24	6.40	6.62	6.77	6.73	6.89	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Ohio								
Number of Entities.....	9	85	NA	25	1	12	7	139
Number of Retail Customers.....	3,696,420	372,705	NA	365,176	1	1,008,099	NA	5,442,401
Retail Sales (thousand megawatthours)	109,426	9,611	NA	7,170	132	27,882	NA	154,221
Percentage of Retail Sales	70.95	6.23	NA	4.65	.09	18.08	NA	100.00
Revenue from Retail Sales (million dollars)	7,135	676	NA	527	5	1,139	1,148	10,629
Percentage of Revenue.....	67.13	6.36	NA	4.96	.04	10.71	10.80	100.00
Average Retail Price (cents/kWh).....	6.52	7.03	NA	7.35	3.48	4.08	4.12	6.89

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Oklahoma		
NERC Region(s).....		SPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,397	21
Electric Utilities	13,550	18
Independent Power Producers & Combined Heat and Power	5,846	19
Net Generation (megawatthours).....	60,729,560	22
Electric Utilities	48,298,390	19
Independent Power Producers & Combined Heat and Power	12,431,170	23
Emissions (thousand metric tons)		
Sulfur Dioxide	102	25
Nitrogen Oxide	78	22
Carbon Dioxide	46,580	21
Sulfur Dioxide (lbs/MWh).....	3.7	31
Nitrogen Oxide (lbs/MWh).....	2.8	21
Carbon Dioxide (lbs/MWh).....	1,691	17
Total Retail Sales (megawatthours).....	50,942,042	26
Full Service Provider Sales (megawatthours).....	50,942,042	25
Direct Use (megawatthours).....	1,153,762	29
Average Retail Price (cents/kWh).....	6.50	30

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Oklahoma			
1. Muskogee.....	Gas,Coal	Oklahoma Gas & Electric Co	1,674
2. Northeastern.....	Petroleum,Gas,Coal	Public Service Co of Oklahoma	1,549
3. Seminole	Gas	Oklahoma Gas & Electric Co	1,541
4. Kiamichi Energy Facility.....	Gas	Kiowa Power Partners LLC	1,178
5. Redbud Power Plant.....	Gas	InterGen North America	1,144
6. Oneta Energy Center.....	Gas	Calpine Central L P	1,082
7. Sooner.....	Petroleum,Coal	Oklahoma Gas & Electric Co	1,020
8. GRDA.....	Petroleum,Gas,Coal	Grand River Dam Authority	1,010
9. Riverside	Petroleum,Gas	Public Service Co of Oklahoma	920
10. Horseshoe Lake	Petroleum,Gas	Oklahoma Gas & Electric Co	865

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Oklahoma						
1. Oklahoma Gas & Electric Co	Investor-Owned	20,762,837	7,263,801	7,646,751	5,852,285	0
2. Public Service Co of Oklahoma	Investor-Owned	16,987,554	5,590,361	6,140,170	5,257,023	0
3. Oklahoma Electric Coop Inc.....	Cooperative	825,129	581,020	179,352	64,757	0
4. City of Edmond	Public	692,953	388,162	231,198	73,593	0
5. Grand River Dam Authority	Public	593,349	0	2,667	590,682	0
Total Sales, Top Five Providers.....		39,861,822	13,823,344	14,200,138	11,838,340	0
Percent of Total State Sales		78	70	83	83	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Oklahoma									
Electric Utilities	12,769	12,928	13,438	13,436	13,387	13,463	13,550	94.2	69.9
Coal	4,850	4,831	4,856	4,856	4,896	4,941	4,949	35.8	25.5
Petroleum	30	30	29	29	34	36	42	.2	.2
Natural Gas	851	904	1,423	1,422	5,490	5,421	5,973	6.3	30.8
Other Gases	0	52	57	57	61	61	58	.0	.3
Dual Fired	6,034	6,076	6,020	6,019	1,850	1,945	1,481	44.5	7.6
Hydroelectric	744	776	793	793	796	800	788	5.5	4.1
Pumped Storage	260	260	260	260	260	260	260	1.9	1.3
Independent Power Producers and Combined									
Heat and Power	787	781	767	1,504	2,844	4,776	5,846	5.8	30.1
Coal	434	434	434	391	391	391	391	3.2	2.0
Petroleum	0	0	0	2	2	2	3	.0	*
Natural Gas	259	245	231	1,017	2,350	4,102	5,171	1.9	26.7
Other Gases	19	17	17	17	17	17	17	.1	.1
Dual Fired	0	9	9	3	10	10	10	.0	.1
Other Renewables	76	76	76	75	76	254	254	.6	1.3
Total Electric Industry	13,557	13,709	14,204	14,941	16,232	18,238	19,397	100.0	100.0
Coal	5,284	5,265	5,290	5,247	5,287	5,332	5,340	39.0	27.5
Petroleum	30	30	29	30	36	37	44	.2	.2
Natural Gas	1,110	1,149	1,653	2,440	7,840	9,522	11,144	8.2	57.5
Other Gases	19	69	74	74	78	78	75	.1	.4
Dual Fired	6,034	6,085	6,029	6,022	1,860	1,955	1,491	44.5	7.7
Hydroelectric	744	776	793	793	796	800	788	5.5	4.1
Other Renewables	76	76	76	75	76	255	255	.6	1.3
Pumped Storage	260	260	260	260	260	260	260	1.9	1.3

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Oklahoma									
Electric Utilities	45,063,182	47,955,288	51,403,249	50,413,729	51,218,320	49,776,514	48,298,390	95.7	79.5
Coal.....	25,188,557	29,714,368	32,852,645	32,164,601	33,444,114	34,200,128	31,240,478	53.5	51.4
Petroleum.....	49,422	77,528	46,637	146,375	10,311	111,555	21,008	.1	*
Natural Gas.....	17,074,845	15,448,135	16,354,321	15,886,542	15,953,919	13,872,606	14,294,108	36.3	23.5
Hydroelectric.....	2,730,594	2,779,920	2,276,933	2,344,690	1,987,844	1,798,412	2,976,676	5.8	4.9
Pumped Storage.....	19,764	-64,663	-127,287	-128,479	-177,868	-206,187	-233,879	*	-4
Independent Power Producers and Combined									
Heat and Power	2,015,949	4,712,079	4,168,708	4,835,721	7,965,099	10,850,342	12,431,170	4.3	20.5
Coal.....	466,790	3,070,694	2,805,367	2,451,167	2,520,664	2,476,198	2,561,898	1.0	4.2
Petroleum.....	27,525	21,157	6,283	28,800	39,560	49,655	47,189	.1	.1
Natural Gas.....	1,161,921	1,267,372	1,148,255	2,057,266	5,095,120	7,950,090	8,991,125	2.5	14.8
Other Gases.....	88,970	65,000	60,616	67,792	70,710	45,408	0	.2	.0
Other Renewables.....	270,743	287,856	148,187	230,696	239,045	321,593	822,092	.6	1.4
Other.....	0	0	0	0	0	7,398	8,867	.0	*
Total Electric Industry	47,079,131	52,667,367	55,571,957	55,249,450	59,183,419	60,626,856	60,729,560	100.0	100.0
Coal.....	25,655,347	32,785,062	35,658,012	34,615,768	35,964,778	36,676,326	33,802,376	54.5	55.7
Petroleum.....	76,947	98,685	52,920	175,175	49,871	161,210	68,197	.2	.1
Natural Gas.....	18,236,766	16,715,507	17,502,576	17,943,808	21,049,039	21,822,696	23,285,233	38.7	38.3
Other Gases.....	88,970	65,000	60,616	67,792	70,710	45,408	0	.2	.0
Hydroelectric.....	2,730,594	2,779,920	2,276,933	2,344,690	1,987,844	1,798,412	2,976,676	5.8	4.9
Other Renewables.....	270,743	287,856	148,187	230,696	239,045	321,593	822,092	.6	1.4
Pumped Storage.....	19,764	-64,663	-127,287	-128,479	-177,868	-206,187	-233,879	*	-4
Other.....	0	0	0	0	0	7,398	8,867	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Oklahoma							
Coal (cents per million Btu).....	140.4	99.4	94.3	90.6	W	W	W
Average heat value (Btu per pound).....	8,894	8,557	8,728	8,912	8,821	8,872	8,854
Average sulfur Content (percent).....	.5	.4	.3	.3	.4	.4	.4
Petroleum (cents per million Btu).....	320.3	252.9	586.1	632.9	483.8	548.0	609.1
Average heat value (Btu per gallon).....	155,949	141,788	140,888	147,429	147,024	142,205	145,071
Average sulfur Content (percent).....	1.1	.3	.1	*	*	.4	.6
Natural Gas (cents per million Btu).....	300.8	226.5	441.6	448.2	344.1	542.0	594.4
Average heat value (Btu per cubic foot).....	1,045	1,034	1,029	1,029	1,025	1,031	1,031

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Oklahoma							
Sulfur Dioxide							
Coal	99	113	94	146	155	106	98
Petroleum.....	1	*	1	1	1	1	2
Natural Gas	*	*	*	*	*	*	*
Other.....	2	2	2	2	3	3	3
Total.....	103	115	98	150	159	110	102
Nitrogen Oxide							
Coal	145	154	72	69	71	66	61
Petroleum.....	*	*	*	*	*	*	*
Gas.....	23	20	24	21	21	19	15
Other.....	1	1	1	1	1	1	1
Total.....	169	175	98	92	92	86	78
Carbon Dioxide							
Coal	25,776	33,145	36,127	35,930	36,820	36,910	34,523
Petroleum.....	149	145	80	237	164	265	237
Gas.....	10,125	9,452	10,227	10,094	11,183	11,346	11,693
Geothermal.....	0	0	0	0	0	0	0
Other.....	*	*	*	0	0	0	127
Total.....	36,050	42,742	46,434	46,261	48,166	48,521	46,580

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Oklahoma									
Retail Sales (thousand megawatthours)									
Residential.....	17,077	16,319	19,640	19,796	19,927	20,162	19,699	40.2	38.7
Commercial	11,634	11,115	13,115	13,552	13,097	16,958	17,020	27.4	33.4
Industrial.....	11,764	11,714	13,935	13,356	12,898	13,308	14,223	27.7	27.9
Other	2,029	2,244	2,874	2,963	3,564	NA	NA	4.8	NA
Total.....	42,504	41,392	49,564	49,667	49,485	50,428	50,942	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,124	1,113	1,380	1,439	1,341	1,507	1,520	48.3	45.9
Commercial	668	642	805	861	753	1,083	1,116	28.7	33.7
Industrial.....	427	440	570	573	491	611	677	18.3	20.4
Other	108	111	157	160	180	NA	NA	4.6	NA
Total.....	2,328	2,306	2,912	3,032	2,765	3,201	3,313	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.58	6.82	7.02	7.27	6.73	7.47	7.72	NA	NA
Commercial	5.74	5.78	6.14	6.35	5.75	6.38	6.55	NA	NA
Industrial.....	3.63	3.75	4.09	4.29	3.81	4.59	4.76	NA	NA
Other	5.33	4.93	5.46	5.39	5.06	NA	NA	NA	NA
Total.....	5.48	5.57	5.88	6.10	5.59	6.35	6.50	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Oklahoma								
Number of Entities.....	4	62	NA	30	1	NA	NA	97
Number of Retail Customers.....	1,191,062	189,582	NA	444,479	75	NA	NA	1,825,198
Retail Sales (thousand megawatthours)	38,162	4,466	NA	8,184	131	NA	NA	50,942
Percentage of Retail Sales	74.91	8.77	NA	16.06	.26	NA	NA	100.00
Revenue from Retail Sales (million dollars)	2,387	290	NA	628	8	NA	NA	3,313
Percentage of Revenue.....	72.05	8.75	NA	18.95	.25	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.25	6.49	NA	7.67	6.41	NA	NA	6.50

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Oregon		
NERC Region(s).....		WECC
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	12,093	29
Electric Utilities	9,555	26
Independent Power Producers & Combined Heat and Power	2,538	32
Net Generation (megawatthours).....	51,381,278	28
Electric Utilities	39,092,958	28
Independent Power Producers & Combined Heat and Power	12,288,320	24
Emissions (thousand metric tons)		
Sulfur Dioxide	14	44
Nitrogen Oxide.....	11	43
Carbon Dioxide.....	9,117	41
Sulfur Dioxide (lbs/MWh).....	.6	46
Nitrogen Oxide (lbs/MWh).....	.5	48
Carbon Dioxide (lbs/MWh).....	391	48
Total Retail Sales (megawatthours).....	45,636,448	29
Full Service Provider Sales (megawatthours).....	44,791,028	28
Deregulated Sales (megawatthours).....	845,420	14
Direct Use (megawatthours).....	691,393	32
Average Retail Price (cents/kWh).....	6.21	38

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Oregon			
1. John Day.....	Hydroelectric	USCE-North Pacific Division	2,160
2. The Dalles	Hydroelectric	USCE-North Pacific Division	1,823
3. Bonneville.....	Hydroelectric	USCE-North Pacific Division	1,093
4. McNary.....	Hydroelectric	USCE-North Pacific Division	991
5. Hermiston Power Partnership.....	Gas	Hermiston Power Partnership	615
6. Boardman.....	Petroleum,Coal	Portland General Electric Co	556
7. Beaver.....	Petroleum,Gas	Portland General Electric Co	495
8. Klamath Cogeneration Plant.....	Gas	Pacific Klamath Energy Inc	470
9. Hermiston Generating Plant.....	Gas	Hermiston Generating Co LP	464
10. Hells Canyon	Hydroelectric	Idaho Power Co	381

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Oregon						
1. Portland General Electric Co	Investor-Owned	17,764,138	7,270,118	7,165,810	3,322,500	5,710
2. PacifiCorp	Investor-Owned	13,133,938	5,218,863	4,739,603	3,165,632	9,840
3. Eugene City of.....	Public	2,634,133	945,782	930,374	757,977	0
4. Central Lincoln People 's Ut Dt.....	Public	1,273,662	400,578	199,586	673,498	0
5. Clatskanie Peoples Util Dist	Public	1,000,571	63,961	26,226	910,384	0
Total Sales, Top Five Providers.....		35,806,442	13,899,302	13,061,599	8,829,991	15,550
Percent of Total State Sales		78	77	83	74	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Oregon									
Electric Utilities	11,236	10,446	10,337	10,354	10,348	10,338	9,555	97.4	79.0
Coal.....	530	508	557	557	557	556	556	4.6	4.6
Petroleum.....	6	0	0	0	0	0	0	.1	.0
Natural Gas.....	148	286	211	211	24	34	34	1.3	.3
Dual Fired.....	448	583	495	518	729	691	691	3.9	5.7
Nuclear.....	1,104	0	0	0	0	0	0	9.6	.0
Hydroelectric	8,988	9,031	9,045	9,063	9,033	9,020	8,239	77.9	68.1
Other Renewables.....	11	38	28	6	6	37	35	.1	.3
Independent Power Producers and Combined									
Heat and Power.....	304	352	937	1,415	2,136	2,545	2,538	2.6	21.0
Coal.....	13	13	13	10	10	10	10	.1	.1
Petroleum.....	7	0	0	0	0	0	0	.1	.0
Natural Gas.....	1	23	618	1,018	1,245	2,049	1,997	*	16.5
Dual Fired.....	0	48	5	3	4	4	50	.0	.4
Hydroelectric	93	109	96	55	55	92	91	.8	.8
Other Renewables.....	189	158	205	329	352	390	390	1.6	3.2
Total Electric Industry	11,540	10,798	11,275	11,769	12,485	12,883	12,093	100.0	100.0
Coal.....	543	521	570	567	567	566	566	4.7	4.7
Petroleum.....	13	0	0	0	0	0	0	.1	.0
Natural Gas.....	150	310	829	1,229	1,739	2,082	2,030	1.3	16.8
Dual Fired.....	448	632	500	521	733	695	741	3.9	6.1
Nuclear.....	1,104	0	0	0	0	0	0	9.6	.0
Hydroelectric	9,082	9,140	9,142	9,118	9,089	9,112	8,330	78.7	68.9
Other Renewables.....	201	196	234	335	357	427	426	1.7	3.5

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Oregon									
Electric Utilities	49,171,999	44,031,261	46,059,938	38,059,649	39,731,986	38,577,937	39,092,958	97.6	76.1
Coal.....	1,297,978	1,527,874	3,785,462	4,423,843	3,768,531	4,285,697	3,535,764	2.6	6.9
Petroleum.....	26,809	4,346	52,038	92,767	5,893	44,035	20,305	.1	*
Natural Gas.....	811,262	2,084,035	4,440,363	5,183,521	1,799,217	1,232,518	2,605,531	1.6	5.1
Nuclear.....	6,073,796	0	0	0	0	0	0	12.1	.0
Hydroelectric.....	40,961,577	40,415,006	37,782,075	28,359,518	34,158,327	32,980,206	32,896,035	81.3	64.0
Other Renewables.....	577	0	0	0	18	35,481	35,323	*	.1
Independent Power Producers and Combined									
Heat and Power	1,200,237	1,234,292	5,730,037	6,992,257	7,367,382	10,388,202	12,288,320	2.4	23.9
Coal.....	19,366	24,617	17,298	21,210	11,153	19,151	19,897	*	*
Petroleum.....	968	681	16,174	9,456	811	61	42,633	*	.1
Natural Gas.....	8,066	269,440	4,659,654	5,799,444	6,013,676	9,011,178	10,875,015	*	21.2
Hydroelectric.....	278,790	349,459	333,555	285,034	254,840	270,126	184,784	.6	.4
Other Renewables.....	893,047	590,095	703,356	877,113	1,086,902	1,087,685	1,165,990	1.8	2.3
Total Electric Industry	50,372,236	45,265,553	51,789,975	45,051,906	47,099,369	48,966,139	51,381,278	100.0	100.0
Coal.....	1,317,344	1,552,491	3,802,760	4,445,053	3,779,684	4,304,848	3,555,661	2.6	6.9
Petroleum.....	27,777	5,027	68,212	102,223	6,704	44,096	62,938	.1	.1
Natural Gas.....	819,328	2,353,475	9,100,017	10,982,965	7,812,893	10,243,696	13,480,546	1.6	26.2
Nuclear.....	6,073,796	0	0	0	0	0	0	12.1	.0
Hydroelectric.....	41,240,367	40,764,465	38,115,630	28,644,552	34,413,167	33,250,332	33,080,819	81.9	64.4
Other Renewables.....	893,624	590,095	703,356	877,113	1,086,920	1,123,166	1,201,313	1.8	2.3

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Oregon							
Coal (cents per million Btu).....	107.9	105.8	106.8	111.0	132.9	125.2	118.5
Average heat value (Btu per pound).....	8,348	8,882	8,636	8,711	8,563	8,516	8,402
Average sulfur Content (percent).....	.3	.3	.4	.4	.3	.3	.3
Petroleum (cents per million Btu).....	347.3	426.7	858.6	636.2	572.3	787.5	869.8
Average heat value (Btu per gallon).....	139,000	140,166	140,000	143,286	141,631	138,490	141,074
Average sulfur Content (percent).....	.5	.3	.1	.1	*	.2	.1
Natural Gas (cents per million Btu).....	.0	129.8	289.6	374.9	328.4	437.0	499.8
Average heat value (Btu per cubic foot).....	0	1,012	1,016	1,022	1,019	1,022	1,021

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Oregon							
Sulfur Dioxide							
Coal	7	7	15	18	12	12	12
Petroleum.....	*	*	*	*	*	*	*
Natural Gas	0	*	*	*	*	*	*
Other.....	2	2	2	3	3	1	2
Total.....	9	9	17	21	15	13	14
Nitrogen Oxide							
Coal	6	7	8	10	8	9	7
Petroleum.....	*	*	*	*	0	*	*
Gas.....	1	3	5	5	2	2	2
Other.....	2	1	1	1	1	1	1
Total.....	9	11	13	16	11	12	11
Carbon Dioxide							
Coal	1,456	1,824	3,835	4,260	3,579	4,244	3,417
Petroleum.....	55	8	76	115	9	42	71
Gas.....	453	1,380	4,226	4,862	3,472	4,409	5,562
Geothermal.....	0	0	0	0	0	0	0
Other.....	21	19	19	19	67	69	67
Total.....	1,984	3,232	8,156	9,257	7,126	8,765	9,117

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Oregon									
Retail Sales (thousand megawatthours)									
Residential.....	15,380	16,315	18,212	17,503	17,554	17,736	18,001	35.8	39.4
Commercial	11,319	12,900	15,289	14,816	14,902	15,483	15,667	26.3	34.3
Industrial.....	15,498	15,839	16,353	13,084	12,296	11,961	11,954	36.1	26.2
Other	780	672	476	481	503	NA	NA	1.8	NA
Transportation.....	NA	NA	NA	NA	NA	15	16	NA	.0
Total.....	42,977	45,725	50,330	45,885	45,255	45,195	45,636	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	727	895	1,071	1,100	1,249	1,252	1,293	40.5	45.6
Commercial	543	653	774	808	982	988	1,010	30.2	35.7
Industrial.....	490	550	582	551	581	554	529	27.3	18.7
Other	37	37	34	35	48	NA	NA	2.1	NA
Transportation.....	NA	NA	NA	NA	NA	1	1	NA	.0
Total.....	1,797	2,135	2,460	2,494	2,859	2,795	2,833	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	4.73	5.49	5.88	6.28	7.11	7.06	7.18	NA	NA
Commercial	4.79	5.06	5.06	5.45	6.59	6.38	6.45	NA	NA
Industrial.....	3.16	3.47	3.56	4.21	4.72	4.63	4.43	NA	NA
Other	4.77	5.49	7.10	7.33	9.44	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	6.67	6.49	NA	NA
Total.....	4.18	4.67	4.89	5.44	6.32	6.18	6.21	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	3	18	1	19	NA	2	2	45
Number of Retail Customers.....	1,304,888	276,579	1	186,601	NA	7	NA	1,768,076
Retail Sales (thousand megawatthours)	31,494	8,929	3	4,365	NA	845	NA	45,636
Percentage of Retail Sales	69.01	19.57	.01	9.57	NA	1.85	NA	100.00
Revenue from Retail Sales (million dollars)	2,006	483	*	297	NA	37	9	2,833
Percentage of Revenue.....	70.83	17.04	*	10.49	NA	1.32	.31	100.00
Average Retail Price (cents/kWh).....	6.37	5.41	3.64	6.81	NA	4.43	1.05	6.21

Oregon

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Pennsylvania		
NERC Region(s).....		ECAR/MAAC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	45,136	4
Electric Utilities	4,968	34
Independent Power Producers & Combined Heat and Power	40,169	2
Net Generation (megawatthours).....	214,658,501	3
Electric Utilities	33,900,004	30
Independent Power Producers & Combined Heat and Power	180,758,497	2
Emissions (thousand metric tons)		
Sulfur Dioxide	931	2
Nitrogen Oxide	184	5
Carbon Dioxide	121,566	4
Sulfur Dioxide (lbs/MWh).....	9.6	9
Nitrogen Oxide (lbs/MWh).....	1.9	34
Carbon Dioxide (lbs/MWh).....	1,249	34
Total Retail Sales (megawatthours).....	143,501,493	6
Full Service Provider Sales (megawatthours).....	130,848,050	4
Deregulated Sales (megawatthours).....	12,653,443	8
Direct Use (megawatthours).....	4,483,086	8
Average Retail Price (cents/kWh).....	8.00	14

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Pennsylvania			
1. Bruce Mansfield.....	Petroleum,Coal	Pennsylvania Power Co	2,360
2. PPL Susquehanna.....	Nuclear	PPL Susquehanna LLC	2,275
3. Limerick.....	Nuclear	Exelon Generation Co LLC	2,268
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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Pennsylvania						
1. PPL Electric Utilities Corp	Investor-Owned	35,119,228	13,539,496	12,256,460	9,254,992	68,280
2. PECO Energy Co.....	Investor-Owned	32,970,251	10,349,142	6,933,849	14,956,642	730,618
3. West Penn Power Co.....	Investor-Owned	19,512,227	6,729,219	4,734,371	8,040,304	8,333
4. Pennsylvania Electric Co.....	Investor-Owned	12,486,911	4,212,366	4,760,629	3,513,916	0
5. Metropolitan Edison Co	Investor-Owned	12,434,928	5,058,288	4,217,788	3,158,852	0
Total Sales, Top Five Providers.....		112,523,545	39,888,511	32,903,097	38,924,706	807,231
Percent of Total State Sales		78	79	74	82	98

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Pennsylvania									
Electric Utilities	33,440	33,698	13,394	4,978	4,887	4,921	4,968	94.8	11.0
Coal.....	17,543	17,503	3,133	2,407	2,360	2,360	2,407	49.7	5.3
Petroleum.....	4,070	4,018	1,239	0	0	0	0	11.5	.0
Natural Gas.....	242	242	110	44	0	0	0	.7	.0
Dual Fired.....	961	1,047	965	7	7	30	30	2.7	.1
Nuclear.....	8,747	8,956	6,090	1,641	1,641	1,652	1,652	24.8	3.7
Hydroelectric	647	647	444	444	444	444	444	1.8	1.0
Pumped Storage.....	1,230	1,285	1,412	435	435	435	435	3.5	1.0
Independent Power Producers and Combined									
Heat and Power.....	1,849	2,715	23,455	32,700	34,895	37,447	40,169	5.2	89.0
Coal.....	926	1,565	15,616	16,171	16,025	15,778	16,256	2.6	36.0
Petroleum.....	19	15	1,142	2,274	2,283	2,283	2,186	.1	4.8
Natural Gas.....	272	239	493	1,702	2,483	4,063	6,539	.8	14.5
Other Gases	161	257	119	106	105	110	110	.5	.2
Dual Fired.....	270	269	2,445	3,297	4,821	5,738	5,547	.8	12.3
Nuclear.....	0	0	2,970	7,489	7,486	7,523	7,577	.0	16.8
Hydroelectric	85	85	255	292	307	307	307	.2	.7
Other Renewables.....	114	285	395	458	478	576	578	.3	1.3
Pumped Storage.....	0	0	0	910	910	1,072	1,070	.0	2.4
Other	2	2	17	0	0	0	0	*	.0
Total Electric Industry	35,290	36,413	36,848	37,678	39,783	42,368	45,136	100.0	100.0
Coal.....	18,469	19,067	18,750	18,578	18,384	18,137	18,662	52.3	41.3
Petroleum.....	4,088	4,033	2,382	2,274	2,283	2,283	2,187	11.6	4.8
Natural Gas.....	514	481	604	1,745	2,482	4,062	6,539	1.5	14.5
Other Gases	161	257	119	106	105	110	110	.5	.2
Dual Fired.....	1,231	1,316	3,411	3,305	4,829	5,768	5,577	3.5	12.4
Nuclear.....	8,747	8,956	9,060	9,130	9,127	9,175	9,229	24.8	20.4
Hydroelectric	732	732	700	736	751	751	751	2.1	1.7
Other Renewables.....	114	285	394	458	477	575	578	.3	1.3
Pumped Storage.....	1,230	1,285	1,412	1,345	1,345	1,507	1,505	3.5	3.3
Other	2	2	17	0	0	0	0	*	.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Pennsylvania									
Electric Utilities	165,682,846	168,941,707	97,075,771	27,633,966	30,537,243	30,099,444	33,900,004	94.3	15.8
Coal.....	101,996,271	96,799,645	36,704,124	13,863,092	15,935,860	15,944,113	18,396,944	58.1	8.6
Petroleum.....	4,013,814	3,072,153	1,656,505	21,609	39,420	34,944	32,129	2.3	*
Natural Gas.....	182,957	2,164,830	231,095	1,138	1,934	2,857	25,316	.1	*
Nuclear.....	57,787,051	66,461,535	57,267,756	13,179,236	13,594,705	12,619,098	13,993,379	32.9	6.5
Hydroelectric.....	2,582,002	1,683,697	1,626,887	776,727	1,166,959	1,745,193	1,666,727	1.5	.8
Pumped Storage.....	-879,249	-1,240,153	-410,596	-207,836	-201,635	-246,761	-214,491	-5	-1
Independent Power Producers and Combined Heat and Power	9,940,465	16,509,604	104,612,209	168,942,625	173,785,635	176,250,070	180,758,496	5.7	84.2
Coal.....	4,680,884	9,535,002	79,508,437	98,037,356	97,970,580	100,065,761	98,783,678	2.7	46.0
Petroleum.....	640,708	575,446	2,091,650	3,540,978	2,693,525	4,500,393	4,090,785	.4	1.9
Natural Gas.....	2,650,925	2,761,353	2,467,977	3,035,159	6,713,603	5,515,680	9,803,647	1.5	4.6
Other Gases.....	841,604	781,665	597,995	613,137	568,725	508,176	581,247	.5	.3
Nuclear.....	0	0	16,503,591	60,551,561	62,494,225	61,741,764	63,465,253	.0	29.6
Hydroelectric.....	287,190	346,510	663,345	873,277	1,043,604	1,601,074	1,488,611	.2	.7
Other Renewables.....	838,422	2,464,348	2,730,463	2,661,798	2,757,492	2,809,456	2,995,539	.5	1.4
Pumped Storage.....	0	0	0	-407,614	-456,119	-492,233	-471,393	.0	-2
Other.....	732	45,280	48,751	36,973	0	0	21,131	.0	*
Total Electric Industry	175,623,311	185,451,311	201,687,980	196,576,591	204,322,878	206,349,513	214,658,501	100.0	100.0
Coal.....	106,677,155	106,334,647	116,212,561	111,900,448	113,906,440	116,009,874	117,180,622	60.7	54.6
Petroleum.....	4,654,522	3,647,599	3,748,155	3,562,587	2,732,945	4,535,337	4,122,914	2.6	1.9
Natural Gas.....	2,833,882	4,926,183	2,699,072	3,036,297	6,715,537	5,518,537	9,828,963	1.6	4.6
Other Gases.....	841,604	781,665	597,995	613,137	568,725	508,176	581,247	.5	.3
Nuclear.....	57,787,051	66,461,535	73,771,347	73,730,797	76,088,930	74,360,862	77,458,632	32.9	36.1
Hydroelectric.....	2,869,192	2,030,207	2,290,232	1,650,004	2,210,563	3,346,267	3,155,338	1.6	1.5
Other Renewables.....	838,422	2,464,348	2,730,463	2,661,798	2,757,492	2,809,456	2,995,539	.5	1.4
Pumped Storage.....	-879,249	-1,240,153	-410,596	-615,450	-657,754	-738,994	-685,884	-5	-3
Other.....	732	45,280	48,751	36,973	0	0	21,131	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Pennsylvania							
Coal (cents per million Btu).....	152.2	135.9	114.9	120.6	125.3	122.1	137.2
Average heat value (Btu per pound).....	12,241	12,315	12,670	11,245	11,782	11,733	11,615
Average sulfur Content (percent).....	2.2	2.1	2.3	2.1	1.9	1.9	2.0
Petroleum (cents per million Btu).....	321.7	224.0	291.6	372.9	463.9	466.9	451.3
Average heat value (Btu per gallon).....	140,463	128,575	125,114	146,619	143,421	144,660	144,343
Average sulfur Content (percent).....	1.3	2.0	2.1	.5	.5	1.3	1.4
Natural Gas (cents per million Btu).....	294.9	198.1	370.7	851.4	389.9	624.7	723.2
Average heat value (Btu per cubic foot).....	1,032	1,030	1,033	1,029	1,027	1,038	1,033

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Pennsylvania							
Sulfur Dioxide							
Coal	1,169	1,051	842	853	806	890	907
Petroleum.....	68	50	13	14	6	18	21
Natural Gas	*	*	0	*	*	*	*
Other.....	2	3	*	*	*	3	3
Total.....	1,240	1,104	856	867	813	912	931
Nitrogen Oxide							
Coal	435	325	202	193	192	163	168
Petroleum.....	12	8	4	7	3	5	6
Gas.....	5	6	3	3	4	2	2
Other.....	2	5	4	6	6	7	7
Total.....	453	344	213	209	205	177	184
Carbon Dioxide							
Coal	101,607	101,741	115,470	105,607	111,090	110,511	111,317
Petroleum.....	6,593	4,491	4,300	3,627	2,953	4,438	4,112
Gas.....	2,092	3,165	2,126	2,016	3,569	3,023	4,959
Geothermal.....	0	0	0	0	0	0	0
Other.....	51	310	337	345	1,162	1,212	1,178
Total.....	110,343	109,708	122,233	111,596	118,775	119,184	121,566

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Pennsylvania									
Retail Sales (thousand megawatthours)									
Residential.....	38,164	42,802	45,008	46,030	48,730	49,651	50,663	33.3	35.3
Commercial	29,159	34,544	42,002	40,553	42,632	43,218	44,355	25.4	30.9
Industrial.....	45,992	47,528	45,449	47,383	47,090	46,773	47,659	40.1	33.2
Other	1,435	1,377	1,387	1,306	1,368	NA	NA	1.3	NA
Transportation.....	NA	NA	NA	NA	NA	727	823	NA	.6
Total.....	114,751	126,251	133,845	135,272	139,820	140,369	143,501	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	3,519	4,161	4,291	4,454	4,747	4,760	4,853	40.1	42.3
Commercial	2,360	2,877	3,238	3,497	3,623	3,724	3,774	26.9	32.9
Industrial.....	2,748	2,813	2,559	2,731	2,747	2,715	2,799	31.3	24.4
Other	155	155	149	150	159	NA	NA	1.8	NA
Transportation.....	NA	NA	NA	NA	NA	57	60	NA	.5
Total.....	8,782	10,006	10,237	10,832	11,276	11,256	11,486	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.22	9.72	9.53	9.68	9.74	9.59	9.58	NA	NA
Commercial	8.09	8.33	7.71	8.62	8.50	8.62	8.51	NA	NA
Industrial.....	5.97	5.92	5.63	5.76	5.83	5.80	5.87	NA	NA
Other	10.80	11.28	10.71	11.46	11.59	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	7.78	7.32	NA	NA
Total.....	7.65	7.93	7.65	8.01	8.06	8.02	8.00	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Pennsylvania								
Number of Entities.....	12	35	NA	13	NA	16	9	85
Number of Retail Customers.....	5,074,162	83,066	NA	209,720	NA	430,097	NA	5,797,045
Retail Sales (thousand megawatthours)	126,982	1,443	NA	2,424	NA	12,653	NA	143,501
Percentage of Retail Sales	88.49	1.01	NA	1.69	NA	8.82	NA	100.00
Revenue from Retail Sales (million dollars)	9,979	121	NA	252	NA	706	428	11,486
Percentage of Revenue.....	86.88	1.05	NA	2.19	NA	6.15	3.73	100.00
Average Retail Price (cents/kWh).....	7.86	8.37	NA	10.38	NA	5.58	3.38	8.00

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Rhode Island		
NERC Region(s).....		NPCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	1,743	49
Electric Utilities	9	50
Independent Power Producers & Combined Heat and Power	1,734	35
Net Generation (megawatthours)	4,939,420	50
Electric Utilities	12,402	49
Independent Power Producers & Combined Heat and Power	4,927,018	34
Emissions (thousand metric tons)		
Sulfur Dioxide	1	49
Nitrogen Oxide.....	1	49
Carbon Dioxide	2,105	48
Sulfur Dioxide (lbs/MWh).....	.4	48
Nitrogen Oxide (lbs/MWh).....	.3	50
Carbon Dioxide (lbs/MWh).....	939	40
Total Retail Sales (megawatthours)	7,887,575	49
Full Service Provider Sales (megawatthours).....	7,043,336	48
Deregulated Sales (megawatthours)	844,239	15
Direct Use (megawatthours).....	65,036	48
Average Retail Price (cents/kWh).....	10.96	7

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Rhode Island			
1. Rhode Island State Energy Partners.....	Gas	FPL Energy Operating Serv Inc	515
2. Manchester Street.....	Petroleum,Gas	Dominion Energy New England, LLC	426
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	Pawtucket Power Associates LP	64
7. Ridgewood Providence Power.....	Other	Ridgewood Power Management LLC	15
8. Central Power Plant	Other	State of Rhode Island	10
9. Rhode Island Hospital.....	Gas,Petroleum	Rhode Island Hospital	9
10. Block Island.....	Petroleum	Block Island Power Co	7

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Rhode Island						
1. Narragansett Electric Co	Investor-Owned	6,981,269	2,965,811	3,051,315	964,143	0
2. Constellation NewEnergy, Inc	Power Marketer	538,495	0	538,495	0	0
3. TransCanada Power Mktg Ltd.....	Power Marketer	144,391	0	0	144,391	0
4. Select Energy.....	Power Marketer	119,176	0	95,768	23,408	0
5. Pascoag Utility District	Public	51,236	27,498	6,147	17,591	0
Total Sales, Top Five Providers.....		7,834,567	2,993,309	3,691,725	1,149,533	0
Percent of Total State Sales		99	100	100	85	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Rhode Island									
Electric Utilities	263	442	6	7	9	9	9	46.7	0.5
Petroleum.....	29	20	5	6	7	7	7	5.2	.4
Natural Gas.....	0	420	0	0	0	0	0	.0	.0
Dual Fired.....	233	0	0	0	0	0	0	41.4	.0
Hydroelectric	1	1	1	1	1	1	1	.2	.1
Independent Power Producers and Combined Heat and Power	300	538	1,186	1,214	1,715	1,726	1,734	53.3	99.5
Petroleum.....	0	0	2	2	5	5	5	.0	.3
Natural Gas.....	0	0	692	415	906	917	1,202	.0	69.0
Dual Fired.....	284	522	474	779	785	785	509	50.4	29.2
Hydroelectric	3	3	3	3	3	3	3	.5	.2
Other Renewables.....	13	13	15	15	15	15	15	2.3	.9
Total Electric Industry	563	980	1,193	1,221	1,723	1,734	1,743	100.0	100.0
Petroleum.....	29	20	7	8	12	12	12	5.2	.7
Natural Gas.....	0	420	693	415	906	917	1,202	.0	69.0
Dual Fired.....	516	522	475	779	785	785	509	91.7	29.2
Hydroelectric	4	4	4	4	4	4	4	.7	.2
Other Renewables.....	13	13	15	15	15	15	15	2.3	.9

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Rhode Island									
Electric Utilities	591,756	653,076	10,823	0	11,836	11,771	12,402	53.4	0.3
Petroleum.....	158,154	50,334	10,823	0	11,836	11,771	12,402	14.3	.3
Natural Gas.....	433,602	602,742	0	0	0	0	0	39.2	.0
Independent Power Producers and Combined									
Heat and Power	515,560	3,835,137	5,960,722	7,501,892	7,044,929	5,609,373	4,927,018	46.6	99.7
Petroleum.....	27,517	26,739	48,802	70,003	45,697	46,588	36,343	2.5	.7
Natural Gas.....	443,341	3,719,500	5,791,814	7,325,130	6,310,417	5,454,996	4,783,687	40.0	96.8
Hydroelectric.....	9,946	9,169	4,867	3,143	3,685	6,021	5,461	.9	.1
Other Renewables.....	34,756	79,729	115,239	103,616	97,752	101,768	101,526	3.1	2.1
Other.....	0	0	0	0	587,378	0	0	.0	.0
Total Electric Industry	1,107,316	4,488,213	5,971,545	7,501,892	7,056,765	5,621,145	4,939,420	100.0	100.0
Petroleum.....	185,671	77,073	59,625	70,003	57,533	58,359	48,745	16.8	1.0
Natural Gas.....	876,943	4,322,242	5,791,814	7,325,130	6,310,417	5,454,996	4,783,687	79.2	96.8
Hydroelectric.....	9,946	9,169	4,867	3,143	3,685	6,021	5,461	.9	.1
Other Renewables.....	34,756	79,729	115,239	103,616	97,752	101,768	101,526	3.1	2.1
Other.....	0	0	0	0	587,378	0	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Rhode Island							
Petroleum (cents per million Btu).....	358.9	412.5	0.0	0.0	0.0	W	W
Average heat value (Btu per gallon).....	152,447	139,564	0	0	0	140,564	140,562
Average sulfur Content (percent).....	.9	*	.0	.0	.0	.1	.1
Natural Gas (cents per million Btu).....	216.9	184.9	.0	.0	455.4	650.3	679.9
Average heat value (Btu per cubic foot).....	1,033	1,028	0	0	1,018	1,033	1,036

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Rhode Island							
Sulfur Dioxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	2	1	1	1	1	1	1
Natural Gas	0	*	*	*	*	*	*
Other.....	0	0	0	0	0	0	0
Total.....	2	1	1	1	1	1	1
Nitrogen Oxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	1	*	*	*	*	*	*
Gas.....	1	4	1	1	1	*	*
Other.....	*	*	1	*	*	*	*
Total.....	2	5	2	2	1	1	1
Carbon Dioxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	279	147	196	242	165	128	164
Gas.....	536	2,028	2,665	3,191	2,914	2,270	1,940
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	815	2,176	2,861	3,432	3,079	2,398	2,105

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Rhode Island									
Retail Sales (thousand megawatthours)									
Residential.....	2,376	2,472	2,664	2,699	2,829	2,998	3,000	37.0	38.0
Commercial	2,492	2,625	3,166	3,240	3,316	3,490	3,542	38.8	44.9
Industrial.....	1,354	1,374	1,394	1,386	1,331	1,309	1,345	21.1	17.1
Other	196	165	78	68	85	NA	NA	3.1	NA
Total.....	6,419	6,636	7,301	7,393	7,561	7,797	7,888	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	234	283	301	327	289	348	366	39.9	42.3
Commercial	223	265	301	374	287	352	373	38.0	43.1
Industrial.....	113	122	122	130	106	116	126	19.3	14.6
Other	18	19	20	16	14	NA	NA	3.1	NA
Total.....	587	689	743	847	696	816	865	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.84	11.47	11.28	12.13	10.20	11.61	12.19	NA	NA
Commercial	8.93	10.08	9.50	11.54	8.65	10.09	10.53	NA	NA
Industrial.....	8.35	8.87	8.76	9.36	7.96	8.88	9.37	NA	NA
Other	9.06	11.44	25.19	22.86	16.46	NA	NA	NA	NA
Total.....	9.15	10.38	10.18	11.45	9.20	10.47	10.96	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Rhode Island								
Number of Entities.....	2	1	NA	NA	NA	3	1	7
Number of Retail Customers.....	471,973	4,323	NA	NA	NA	2,346	NA	478,642
Retail Sales (thousand megawatthours)	6,992	51	NA	NA	NA	844	NA	7,888
Percentage of Retail Sales	88.65	.65	NA	NA	NA	10.70	NA	100.00
Revenue from Retail Sales (million dollars)	784	5	NA	NA	NA	45	30	865
Percentage of Revenue.....	90.68	.61	NA	NA	NA	5.23	3.49	100.00
Average Retail Price (cents/kWh).....	11.21	10.26	NA	NA	NA	5.35	3.57	10.96

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;

* = 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. 2004 Summary Statistics

Item	Value	U.S. Rank
South Carolina		
NERC Region(s).....		SERC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	22,196	17
Electric Utilities	20,406	11
Independent Power Producers & Combined Heat and Power	1,789	34
Net Generation (megawatthours).....	97,939,929	16
Electric Utilities	94,406,828	8
Independent Power Producers & Combined Heat and Power	3,533,101	38
Emissions (thousand metric tons)		
Sulfur Dioxide	221	18
Nitrogen Oxide	65	29
Carbon Dioxide	39,430	25
Sulfur Dioxide (lbs/MWh).....	5.0	20
Nitrogen Oxide (lbs/MWh).....	1.5	38
Carbon Dioxide (lbs/MWh).....	888	42
Total Retail Sales (megawatthours).....	79,908,340	17
Full Service Provider Sales (megawatthours).....	79,908,340	16
Direct Use (megawatthours).....	2,043,966	22
Average Retail Price (cents/kWh).....	6.22	37

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
South Carolina			
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.....	Pumped Storage	Duke Energy Corp	1,065
6. V C Summer	Nuclear	South Carolina Electric&Gas Co	966
7. John S Rainey	Petroleum,Gas	South Carolina Pub Serv Auth	958
8. H B Robinson.....	Gas,Petroleum,Coal	Carolina Power & Light Co	899
9. Broad River Energy Center	Petroleum,Gas	Broad River Energy LLC	843
10. Darlington County	Petroleum,Gas	Carolina Power & Light Co	812

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
South Carolina						
1. South Carolina Electric&Gas Co	Investor-Owned	21,679,929	7,459,974	7,444,793	6,775,162	0
2. Duke Energy Corp.....	Investor-Owned	21,312,592	5,923,771	5,349,006	10,039,815	0
3. South Carolina Pub Serv Auth.....	Public	11,174,969	1,549,655	1,891,532	7,733,782	0
4. Carolina Power & Light Co.....	Investor-Owned	7,362,122	2,168,027	1,852,843	3,341,252	0
5. Berkeley Electric Coop Inc	Cooperative	1,489,032	1,129,797	167,711	191,524	0
Total Sales, Top Five Providers.....		63,018,644	18,231,224	16,705,885	28,081,535	0
Percent of Total State Sales		79	65	83	88	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Carolina									
Electric Utilities	14,908	16,701	17,716	18,246	19,101	19,402	20,406	97.5	91.9
Coal.....	4,818	5,352	6,054	6,077	5,925	5,925	5,968	31.5	26.9
Petroleum.....	274	651	671	669	669	684	684	1.8	3.1
Natural Gas.....	78	26	18	180	760	760	975	.5	4.4
Other Gases.....	364	0	0	0	0	0	0	2.4	.0
Dual Fired.....	846	858	1,046	1,385	1,676	1,963	2,738	5.5	12.3
Nuclear.....	6,346	6,364	6,445	6,445	6,492	6,472	6,472	41.5	29.2
Hydroelectric.....	1,031	1,262	1,271	1,271	1,360	1,360	1,316	6.7	5.9
Other Renewables.....	0	0	0	0	0	3	3	.0	*
Pumped Storage.....	1,152	2,187	2,211	2,219	2,219	2,235	2,251	7.5	10.1
Independent Power Producers and Combined									
Heat and Power	375	405	968	1,181	1,262	1,257	1,789	2.5	8.1
Coal.....	158	131	102	103	103	103	103	1.0	.5
Petroleum.....	1	1	3	3	3	3	3	*	*
Natural Gas.....	1	1	101	351	399	95	246	*	1.1
Dual Fired.....	3	3	505	468	501	800	1,185	*	5.3
Hydroelectric.....	18	18	26	24	24	24	24	.1	.1
Other Renewables.....	193	251	231	232	232	232	230	1.3	1.0
Total Electric Industry	15,283	17,106	18,685	19,427	20,363	20,659	22,196	100.0	100.0
Coal.....	4,976	5,483	6,156	6,180	6,028	6,028	6,072	32.6	27.4
Petroleum.....	275	652	674	672	672	686	686	1.8	3.1
Natural Gas.....	79	28	119	531	1,159	855	1,220	.5	5.5
Other Gases.....	364	0	0	0	0	0	0	2.4	.0
Dual Fired.....	849	862	1,552	1,853	2,177	2,763	3,923	5.6	17.7
Nuclear.....	6,346	6,364	6,445	6,445	6,492	6,472	6,472	41.5	29.2
Hydroelectric.....	1,049	1,280	1,297	1,295	1,384	1,384	1,340	6.9	6.0
Other Renewables.....	193	250	231	232	232	235	233	1.3	1.0
Pumped Storage.....	1,152	2,187	2,211	2,219	2,219	2,235	2,251	7.5	10.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Carolina									
Electric Utilities	69,259,815	78,439,814	90,421,081	86,734,778	93,689,257	91,544,429	94,406,828	97.1	96.4
Coal.....	22,874,805	25,801,600	38,664,405	36,302,690	36,490,769	37,065,509	38,516,633	32.1	39.3
Petroleum.....	71,997	129,854	265,931	225,008	205,664	289,474	690,071	.1	.7
Natural Gas.....	703,435	600,385	188,038	193,612	3,466,140	1,365,534	2,527,103	1.0	2.6
Nuclear.....	42,880,669	49,173,476	50,887,700	49,869,998	53,325,854	50,417,690	51,200,640	60.1	52.3
Hydroelectric.....	3,235,298	3,392,394	1,497,013	1,179,192	1,328,524	3,590,944	2,382,225	4.5	2.4
Other Renewables.....	0	0	0	0	15,522	22,091	239,246	.0	.2
Pumped Storage.....	-506,389	-657,895	-1,082,006	-1,035,722	-1,143,216	-1,206,813	-1,149,090	-.7	-1.2
Independent Power Producers and Combined									
Heat and Power	2,103,359	2,473,834	2,925,159	2,424,209	2,874,241	2,228,249	3,533,101	2.9	3.6
Coal.....	537,062	535,590	543,971	396,314	456,953	366,514	403,291	.8	.4
Petroleum.....	100,578	127,586	179,226	83,097	94,673	167,397	220,007	.1	.2
Natural Gas.....	84,100	89,497	744,864	982,502	1,032,179	297,248	1,267,986	.1	1.3
Other Gases.....	0	9,254	888	198	314	73	9	.0	.0
Hydroelectric.....	62,768	64,749	36,477	46,251	61,227	74,482	64,684	.1	.1
Other Renewables.....	1,318,851	1,647,158	1,419,733	915,847	1,228,895	1,322,535	1,577,124	1.8	1.6
Total Electric Industry									
Coal	71,363,174	80,913,648	93,346,240	89,158,987	96,563,498	93,772,677	97,939,929	100.0	100.0
Coal.....	23,411,867	26,337,190	39,208,376	36,699,004	36,947,722	37,432,023	38,919,924	32.8	39.7
Petroleum.....	172,575	257,440	445,157	308,105	300,337	456,871	910,078	.2	.9
Natural Gas.....	787,535	689,882	932,902	1,176,114	4,498,319	1,662,782	3,795,089	1.1	3.9
Other Gases.....	0	9,254	888	198	314	73	9	.0	.0
Nuclear.....	42,880,669	49,173,476	50,887,700	49,869,998	53,325,854	50,417,690	51,200,640	60.1	52.3
Hydroelectric.....	3,298,066	3,457,143	1,533,490	1,225,443	1,389,751	3,665,426	2,446,909	4.6	2.5
Other Renewables.....	1,318,851	1,647,158	1,419,733	915,847	1,244,417	1,344,626	1,816,370	1.8	1.9
Pumped Storage.....	-506,389	-657,895	-1,082,006	-1,035,722	-1,143,216	-1,206,813	-1,149,090	-.7	-1.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
South Carolina							
Coal (cents per million Btu).....	172.0	151.2	139.0	156.5	W	W	W
Average heat value (Btu per pound).....	12,655	12,852	12,727	12,571	12,361	12,669	12,565
Average sulfur Content (percent).....	1.2	1.2	1.1	1.1	1.2	1.1	1.2
Petroleum (cents per million Btu).....	622.1	411.1	672.3	584.6	W	W	W
Average heat value (Btu per gallon).....	138,032	138,041	138,243	143,119	144,638	144,988	138,905
Average sulfur Content (percent).....	.2	.2	.2	.2	1.2	1.7	3.7
Natural Gas (cents per million Btu).....	171.8	160.3	556.9	256.7	W	W	W
Average heat value (Btu per cubic foot).....	1,023	1,024	1,028	1,036	1,028	1,031	1,035

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
South Carolina							
Sulfur Dioxide							
Coal	165	198	193	195	193	197	207
Petroleum.....	6	*	5	2	3	3	5
Natural Gas	0	0	*	*	*	0	*
Other.....	9	11	8	5	9	8	9
Total.....	181	209	206	202	205	207	221
Nitrogen Oxide							
Coal	88	94	86	79	82	74	62
Petroleum.....	1	1	1	1	1	*	1
Gas.....	1	1	*	*	1	1	1
Other.....	3	3	2	2	3	2	2
Total.....	93	99	89	82	85	78	65
Carbon Dioxide							
Coal	23,021	25,366	36,519	34,262	34,033	35,074	36,613
Petroleum.....	389	591	685	421	480	652	786
Gas.....	504	489	576	647	2,072	754	1,781
Geothermal.....	0	0	0	0	0	0	0
Other.....	31	27	26	25	0	179	249
Total.....	23,945	26,473	37,807	35,355	36,585	36,658	39,430

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Carolina									
Retail Sales (thousand megawatthours)									
Residential.....	18,258	21,392	25,270	24,875	26,787	26,422	27,910	32.8	34.9
Commercial	11,927	14,020	17,483	17,484	18,157	19,336	20,113	21.4	25.2
Industrial.....	24,701	28,819	33,308	31,528	31,926	31,296	31,886	44.4	39.9
Other	766	843	951	946	950	NA	NA	1.4	NA
Total.....	55,652	65,074	77,012	74,832	77,819	77,054	79,908	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,305	1,611	1,916	1,912	2,069	2,117	2,267	41.9	45.6
Commercial	734	890	1,110	1,127	1,177	1,316	1,390	23.6	28.0
Industrial.....	1,032	1,153	1,246	1,218	1,229	1,251	1,315	33.2	26.4
Other	42	49	60	60	61	NA	NA	1.3	NA
Total.....	3,113	3,703	4,332	4,317	4,537	4,684	4,972	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.15	7.53	7.58	7.69	7.72	8.01	8.12	NA	NA
Commercial	6.15	6.35	6.35	6.45	6.48	6.81	6.91	NA	NA
Industrial.....	4.18	4.00	3.74	3.86	3.85	4.00	4.13	NA	NA
Other	5.53	5.87	6.29	6.39	6.44	NA	NA	NA	NA
Total.....	5.59	5.69	5.63	5.77	5.83	6.08	6.22	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
South Carolina								
Number of Entities.....	4	22	NA	21	NA	NA	NA	47
Number of Retail Customers.....	1,255,376	306,712	NA	646,395	NA	NA	NA	2,208,483
Retail Sales (thousand megawatthours)	50,566	15,175	NA	14,168	NA	NA	NA	79,908
Percentage of Retail Sales	63.28	18.99	NA	17.73	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	3,073	831	NA	1,067	NA	NA	NA	4,972
Percentage of Revenue.....	61.82	16.71	NA	21.47	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.08	5.48	NA	7.53	NA	NA	NA	6.22

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. 2004 Summary Statistics

Item	Value	U.S. Rank
South Dakota		
NERC Region(s).....		WECC/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	2,659	46
Electric Utilities	2,618	37
Independent Power Producers & Combined Heat and Power	40	50
Net Generation (megawatthours)	7,510,214	47
Electric Utilities	7,357,617	38
Independent Power Producers & Combined Heat and Power	152,597	49
Emissions (thousand metric tons)		
Sulfur Dioxide	14	45
Nitrogen Oxide.....	16	40
Carbon Dioxide.....	3,834	47
Sulfur Dioxide (lbs/MWh).....	4.0	29
Nitrogen Oxide (lbs/MWh).....	4.8	2
Carbon Dioxide (lbs/MWh).....	1,126	38
Total Retail Sales (megawatthours)	9,213,844	48
Full Service Provider Sales (megawatthours).....	9,213,844	46
Average Retail Price (cents/kWh).....	6.44	31

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
South Dakota			
1. Oahe.....	Hydroelectric	USCE-Missouri River District	651
2. Big Bend.....	Hydroelectric	USCE-Missouri River District	520
3. Big Stone.....	Petroleum,Coal	Otter Tail Power Co	456
4. Fort Randall.....	Hydroelectric	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 Energy	55
9. Watertown Power Plant.....	Petroleum	Missouri Basin Mun Pwr Agency	51
10. South Dakota Wind Energy Cente.....	Other	FPL Energy South Dakota Wind LLC	41

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
South Dakota						
1. Northern States Power Co.....	Investor-Owned	1,687,634	549,153	803,265	335,216	0
2. Black Hills Corp.....	Investor-Owned	1,346,233	430,022	635,435	280,776	0
3. Northwestern Energy.....	Investor-Owned	1,191,386	437,829	550,069	203,488	0
4. Sioux Valley SW Elec Coop.....	Cooperative	411,502	209,124	30,232	172,146	0
5. Otter Tail Power Co.....	Investor-Owned	323,627	101,036	222,591	0	0
Total Sales, Top Five Providers.....		4,960,382	1,727,164	2,241,592	991,626	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, 1990, 1995, and 2000 Through 2004
(Megawatts)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Dakota									
Electric Utilities	2,708	2,950	2,812	2,814	2,854	2,650	2,618	100.0	98.5
Coal.....	495	475	477	477	477	476	477	18.3	17.9
Petroleum.....	228	223	229	228	238	237	228	8.4	8.6
Natural Gas.....	66	293	290	290	324	34	34	2.4	1.3
Dual Fired.....	97	138	138	138	135	351	351	3.6	13.2
Hydroelectric	1,821	1,820	1,678	1,678	1,678	1,549	1,526	67.2	57.4
Other Renewables.....	0	0	0	3	3	3	3	.0	.1
Independent Power Producers and Combined									
Heat and Power	0	0	0	0	0	40	40	.0	1.5
Other Renewables.....	0	0	0	0	0	41	41	.0	1.5
Total Electric Industry	2,708	2,950	2,812	2,814	2,854	2,690	2,659	100.0	100.0
Coal.....	495	475	477	477	477	476	477	18.3	17.9
Petroleum.....	228	223	229	228	238	237	228	8.4	8.6
Natural Gas.....	66	293	290	290	324	34	34	2.4	1.3
Dual Fired.....	97	138	138	138	135	351	351	3.6	13.2
Hydroelectric	1,821	1,820	1,678	1,678	1,678	1,549	1,526	67.2	57.4
Other Renewables.....	0	0	0	3	3	43	43	.0	1.6

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Dakota									
Electric Utilities	6,427,473	8,811,793	9,697,337	7,400,743	7,721,958	7,904,755	7,357,617	100.0	98.0
Coal.....	2,472,514	2,721,295	3,670,576	3,611,680	3,271,523	3,431,203	3,620,001	38.5	48.2
Petroleum.....	8,149	17,488	52,214	51,524	4,961	16,058	22,771	.1	.3
Natural Gas.....	12,408	63,139	259,039	304,803	85,778	176,024	112,255	.2	1.5
Hydroelectric	3,934,402	6,009,871	5,715,508	3,431,865	4,353,653	4,276,303	3,597,509	61.2	47.9
Other Renewables	0	0	0	871	6,043	5,167	5,081	.0	.1
Independent Power Producers and Combined									
Heat and Power	0	0	0	0	0	39,082	152,597	.0	2.0
Other Renewables.....	0	0	0	0	0	39,082	152,597	.0	2.0
Total Electric Industry	6,427,473	8,811,793	9,697,337	7,400,743	7,721,958	7,943,837	7,510,214	100.0	100.0
Coal.....	2,472,514	2,721,295	3,670,576	3,611,680	3,271,523	3,431,203	3,620,001	38.5	48.2
Petroleum.....	8,149	17,488	52,214	51,524	4,961	16,058	22,771	.1	.3
Natural Gas.....	12,408	63,139	259,039	304,803	85,778	176,024	112,255	.2	1.5
Hydroelectric	3,934,402	6,009,871	5,715,508	3,431,865	4,353,653	4,276,303	3,597,509	61.2	47.9
Other Renewables	0	0	0	871	6,043	44,249	157,678	.0	2.1

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
South Dakota							
Coal (cents per million Btu)	114.6	102.9	99.3	103.3	129.5	134.3	138.5
Average heat value (Btu per pound).....	6,096	6,972	8,464	8,541	8,477	8,560	8,523
Average sulfur Content (percent).....	.9	.9	.3	.3	.4	.3	.3
Petroleum (cents per million Btu).....	565.3	.0	.0	.0	.0	803.6	822.4
Average heat value (Btu per gallon).....	140,000	0	0	0	0	138,210	138,536
Average sulfur Content (percent).....	.3	.0	.0	.0	.0	.2	.2

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
South Dakota							
Sulfur Dioxide							
Coal	28	25	13	13	11	11	13
Petroleum.....	*	*	*	0	0	*	*
Natural Gas	0	0	*	0	0	0	0
Other.....	0	*	*	0	0	*	1
Total.....	28	25	13	13	11	12	14
Nitrogen Oxide							
Coal	9	8	17	16	15	15	16
Petroleum.....	*	0	0	0	0	*	*
Gas.....	*	*	*	*	*	*	*
Other.....	0	*	*	0	0	*	*
Total.....	9	9	17	17	15	15	16
Carbon Dioxide							
Coal	2,886	2,973	3,649	3,627	3,320	3,516	3,724
Petroleum.....	22	20	57	45	8	18	24
Gas.....	9	50	193	244	65	115	87
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	2,916	3,043	3,899	3,916	3,393	3,649	3,834

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Dakota									
Retail Sales (thousand megawatthours)									
Residential.....	2,866	3,268	3,423	3,580	3,733	3,740	3,696	45.2	40.1
Commercial.....	1,450	2,088	2,422	2,915	3,062	3,713	3,627	22.9	39.4
Industrial.....	1,657	1,722	2,003	1,666	1,604	1,627	1,891	26.2	20.5
Other.....	361	335	435	465	538	NA	NA	5.7	NA
Total.....	6,334	7,414	8,283	8,627	8,937	9,080	9,214	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	199	231	254	266	276	280	283	51.3	47.6
Commercial.....	97	137	161	191	191	224	224	25.0	37.7
Industrial.....	77	76	90	74	73	73	87	19.8	14.6
Other.....	15	15	19	17	20	NA	NA	3.9	NA
Total.....	388	460	523	548	560	577	594	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.95	7.08	7.42	7.42	7.40	7.47	7.65	NA	NA
Commercial.....	6.68	6.55	6.64	6.55	6.24	6.03	6.18	NA	NA
Industrial.....	4.66	4.43	4.49	4.46	4.54	4.51	4.59	NA	NA
Other.....	4.11	4.58	4.30	3.71	3.63	NA	NA	NA	NA
Total.....	6.13	6.20	6.32	6.35	6.26	6.35	6.44	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
South Dakota								
Number of Entities.....	6	35	1	30	NA	NA	NA	72
Number of Retail Customers.....	216,857	56,190	23	135,214	NA	NA	NA	408,284
Retail Sales (thousand megawatthours).....	4,846	1,300	312	2,756	NA	NA	NA	9,214
Percentage of Retail Sales.....	52.59	14.11	3.38	29.91	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	330	69	5	190	NA	NA	NA	594
Percentage of Revenue.....	55.57	11.58	.83	32.03	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.81	5.29	1.58	6.90	NA	NA	NA	6.44

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.

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Tennessee		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	20,941	18
Electric Utilities	19,239	12
Independent Power Producers & Combined Heat and Power	1,702	36
Net Generation (megawatthours).....	97,594,542	17
Electric Utilities	94,371,964	9
Independent Power Producers & Combined Heat and Power	3,222,578	39
Emissions (thousand metric tons)		
Sulfur Dioxide	318	13
Nitrogen Oxide.....	105	14
Carbon Dioxide.....	58,491	15
Sulfur Dioxide (lbs/MWh).....	7.2	13
Nitrogen Oxide (lbs/MWh).....	2.4	27
Carbon Dioxide (lbs/MWh).....	1,321	27
Total Retail Sales (megawatthours).....	99,660,665	13
Full Service Provider Sales (megawatthours).....	99,660,665	11
Direct Use (megawatthours).....	3,392,795	13
Average Retail Price (cents/kWh).....	6.14	39

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Tennessee			
1. Cumberland	Petroleum,Coal	Tennessee Valley Authority	2,465
2. Johnsonville.....	Petroleum,Gas,Coal	Tennessee Valley Authority	2,341
3. Sequoyah	Nuclear	Tennessee Valley Authority	2,277
4. Raccoon Mountain	Pumped Storage	Tennessee Valley Authority	1,597
5. Gallatin	Petroleum,Gas,Coal	Tennessee Valley Authority	1,575
6. Kingston.....	Petroleum,Coal	Tennessee Valley Authority	1,426
7. Allen Steam Plant	Gas,Petroleum,Coal	Tennessee Valley Authority	1,203
8. Watts Bar Nuclear Plant	Nuclear	Tennessee Valley Authority	1,121
9. Lagoon Creek	Petroleum,Gas	Tennessee Valley Authority	941
10. Bull Run.....	Petroleum,Coal	Tennessee Valley Authority	881

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Tennessee						
1. Memphis City of.....	Public	14,174,294	5,260,624	4,850,822	4,061,810	1,038
2. Nashville Electric Service	Public	12,134,654	4,481,752	4,480,352	3,172,550	0
3. Tennessee Valley Authority	Federal	8,977,536	0	0	8,977,536	0
4. Chattanooga City of.....	Public	5,699,518	2,030,734	1,884,435	1,784,349	0
5. Knoxville Utilities Board	Public	5,682,248	2,389,358	1,824,198	1,468,692	0
Total Sales, Top Five Providers.....		46,668,250	14,162,468	13,039,807	19,464,937	1,038
Percent of Total State Sales		47	37	46	59	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Tennessee									
Electric Utilities	16,996	16,144	17,893	18,600	19,136	19,235	19,239	97.8	91.9
Coal.....	9,289	8,615	8,618	8,618	8,602	8,609	8,623	53.4	41.2
Petroleum.....	0	0	0	36	56	56	56	.0	.3
Natural Gas.....	0	0	308	0	0	0	0	.0	.0
Dual Fired.....	1,668	1,568	1,836	2,760	3,116	3,128	3,137	9.6	15.0
Nuclear.....	2,296	2,217	3,367	3,367	3,389	3,398	3,398	13.2	16.2
Hydroelectric	2,211	2,212	2,230	2,239	2,348	2,389	2,429	12.7	11.6
Other Renewables.....	0	0	2	2	2	2	0	.0	.0
Pumped Storage.....	1,532	1,532	1,532	1,578	1,624	1,652	1,597	8.8	7.6
Independent Power Producers and Combined									
Heat and Power	387	614	1,564	1,559	1,587	1,659	1,702	2.2	8.1
Coal.....	314	332	363	295	276	276	276	1.8	1.3
Natural Gas.....	0	28	966	1,026	1,034	1,034	1,034	.0	4.9
Dual Fired.....	24	0	4	0	0	72	72	.1	.3
Hydroelectric	0	170	170	165	165	165	179	.0	.9
Other Renewables.....	11	46	23	74	112	112	141	.1	.7
Other	38	38	38	0	0	0	0	.2	.0
Total Electric Industry	17,383	16,759	19,457	20,160	20,723	20,893	20,941	100.0	100.0
Coal.....	9,603	8,947	8,981	8,913	8,878	8,885	8,899	55.2	42.5
Petroleum.....	0	0	0	36	56	56	56	.0	.3
Natural Gas.....	0	28	1,274	1,026	1,034	1,034	1,034	.0	4.9
Dual Fired.....	1,692	1,568	1,840	2,760	3,116	3,200	3,209	9.7	15.3
Nuclear.....	2,296	2,217	3,367	3,367	3,389	3,398	3,398	13.2	16.2
Hydroelectric	2,211	2,382	2,400	2,404	2,513	2,554	2,608	12.7	12.5
Other Renewables.....	11	46	25	76	114	114	141	.1	.7
Pumped Storage.....	1,532	1,532	1,532	1,578	1,624	1,652	1,597	8.8	7.6
Other	38	38	38	0	0	0	0	.2	.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Tennessee									
Electric Utilities	73,902,614	82,277,534	92,311,813	92,937,315	92,570,929	88,678,127	94,371,964	97.0	96.7
Coal.....	50,186,951	57,971,909	60,675,314	58,166,973	58,080,553	53,376,149	56,583,558	65.9	58.0
Petroleum.....	134,397	252,611	539,784	379,703	250,325	379,007	166,943	.2	.2
Natural Gas.....	41,463	158,234	127,250	5,316	40,414	408,059	173,999	.1	.2
Nuclear.....	14,002,591	15,708,421	25,824,858	28,576,431	27,573,925	24,152,580	28,612,271	18.4	29.3
Hydroelectric.....	10,015,363	8,801,848	5,876,058	6,542,616	7,317,487	11,087,048	9,649,206	13.1	9.9
Other Renewables.....	0	0	0	0	4,068	3,933	3,813	.0	*
Pumped Storage.....	-478,151	-615,489	-731,451	-733,724	-695,843	-728,649	-817,826	-.6	-.8
Independent Power Producers and Combined									
Heat and Power	2,284,995	3,453,301	3,526,771	3,284,661	3,543,333	3,543,663	3,222,578	3.0	3.3
Coal.....	1,638,655	1,503,095	1,544,196	1,563,059	1,625,128	1,545,148	1,733,922	2.2	1.8
Petroleum.....	2,670	4,774	22,386	20,361	19,288	26,803	23,414	*	*
Natural Gas.....	182,683	316,861	521,521	450,187	429,159	218,927	126,503	.2	.1
Other Gases.....	4,210	11,062	13,833	18,496	11,873	2,834	0	*	.0
Hydroelectric.....	0	826,703	520,151	403,913	656,175	916,598	758,906	.0	.8
Other Renewables.....	411,777	632,743	799,649	828,645	798,396	828,187	579,834	.5	.6
Other.....	45,000	158,063	105,035	0	3,314	5,166	0	.1	.0
Total Electric Industry	76,187,609	85,730,835	95,838,584	96,221,976	96,114,262	92,221,791	97,594,542	100.0	100.0
Coal.....	51,825,606	59,475,004	62,219,510	59,730,032	59,705,681	54,921,297	58,317,480	68.0	59.8
Petroleum.....	137,067	257,385	562,170	400,064	269,613	405,810	190,357	.2	.2
Natural Gas.....	224,146	475,095	648,771	455,503	469,573	626,986	300,502	.3	.3
Other Gases.....	4,210	11,062	13,833	18,496	11,873	2,834	0	*	.0
Nuclear.....	14,002,591	15,708,421	25,824,858	28,576,431	27,573,925	24,152,580	28,612,271	18.4	29.3
Hydroelectric.....	10,015,363	9,628,551	6,396,209	6,946,529	7,973,662	12,003,646	10,408,112	13.1	10.7
Other Renewables.....	411,777	632,743	799,649	828,645	802,464	832,120	583,647	.5	.6
Pumped Storage.....	-478,151	-615,489	-731,451	-733,724	-695,843	-728,649	-817,826	-.6	-.8
Other.....	45,000	158,063	105,035	0	3,314	5,166	0	.1	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Tennessee							
Coal (cents per million Btu).....	134.2	115.2	110.6	122.0	W	W	W
Average heat value (Btu per pound).....	11,966	12,130	11,629	12,159	11,631	11,465	11,457
Average sulfur Content (percent).....	2.0	2.0	1.5	1.4	1.3	1.2	1.3
Petroleum (cents per million Btu).....	560.8	397.4	635.2	553.8	536.3	619.3	842.3
Average heat value (Btu per gallon).....	138,826	138,264	139,900	145,952	138,486	139,902	139,357
Average sulfur Content (percent).....	.5	.5	.5	.5	.5	.5	.5
Natural Gas (cents per million Btu).....	.0	.0	.0	.0	322.6	619.7	W
Average heat value (Btu per cubic foot).....	0	0	0	0	1,024	1,025	1,035

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Tennessee							
Sulfur Dioxide							
Coal	760	494	432	372	320	336	310
Petroleum.....	*	*	*	*	1	1	1
Natural Gas	0	0	*	0	0	0	0
Other.....	3	5	3	7	9	7	7
Total.....	764	500	436	379	330	344	318
Nitrogen Oxide							
Coal	237	239	156	161	149	127	104
Petroleum.....	*	*	*	*	*	*	*
Gas.....	1	1	1	1	1	1	*
Other.....	1	2	2	3	3	1	1
Total.....	239	243	160	165	154	129	105
Carbon Dioxide							
Coal	51,805	57,713	61,990	59,979	58,310	54,782	57,913
Petroleum.....	128	208	466	402	268	459	242
Gas.....	416	727	827	564	506	571	320
Geothermal.....	0	0	0	0	0	0	0
Other.....	38	31	29	27	30	8	16
Total.....	52,387	58,679	63,311	60,972	59,113	55,820	58,491

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Tennessee									
Retail Sales (thousand megawatthours)									
Residential.....	28,757	30,967	36,622	36,932	38,752	37,697	38,526	37.3	38.7
Commercial	12,128	5,176	25,757	25,974	26,523	27,481	28,249	15.7	28.3
Industrial.....	35,313	44,828	32,289	32,149	31,845	32,278	32,885	45.8	33.0
Other	947	1,060	1,060	1,077	1,113	NA	NA	1.2	NA
Transportation.....	NA	NA	NA	NA	NA	0	1	NA	.0
Total.....	77,145	82,030	95,728	96,131	98,233	97,456	99,661	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,637	1,832	2,316	2,335	2,483	2,467	2,657	40.0	43.5
Commercial	739	344	1,617	1,639	1,712	1,836	1,992	18.0	32.6
Industrial.....	1,656	2,018	1,320	1,301	1,322	1,384	1,466	40.4	24.0
Other	65	80	93	95	99	NA	NA	1.6	NA
Total.....	4,096	4,274	5,346	5,370	5,616	5,687	6,115	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	5.69	5.91	6.32	6.32	6.41	6.54	6.90	NA	NA
Commercial	6.09	6.65	6.28	6.31	6.45	6.68	7.05	NA	NA
Industrial.....	4.69	4.50	4.09	4.05	4.15	4.29	4.46	NA	NA
Other	6.86	7.56	8.79	8.83	8.92	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	.00	11.75	NA	NA
Total.....	5.31	5.21	5.58	5.59	5.72	5.83	6.14	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Tennessee								
Number of Entities.....	3	62	1	25	NA	NA	NA	91
Number of Retail Customers.....	45,871	2,050,524	39	866,388	NA	NA	NA	2,962,822
Retail Sales (thousand megawatthours)	2,035	68,431	8,978	20,217	NA	NA	NA	99,661
Percentage of Retail Sales	2.04	68.66	9.01	20.29	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	86	4,366	288	1,375	NA	NA	NA	6,115
Percentage of Revenue.....	1.40	71.40	4.70	22.49	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.22	6.38	3.20	6.80	NA	NA	NA	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.

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Table 1. 2004 Summary Statistics

Item	Value	U.S. Rank
Texas		
NERC Region(s).....		ERCOT/SPP/WSCC/SERC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	101,104	1
Electric Utilities	22,897	9
Independent Power Producers & Combined Heat and Power	78,207	1
Net Generation (megawatthours).....	390,299,132	1
Electric Utilities	92,054,150	10
Independent Power Producers & Combined Heat and Power	298,244,982	1
Emissions (thousand metric tons)		
Sulfur Dioxide	575	5
Nitrogen Oxide	226	3
Carbon Dioxide	255,651	1
Sulfur Dioxide (lbs/MWh).....	3.2	34
Nitrogen Oxide (lbs/MWh).....	1.3	40
Carbon Dioxide (lbs/MWh).....	1,444	22
Total Retail Sales (megawatthours).....	320,614,840	1
Full Service Provider Sales (megawatthours).....	320,614,840	1
Direct Use (megawatthours).....	41,749,468	1
Average Retail Price (cents/kWh).....	7.95	15

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Texas			
1. W A Parish.....	Gas,Coal	Texas Genco II, LP	3,653
2. South Texas Project	Nuclear	STP Nuclear Operating Co	2,560
3. Comanche Peak	Nuclear	TXU Generation Co LP	2,300
4. Cedar Bayou.....	Petroleum,Gas	Texas Genco II, LP	2,258
5. Martin Lake.....	Petroleum,Coal	TXU Generation Co LP	2,250
6. P H Robinson	Gas	Texas Genco II, LP	2,211
7. Monticello.....	Petroleum,Coal	TXU Generation Co LP	1,880
8. Sabine	Petroleum,Gas	Energy Gulf States Inc	1,809
9. Fayette Power Project	Petroleum,Coal	Lower Colorado River Authority	1,641
10. Forney Energy Center	Gas	FPLE Forney LP	1,640

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Texas						
1. TXU Energy Retail Co LP.....	Power Marketer	69,343,637	33,512,159	10,365,790	25,387,564	78,124
2. Reliant Energy Retail Services	Power Marketer	32,920,892	23,831,313	9,089,579	0	0
3. Reliant Energy Solutions.....	Power Marketer	22,523,958	0	0	22,523,958	0
4. San Antonio Public Service Bd	Public	17,206,842	7,457,217	7,597,444	2,152,181	0
5. Entergy Gulf States Inc.....	Investor-Owned	16,025,725	5,125,646	4,060,966	6,839,113	0
Total Sales, Top Five Providers.....		158,021,054	69,926,335	31,113,779	56,902,816	78,124
Percent of Total State Sales		49	58	31	57	96

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Texas									
Electric Utilities	62,034	64,424	65,383	38,940	38,903	22,629	22,897	89.7	22.6
Coal.....	18,590	19,399	19,473	12,471	12,398	8,189	8,320	26.9	8.2
Petroleum.....	42	38	36	4	4	4	12	.1	*
Natural Gas.....	9,058	8,883	9,458	8,467	11,031	5,288	6,390	13.1	6.3
Dual Fired.....	30,024	30,622	30,907	14,764	12,244	8,442	7,499	43.4	7.4
Nuclear.....	3,651	4,802	4,800	2,529	2,529	0	0	5.3	.0
Hydroelectric	640	680	696	690	690	692	661	.9	.7
Other Renewables.....	29	0	1	3	7	1	1	*	*
Other	0	0	13	13	0	13	13	.0	*
Independent Power Producers and Combined									
Heat and Power	7,122	8,239	16,512	49,015	55,586	76,964	78,207	10.3	77.4
Coal.....	338	338	338	7,442	7,798	11,864	11,881	.5	11.8
Petroleum.....	79	66	39	514	470	477	76	.1	.1
Natural Gas.....	4,849	6,521	14,405	19,962	25,348	36,327	38,496	7.0	38.1
Other Gases	252	163	171	155	295	289	359	.4	.4
Dual Fired.....	1,394	883	1,193	17,517	18,141	21,711	20,972	2.0	20.7
Nuclear.....	0	0	0	2,208	2,208	4,768	4,860	.0	4.8
Hydroelectric	0	0	2	7	7	7	7	.0	*
Other Renewables.....	142	198	358	1,033	1,200	1,432	1,431	.2	1.4
Other	70	70	6	178	118	89	123	.1	.1
Total Electric Industry	69,156	72,663	81,895	87,956	94,488	99,594	101,104	100.0	100.0
Coal.....	18,928	19,737	19,811	19,913	20,196	20,053	20,201	27.4	20.0
Petroleum.....	121	104	74	518	473	481	88	.2	.1
Natural Gas.....	13,907	15,404	23,863	28,429	36,379	41,615	44,887	20.1	44.4
Other Gases	252	163	171	155	295	289	359	.4	.4
Dual Fired.....	31,417	31,504	32,099	32,282	30,385	30,152	28,471	45.4	28.2
Nuclear.....	3,651	4,802	4,800	4,737	4,737	4,768	4,860	5.3	4.8
Hydroelectric	640	680	697	697	697	699	668	.9	.7
Other Renewables.....	171	199	360	1,035	1,208	1,434	1,433	.2	1.4
Other	70	70	19	191	118	102	136	.1	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Texas									
Electric Utilities	234,047,343	261,708,943	297,298,634	265,012,955	149,587,269	86,882,044	92,054,150	83.1	23.6
Coal.....	118,354,490	122,149,283	137,876,671	132,296,611	90,259,574	60,288,940	63,893,450	42.0	16.4
Petroleum.....	480,617	203,267	1,200,446	1,741,052	25,987	257,818	67,624	.2	*
Natural Gas.....	97,279,980	101,501,467	119,840,216	91,617,908	39,173,483	25,473,500	26,726,978	34.5	6.8
Nuclear.....	15,859,258	36,151,325	37,555,807	38,162,863	19,049,602	0	0	5.6	.0
Hydroelectric.....	1,793,625	1,703,348	825,453	1,194,526	1,076,338	858,933	1,266,098	.6	.3
Other Renewables.....	279,373	253	41	-5	2,285	2,852	2,454	.1	*
Other.....	0	0	0	0	0	0	97,546	.0	*
Independent Power Producers and Combined									
Heat and Power	47,512,292	55,927,303	80,443,731	107,567,047	236,041,273	292,317,641	298,244,982	16.9	76.4
Coal.....	2,566,906	2,567,665	2,795,293	2,803,310	51,587,666	86,700,570	84,991,205	.9	21.8
Petroleum.....	1,347,186	1,404,528	1,615,196	1,062,351	1,594,977	2,257,437	1,673,060	.5	.4
Natural Gas.....	38,954,345	45,477,241	68,893,079	98,493,073	157,259,927	159,437,850	160,076,433	13.8	41.0
Other Gases.....	2,997,509	4,276,154	3,798,047	1,574,325	3,052,992	5,999,489	5,823,967	1.1	1.5
Nuclear.....	0	0	0	0	16,568,402	33,437,484	40,435,372	.0	10.4
Hydroelectric.....	0	0	3,510	5,806	47,154	37,606	34,511	.0	*
Other Renewables.....	1,157,615	1,412,152	1,770,566	2,195,086	3,991,150	3,962,885	4,362,061	.4	1.1
Other.....	488,731	789,563	1,568,040	1,433,096	1,939,005	484,320	848,373	.2	.2
Total Electric Industry	281,559,635	317,636,246	377,742,365	372,580,002	385,628,542	379,199,685	390,299,132	100.0	100.0
Coal.....	120,921,396	124,716,948	140,671,964	135,099,921	141,847,240	146,989,510	148,884,655	42.9	38.1
Petroleum.....	1,827,803	1,607,795	2,815,642	2,803,403	1,620,964	2,515,255	1,740,684	.6	.4
Natural Gas.....	136,234,325	146,978,708	188,733,295	190,110,981	196,433,410	184,911,350	186,803,411	48.4	47.9
Other Gases.....	2,997,509	4,276,154	3,798,047	1,574,325	3,052,992	5,999,489	5,823,967	1.1	1.5
Nuclear.....	15,859,258	36,151,325	37,555,807	38,162,863	35,618,004	33,437,484	40,435,372	5.6	10.4
Hydroelectric.....	1,793,625	1,703,348	828,963	1,200,332	1,123,492	896,539	1,300,609	.6	.3
Other Renewables.....	1,436,988	1,412,405	1,770,607	2,195,081	3,993,435	3,965,737	4,364,515	.5	1.1
Other.....	488,731	789,563	1,568,040	1,433,096	1,939,005	484,320	945,919	.2	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Texas							
Coal (cents per million Btu).....	145.3	133.7	122.7	133.2	126.5	125.4	130.9
Average heat value (Btu per pound).....	7,291	7,346	7,548	7,640	7,700	7,605	7,641
Average sulfur Content (percent).....	.7	.8	.7	.7	.7	.8	.8
Petroleum (cents per million Btu).....	517.3	283.4	617.3	555.6	199.6	422.8	171.1
Average heat value (Btu per gallon).....	141,838	117,557	135,421	142,024	138,090	139,979	137,700
Average sulfur Content (percent).....	.5	1.6	.3	.4	3.9	1.4	3.3
Natural Gas (cents per million Btu).....	210.2	188.9	415.5	420.9	331.7	528.1	576.9
Average heat value (Btu per cubic foot).....	1,035	1,023	1,020	1,027	1,019	1,029	1,026

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Texas							
Sulfur Dioxide							
Coal	484	516	567	551	559	573	531
Petroleum.....	74	37	45	36	6	22	21
Natural Gas	*	*	1	2	1	1	1
Other.....	10	15	12	8	10	18	21
Total.....	569	568	626	597	576	614	575
Nitrogen Oxide							
Coal	471	445	220	190	170	146	132
Petroleum.....	4	3	4	3	3	5	7
Gas.....	181	178	202	192	147	93	81
Other.....	6	8	5	5	9	7	7
Total.....	663	634	432	389	329	252	226
Carbon Dioxide							
Coal	122,549	126,580	143,779	138,208	144,241	149,718	151,111
Petroleum.....	2,627	2,022	3,304	3,376	2,324	2,888	2,620
Gas.....	83,310	89,812	113,314	110,343	109,194	102,349	101,921
Geothermal	0	0	0	0	0	0	0
Other.....	1	0	0	0	47	0	0
Total.....	208,487	218,414	260,396	251,927	255,806	254,955	255,651

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Texas									
Retail Sales (thousand megawatthours)									
Residential.....	82,548	92,831	116,895	117,343	121,435	121,355	120,330	34.8	37.5
Commercial	62,238	68,580	84,848	87,912	87,746	96,694	99,616	26.2	31.1
Industrial.....	84,087	90,093	101,588	98,208	102,251	104,547	100,588	35.4	31.4
Other	8,542	11,775	14,931	14,581	9,414	NA	NA	3.6	NA
Transportation.....	NA	NA	NA	NA	NA	90	81	NA	.0
Total.....	237,415	263,279	318,263	318,044	320,846	322,686	320,615	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	5,947	7,162	9,305	10,399	9,778	11,111	11,707	43.4	45.9
Commercial	3,843	4,556	5,835	6,807	6,095	7,581	7,867	28.0	30.9
Industrial.....	3,391	3,590	4,491	5,174	4,761	5,512	5,902	24.7	23.2
Other	534	758	1,011	1,103	616	NA	NA	3.9	NA
Transportation.....	NA	NA	NA	NA	NA	6	6	NA	.0
Total.....	13,715	16,066	20,642	23,484	21,251	24,211	25,482	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.20	7.71	7.96	8.86	8.05	9.16	9.73	NA	NA
Commercial	6.17	6.64	6.88	7.74	6.95	7.84	7.90	NA	NA
Industrial.....	4.03	3.98	4.42	5.27	4.66	5.27	5.87	NA	NA
Other	6.25	6.44	6.77	7.56	6.55	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	6.62	7.02	NA	NA
Total.....	5.78	6.10	6.49	7.38	6.62	7.50	7.95	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Texas								
Number of Entities.....	58	72	NA	68	9	NA	NA	207
Number of Retail Customers.....	7,000,459	1,524,291	NA	1,614,104	10	NA	NA	10,138,864
Retail Sales (thousand megawatthours)	245,109	41,256	NA	31,751	2,499	NA	NA	320,615
Percentage of Retail Sales	76.45	12.87	NA	9.90	.78	NA	NA	100.00
Revenue from Retail Sales (million dollars)	19,619	3,029	NA	2,702	132	NA	NA	25,482
Percentage of Revenue.....	76.99	11.89	NA	10.60	.52	NA	NA	100.00
Average Retail Price (cents/kWh).....	8.00	7.34	NA	8.51	5.29	NA	NA	7.95

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Utah		
NERC Region(s).....		WECC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,190	39
Electric Utilities	5,754	31
Independent Power Producers & Combined Heat and Power	437	46
Net Generation (megawatthours).....	38,211,977	35
Electric Utilities	37,165,917	29
Independent Power Producers & Combined Heat and Power	1,046,060	44
Emissions (thousand metric tons)		
Sulfur Dioxide	34	38
Nitrogen Oxide.....	69	25
Carbon Dioxide.....	35,167	28
Sulfur Dioxide (lbs/MWh).....	2.0	40
Nitrogen Oxide (lbs/MWh).....	4.0	7
Carbon Dioxide (lbs/MWh).....	2,029	8
Total Retail Sales (megawatthours).....	24,511,704	37
Full Service Provider Sales (megawatthours).....	24,511,704	37
Direct Use (megawatthours).....	360,581	40
Average Retail Price (cents/kWh).....	5.69	44

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Utah			
1. Intermountain Power Project	Petroleum,Coal	Los Angeles City of	1,800
2. Hunter	Petroleum,Coal	PacifiCorp	1,320
3. Huntington.....	Petroleum,Coal	PacifiCorp	895
4. Bonanza	Petroleum,Coal	Deseret Generation & Tran Coop	458
5. Gadsby	Gas	PacifiCorp	349
6. KUCC	Gas,Coal	Kennecott Utah Copper Corporation	187
7. West Valley Generation Project	Gas	PacifiCorp	185
8. Carbon	Petroleum,Coal	PacifiCorp	172
9. Murray Turbine	Gas	Murray City of	159
10. Flaming Gorge.....	Hydroelectric	U S Bureau of Reclamation	152

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Utah						
1. PacifiCorp	Investor-Owned	19,731,527	5,530,304	7,103,259	7,072,610	25,354
2. Provo City Corp.....	Public	715,668	218,306	372,773	124,589	0
3. St George City of.....	Public	523,000	243,000	280,000	0	0
4. Logan City of.....	Public	396,991	87,767	163,958	145,266	0
5. Murray City of.....	Public	377,964	111,028	266,936	0	0
Total Sales, Top Five Providers.....		21,745,150	6,190,405	8,186,926	7,342,465	25,354
Percent of Total State Sales		89	85	88	94	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Utah									
Electric Utilities	4,805	4,927	5,111	5,129	5,573	5,574	5,754	98.3	93.0
Coal.....	4,316	4,374	4,464	4,464	4,461	4,461	4,645	88.3	75.0
Petroleum.....	26	25	44	32	28	28	28	.5	.5
Natural Gas.....	179	173	238	268	719	719	731	3.7	11.8
Dual Fired.....	49	58	64	82	81	82	75	1.0	1.2
Hydroelectric	213	261	265	251	252	252	252	4.4	4.1
Other Renewables.....	21	35	35	33	33	33	23	.4	.4
Independent Power Producers and Combined									
Heat and Power	82	137	111	179	179	222	437	1.7	7.1
Coal.....	0	54	100	101	101	144	181	.0	2.9
Petroleum.....	3	0	0	3	3	3	0	.1	.0
Natural Gas.....	2	2	4	72	72	72	193	*	3.1
Other Gases	48	48	0	0	0	0	0	1.0	.0
Dual Fired.....	19	22	2	0	0	0	2	.4	*
Hydroelectric	10	10	4	2	2	2	2	.2	*
Other Renewables.....	0	0	1	1	1	1	1	.0	*
Other	0	0	0	0	0	0	57	.0	.9
Total Electric Industry	4,886	5,063	5,223	5,308	5,752	5,797	6,190	100.0	100.0
Coal.....	4,316	4,429	4,565	4,565	4,562	4,606	4,826	88.3	78.0
Petroleum.....	30	25	44	35	31	31	28	.6	.5
Natural Gas.....	181	175	242	340	791	791	924	3.7	14.9
Other Gases	48	48	0	0	0	0	0	1.0	.0
Dual Fired.....	68	79	66	82	81	82	77	1.4	1.2
Hydroelectric	223	271	269	253	254	254	254	4.6	4.1
Other Renewables.....	21	35	36	34	34	34	24	.4	.4
Other	0	0	0	0	0	0	57	.0	.9

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Utah									
Electric Utilities	32,260,340	32,101,107	35,827,490	35,138,801	36,071,946	37,544,892	37,165,917	99.1	97.3
Coal.....	31,519,477	30,259,914	34,045,804	33,204,340	34,080,979	35,579,158	35,634,374	96.8	93.3
Petroleum.....	49,262	34,000	56,940	57,538	53,469	31,386	32,567	.2	.1
Natural Gas.....	54,034	741,115	830,557	1,223,978	1,268,326	1,322,984	864,181	.2	2.3
Hydroelectric.....	485,742	926,336	737,830	500,203	451,521	412,899	439,919	1.5	1.2
Other Renewables.....	151,825	139,742	151,843	152,742	217,651	198,465	194,876	.5	.5
Pumped Storage.....	0	0	4,516	0	0	0	0	.0	.0
Independent Power Producers and Combined									
Heat and Power	303,199	706,281	781,584	714,949	536,057	478,774	1,046,060	.9	2.7
Coal.....	3,449	351,149	445,620	474,968	406,744	399,490	983,480	*	2.6
Petroleum.....	2,590	1,934	1,031	38	50	1,480	0	*	.0
Natural Gas.....	92,454	50,097	59,671	222,099	111,855	60,123	45,669	.3	.1
Other Gases.....	182,005	260,694	257,857	0	0	0	0	.6	.0
Hydroelectric.....	22,701	42,407	8,295	8,202	6,211	8,440	9,929	.1	*
Other Renewables.....	0	0	9,110	9,642	11,197	9,241	6,982	.0	*
Total Electric Industry	32,563,539	32,807,388	36,609,074	35,853,750	36,608,003	38,023,666	38,211,977	100.0	100.0
Coal.....	31,522,926	30,611,063	34,491,424	33,679,308	34,487,723	35,978,648	36,617,854	96.8	95.8
Petroleum.....	51,852	35,934	57,971	57,576	53,519	32,866	32,567	.2	.1
Natural Gas.....	146,488	791,212	890,228	1,446,077	1,380,181	1,383,107	909,850	.4	2.4
Other Gases.....	182,005	260,694	257,857	0	0	0	0	.6	.0
Hydroelectric.....	508,443	968,743	746,125	508,405	457,732	421,339	449,848	1.6	1.2
Other Renewables.....	151,825	139,742	160,953	162,384	228,848	207,706	201,858	.5	.5
Pumped Storage.....	0	0	4,516	0	0	0	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Utah							
Coal (cents per million Btu).....	116.7	109.4	101.3	112.3	W	W	W
Average heat value (Btu per pound).....	11,483	11,550	11,678	11,375	11,259	11,025	10,718
Average sulfur Content (percent).....	.5	.5	.4	.5	.5	.5	.5
Petroleum (cents per million Btu).....	541.5	504.6	678.6	634.5	556.4	722.2	923.7
Average heat value (Btu per gallon).....	140,000	139,340	139,293	139,405	140,364	139,493	139,512
Average sulfur Content (percent).....	.3	.2	.2	.3	.3	.2	.2
Natural Gas (cents per million Btu).....	503.5	214.5	383.6	463.6	W	W	W
Average heat value (Btu per cubic foot).....	1,000	1,055	1,049	1,037	1,006	1,062	1,049

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Utah							
Sulfur Dioxide							
Coal	29	26	26	43	46	32	34
Petroleum.....	*	*	0	*	*	*	*
Natural Gas	0	0	0	*	0	*	0
Other.....	0	0	*	*	*	*	*
Total.....	29	26	26	44	46	32	34
Nitrogen Oxide							
Coal	109	102	72	69	69	67	68
Petroleum.....	*	*	*	*	*	*	*
Gas.....	*	1	1	1	1	*	*
Other.....	0	0	*	*	*	*	*
Total.....	109	103	73	70	70	68	69
Carbon Dioxide							
Coal	29,164	29,457	33,036	32,308	32,534	33,559	34,555
Petroleum.....	40	28	43	46	41	26	26
Gas.....	112	514	692	1,019	831	779	524
Geothermal.....	4	4	4	4	6	5	5
Other.....	0	0	16	15	59	54	57
Total.....	29,319	30,003	33,791	33,393	33,471	34,423	35,167

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Utah									
Retail Sales (thousand megawatthours)									
Residential.....	4,246	5,041	6,514	6,693	6,938	7,166	7,325	27.6	29.9
Commercial	4,515	5,642	7,884	8,262	8,463	9,024	9,345	29.3	38.1
Industrial.....	5,766	6,957	7,917	7,411	7,019	7,646	7,816	37.4	31.9
Other	875	820	870	851	846	NA	NA	5.7	NA
Transportation.....	NA	NA	NA	NA	NA	25	25	NA	.1
Total.....	15,402	18,460	23,185	23,217	23,267	23,860	24,512	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	303	350	410	450	471	494	528	36.0	37.8
Commercial	283	334	412	461	474	504	551	33.7	39.5
Industrial.....	219	259	265	262	269	290	314	26.0	22.5
Other	36	37	36	39	40	NA	NA	4.3	NA
Transportation.....	NA	NA	NA	NA	NA	1	2	NA	.1
Total.....	841	979	1,123	1,211	1,255	1,290	1,395	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.13	6.94	6.29	6.72	6.79	6.90	7.21	NA	NA
Commercial	6.26	5.92	5.23	5.57	5.60	5.59	5.90	NA	NA
Industrial.....	3.80	3.72	3.35	3.53	3.84	3.79	4.01	NA	NA
Other	4.16	4.46	4.14	4.53	4.69	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	6.00	6.57	NA	NA
Total.....	5.46	5.30	4.84	5.21	5.39	5.41	5.69	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Utah								
Number of Entities.....	2	41	1	9	NA	NA	NA	53
Number of Retail Customers.....	717,584	199,820	9	34,390	NA	NA	NA	951,803
Retail Sales (thousand megawatthours)	19,741	3,918	48	804	NA	NA	NA	24,512
Percentage of Retail Sales	80.54	15.99	.20	3.28	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,057	287	2	50	NA	NA	NA	1,395
Percentage of Revenue.....	75.77	20.54	.12	3.58	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.35	7.31	3.36	6.21	NA	NA	NA	5.69

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Vermont		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	998	50
Electric Utilities	251	45
Independent Power Producers & Combined Heat and Power	747	42
Net Generation (megawatthours).....	5,470,379	49
Electric Utilities	643,426	45
Independent Power Producers & Combined Heat and Power	4,826,953	35
Emissions (thousand metric tons)		
Sulfur Dioxide	*	51
Nitrogen Oxide	*	50
Carbon Dioxide	22	51
Sulfur Dioxide (lbs/MWh).....	.0	51
Nitrogen Oxide (lbs/MWh).....	.1	51
Carbon Dioxide (lbs/MWh).....	9	51
Total Retail Sales (megawatthours).....	5,663,772	51
Full Service Provider Sales (megawatthours).....	5,663,772	50
Direct Use (megawatthours).....	70,982	47
Average Retail Price (cents/kWh).....	11.02	5

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Vermont			
1. Vermont Yankee	Nuclear	Entergy Nuclear Vermont Yankee	506
2. J C McNeil	Petroleum,Gas,Other	Burlington City of	52
3. Bellows Falls	Hydroelectric	U S Gen New England Inc	49
4. Wilder	Hydroelectric	U S Gen New England Inc	41
5. Harriman	Hydroelectric	U S Gen New England Inc	40
6. Berlin 5.....	Petroleum	Green Mountain Power Corp	35
7. Vernon	Hydroelectric	U S Gen New England Inc	24
8. Sheldon Springs Hydroelectric	Hydroelectric	Sheldon Vermont Hydro Co., Inc.	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, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Vermont						
1. Central Vermont Pub Serv Corp.....	Investor-Owned	2,241,677	955,261	867,325	419,091	0
2. Green Mountain Power Corp.....	Investor-Owned	1,969,925	583,449	719,973	666,503	0
3. Vermont Electric Coop, Inc.....	Cooperative	382,028	209,692	90,016	82,320	0
4. Burlington City of	Public	353,053	92,779	192,418	67,856	0
5. Omya Inc	Investor-Owned	216,857	6,169	4,634	206,054	0
Total Sales, Top Five Providers.....		5,163,540	1,847,350	1,874,366	1,441,824	0
Percent of Total State Sales		91	88	95	91	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Vermont									
Electric Utilities	1,065	1,090	777	262	261	260	251	96.0	25.1
Petroleum.....	117	118	112	111	107	107	101	10.5	10.1
Nuclear.....	496	496	506	0	0	0	0	44.7	.0
Hydroelectric	404	426	106	99	102	96	93	36.4	9.3
Other Renewables.....	47	50	53	52	53	57	57	4.2	5.7
Independent Power Producers and Combined									
Heat and Power	44	71	207	707	732	737	747	4.0	74.8
Petroleum.....	0	0	0	0	0	0	7	.0	.7
Nuclear.....	0	0	0	506	506	506	506	.0	50.7
Hydroelectric	40	47	183	178	203	208	211	3.6	21.1
Other Renewables.....	4	24	24	24	24	24	24	.4	2.4
Total Electric Industry	1,109	1,161	984	970	994	997	998	100.0	100.0
Petroleum.....	117	118	112	111	107	107	107	10.5	10.7
Nuclear.....	496	496	506	506	506	506	506	44.7	50.7
Hydroelectric	444	474	289	277	305	303	304	40.0	30.5
Other Renewables.....	51	74	76	76	76	81	81	4.6	8.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Vermont									
Electric Utilities	4,992,578	4,839,820	5,307,016	4,734,002	2,971,224	626,337	643,426	96.7	11.8
Petroleum.....	2,543	13,357	60,660	31,740	9,406	22,607	17,800	*	.3
Natural Gas.....	65,281	6,593	90,790	11,000	3,275	2,029	3,224	1.3	.1
Nuclear.....	3,616,268	3,858,509	4,548,065	4,171,120	2,367,209	0	0	70.0	.0
Hydroelectric	1,214,248	834,193	419,908	330,674	404,227	367,624	395,734	23.5	7.2
Other Renewables.....	94,238	127,168	187,593	189,468	187,107	234,077	226,668	1.8	4.1
Independent Power Producers and Combined									
Heat and Power	171,530	320,242	995,998	746,612	2,484,966	5,401,625	4,826,952	3.3	88.2
Petroleum.....	0	127	220	0	0	0	0	.0	.0
Other Gases.....	0	0	22,417	0	0	0	0	.0	.0
Nuclear.....	0	0	0	0	1,595,407	4,444,152	3,858,020	.0	70.5
Hydroelectric	150,783	138,464	801,182	553,539	710,695	786,414	791,522	2.9	14.5
Other Renewables.....	20,747	181,651	172,179	193,073	178,864	171,059	177,410	.4	3.2
Total Electric Industry	5,164,108	5,160,062	6,303,014	5,480,614	5,456,190	6,027,962	5,470,379	100.0	100.0
Petroleum.....	2,543	13,484	60,880	31,740	9,406	22,607	17,800	*	.3
Natural Gas.....	65,281	6,593	90,790	11,000	3,275	2,029	3,224	1.3	.1
Other Gases.....	0	0	22,417	0	0	0	0	.0	.0
Nuclear.....	3,616,268	3,858,509	4,548,065	4,171,120	3,962,616	4,444,152	3,858,020	70.0	70.5
Hydroelectric	1,365,031	972,657	1,221,090	884,213	1,114,922	1,154,038	1,187,256	26.4	21.7
Other Renewables.....	114,985	308,819	359,772	382,541	365,971	405,136	404,078	2.2	7.4

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Vermont							
Natural Gas (cents per million Btu)	0.0	195.3	485.5	477.6	383.7	0.0	0.0
Average heat value (Btu per cubic foot)	0	1,001	1,012	1,012	1,018	0	0

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Vermont							
Sulfur Dioxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	*	0	*	0	0	*	*
Natural Gas	0	0	0	0	0	0	0
Other.....	*	*	*	*	*	*	*
Total.....	*	*	*	*	*	*	*
Nitrogen Oxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	*	0	*	0	0	*	*
Gas.....	*	*	*	*	0	0	*
Other.....	*	*	*	*	*	*	*
Total.....	*	*	*	*	*	*	*
Carbon Dioxide							
Coal	0	0	0	0	0	0	0
Petroleum.....	5	17	67	37	13	24	19
Gas.....	36	7	54	6	2	2	3
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	42	24	122	43	15	25	22

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Vermont									
Retail Sales (thousand megawatthours)									
Residential.....	1,809	1,973	2,037	2,009	2,047	2,011	2,109	38.4	37.2
Commercial.....	1,484	1,605	1,910	1,926	1,946	1,881	1,978	31.5	34.9
Industrial.....	1,381	1,484	1,646	1,608	1,592	1,460	1,577	29.3	27.8
Other.....	42	42	46	42	45	NA	NA	.9	NA
Total.....	4,716	5,104	5,639	5,585	5,629	5,352	5,664	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	168	208	251	255	262	258	273	43.1	43.8
Commercial.....	126	157	203	217	216	212	226	32.3	36.2
Industrial.....	91	112	120	127	126	117	126	23.3	20.2
Other.....	5	6	6	8	9	NA	NA	1.3	NA
Total.....	390	483	579	607	612	588	624	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.27	10.52	12.30	12.67	12.78	12.82	12.94	NA	NA
Commercial.....	8.50	9.80	10.61	11.28	11.10	11.29	11.42	NA	NA
Industrial.....	6.62	7.56	7.31	7.89	7.90	8.05	7.96	NA	NA
Other.....	12.13	14.03	12.20	18.85	19.26	NA	NA	NA	NA
Total.....	8.28	9.46	10.27	10.86	10.87	10.98	11.02	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Vermont								
Number of Entities.....	4	15	NA	2	NA	NA	NA	21
Number of Retail Customers.....	241,089	53,183	NA	48,888	NA	NA	NA	343,160
Retail Sales (thousand megawatthours).....	4,435	780	NA	449	NA	NA	NA	5,664
Percentage of Retail Sales.....	78.30	13.77	NA	7.93	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	484	85	NA	55	NA	NA	NA	624
Percentage of Revenue.....	77.49	13.68	NA	8.83	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	10.91	10.95	NA	12.28	NA	NA	NA	11.02

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.

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Table 1. 2004 Summary Statistics

Item	Value	U.S. Rank
Virginia		
NERC Region(s).....		ECAR/SERC/MAAC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	22,506	16
Electric Utilities	17,567	14
Independent Power Producers & Combined Heat and Power	4,939	21
Net Generation (megawatthours).....	78,900,040	21
Electric Utilities	65,103,653	16
Independent Power Producers & Combined Heat and Power	13,796,387	19
Emissions (thousand metric tons)		
Sulfur Dioxide	217	19
Nitrogen Oxide	68	26
Carbon Dioxide	46,844	20
Sulfur Dioxide (lbs/MWh).....	6.1	18
Nitrogen Oxide (lbs/MWh).....	1.9	33
Carbon Dioxide (lbs/MWh).....	1,309	29
Total Retail Sales (megawatthours).....	105,424,173	11
Full Service Provider Sales (megawatthours).....	105,398,266	9
Deregulated Sales (megawatthours).....	25,907	20
Direct Use (megawatthours).....	2,998,532	14
Average Retail Price (cents/kWh).....	6.43	32

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Virginia			
1. Bath County.....	Pumped Storage	Dominion Virginia Power	2,462
2. North Anna.....	Hydroelectric,Nuclear	Dominion Virginia Power	1,843
3. Possum Point.....	Coal,Petroleum,Gas	Dominion Virginia Power	1,731
4. Chesterfield.....	Petroleum,Gas,Coal	Dominion Virginia Power	1,631
5. Surry	Nuclear	Dominion Virginia Power	1,598
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. Tenaska Virginia Generating Station	Petroleum,Gas	Tenaska Virginia Partners LP	814
10. Chesapeake	Petroleum,Coal	Dominion Virginia Power	739

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Virginia						
1. Dominion Virginia Power	Investor-Owned	70,936,299	26,823,894	34,899,761	9,050,999	161,645
2. Appalachian Power Co	Investor-Owned	16,165,599	6,362,167	3,942,209	5,861,223	0
3. Potomac Edison Co	Investor-Owned	2,862,888	1,154,704	624,979	1,083,205	0
4. Northern Virginia Elec Coop	Cooperative	2,818,592	1,753,600	715,234	349,758	0
5. Rappahannock Electric Coop	Cooperative	2,364,566	1,308,722	119,835	936,009	0
Total Sales, Top Five Providers.....		95,147,944	37,403,087	40,302,018	17,281,194	161,645
Percent of Total State Sales		90	88	94	88	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Virginia									
Electric Utilities	13,661	14,342	15,606	15,761	15,818	17,128	17,567	90.7	78.1
Coal	4,225	5,451	4,796	4,784	4,789	4,468	4,468	28.0	19.9
Petroleum	1,173	1,207	2,008	2,014	1,917	1,915	2,098	7.8	9.3
Natural Gas	190	413	1,104	1,398	1,244	1,566	874	1.3	3.9
Dual Fired	1,582	749	1,146	1,016	1,019	2,314	3,227	10.5	14.3
Nuclear	3,382	3,392	3,467	3,467	3,467	3,467	3,440	22.4	15.3
Hydroelectric	764	786	741	738	738	759	760	5.1	3.4
Pumped Storage.....	2,345	2,345	2,345	2,345	2,645	2,638	2,700	15.6	12.0
Independent Power Producers and Combined									
Heat and Power	1,404	3,328	3,816	4,325	4,387	4,130	4,939	9.3	21.9
Coal	373	925	1,388	1,353	1,329	1,328	1,329	2.5	5.9
Petroleum	0	6	184	359	358	358	359	.0	1.6
Natural Gas	155	82	422	682	434	430	671	1.0	3.0
Dual Fired	376	1,732	1,229	1,342	1,663	1,417	1,983	2.5	8.8
Hydroelectric	13	22	20	20	20	21	22	.1	.1
Other Renewables.....	486	561	572	570	584	576	575	3.2	2.6
Total Electric Industry	15,065	17,670	19,422	20,086	20,205	21,258	22,506	100.0	100.0
Coal	4,598	6,376	6,185	6,137	6,117	5,796	5,797	30.5	25.8
Petroleum	1,173	1,213	2,191	2,372	2,275	2,273	2,457	7.8	10.9
Natural Gas	345	494	1,526	2,080	1,678	1,996	1,545	2.3	6.9
Dual Fired	1,958	2,482	2,375	2,358	2,682	3,731	5,210	13.0	23.1
Nuclear	3,382	3,392	3,467	3,467	3,467	3,467	3,440	22.4	15.3
Hydroelectric	778	807	761	758	757	780	782	5.2	3.5
Other Renewables.....	487	562	572	570	584	576	575	3.2	2.6
Pumped Storage.....	2,345	2,345	2,345	2,345	2,645	2,638	2,700	15.6	12.0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Virginia									
Electric Utilities	47,200,499	52,727,470	65,842,720	62,135,492	62,880,125	61,806,347	65,103,653	89.8	82.5
Coal.....	21,000,180	24,442,870	33,964,556	30,657,436	31,099,307	29,145,703	27,772,985	40.0	35.2
Petroleum.....	1,194,150	1,119,524	2,408,600	4,854,800	3,454,714	4,982,314	4,664,410	2.3	5.9
Natural Gas.....	758,289	1,880,982	1,839,850	2,130,640	2,128,402	2,690,674	3,976,271	1.4	5.0
Nuclear.....	23,820,152	25,134,831	28,321,091	25,759,130	27,346,163	24,816,022	28,315,294	45.3	35.9
Hydroelectric.....	1,261,363	917,654	649,614	973,563	840,374	1,669,793	1,490,114	2.4	1.9
Other Renewables.....	34	3	0	0	0	0	50,690	.0	.1
Pumped Storage.....	-833,669	-768,394	-1,340,991	-2,240,077	-1,988,835	-1,498,159	-1,166,111	-1.6	-1.5
Independent Power Producers and Combined									
Heat and Power	5,363,959	10,268,551	11,346,650	11,969,258	12,125,527	13,503,073	13,796,387	10.2	17.5
Coal.....	2,899,722	4,054,195	5,796,760	7,112,475	6,983,074	7,947,628	7,885,708	5.5	10.0
Petroleum.....	244,114	481,155	529,944	606,813	337,891	798,022	473,080	.5	.6
Natural Gas.....	376,520	3,550,863	2,813,477	2,065,431	2,258,525	1,928,391	2,441,158	.7	3.1
Other Gases.....	0	0	0	0	0	2,959	0	.0	.0
Hydroelectric.....	48,136	77,372	62,369	40,661	27,842	111,776	92,936	.1	.1
Other Renewables.....	1,795,467	2,099,600	2,144,100	2,143,878	2,518,195	2,714,295	2,903,506	3.4	3.7
Other.....	0	5,366	0	0	0	0	0	.0	.0
Total Electric Industry	52,564,458	62,996,021	77,189,370	74,104,750	75,005,651	75,309,420	78,900,040	100.0	100.0
Coal.....	23,899,902	28,497,065	39,761,316	37,769,911	38,082,381	37,093,331	35,658,693	45.5	45.2
Petroleum.....	1,438,264	1,600,679	2,938,544	5,461,613	3,792,605	5,780,336	5,137,490	2.7	6.5
Natural Gas.....	1,134,809	5,431,845	4,653,327	4,196,071	4,386,927	4,619,065	6,417,429	2.2	8.1
Other Gases.....	0	0	0	0	0	2,959	0	.0	.0
Nuclear.....	23,820,152	25,134,831	28,321,091	25,759,130	27,346,163	24,816,022	28,315,294	45.3	35.9
Hydroelectric.....	1,309,499	995,026	711,983	1,014,224	868,216	1,781,569	1,583,050	2.5	2.0
Other Renewables.....	1,795,501	2,099,603	2,144,100	2,143,878	2,518,195	2,714,295	2,954,196	3.4	3.7
Pumped Storage.....	-833,669	-768,394	-1,340,991	-2,240,077	-1,988,835	-1,498,159	-1,166,111	-1.6	-1.5
Other.....	0	5,366	0	0	0	0	0	.0	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Virginia							
Coal (cents per million Btu).....	154.5	144.8	133.0	159.3	169.2	166.5	195.1
Average heat value (Btu per pound).....	12,714	12,743	12,814	12,732	12,757	12,826	12,713
Average sulfur Content (percent).....	1.0	1.0	1.0	1.0	1.2	1.0	.9
Petroleum (cents per million Btu).....	383.5	250.9	423.9	356.5	380.3	498.7	496.8
Average heat value (Btu per gallon).....	146,360	146,179	151,003	149,024	148,645	149,367	150,757
Average sulfur Content (percent).....	.9	.9	1.1	1.0	1.0	.6	.8
Natural Gas (cents per million Btu).....	258.2	259.1	451.2	439.8	413.4	617.5	665.3
Average heat value (Btu per cubic foot).....	1,041	1,031	1,034	1,027	1,019	1,035	1,032

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Virginia							
Sulfur Dioxide							
Coal	194	219	226	216	234	200	182
Petroleum.....	12	5	16	25	19	25	23
Natural Gas	0	*	*	*	*	*	*
Other.....	10	13	13	8	7	12	12
Total.....	216	237	254	250	260	237	217
Nitrogen Oxide							
Coal	107	119	99	96	96	67	57
Petroleum.....	3	2	3	4	3	5	4
Gas.....	1	5	4	3	4	2	2
Other.....	4	5	4	4	4	6	5
Total.....	115	132	110	108	107	79	68
Carbon Dioxide							
Coal	26,479	31,275	41,555	39,355	39,816	38,222	38,350
Petroleum.....	1,727	1,747	2,581	4,325	3,040	4,653	4,351
Gas.....	633	2,845	2,528	2,258	2,914	2,342	3,135
Geothermal	0	0	0	0	0	0	0
Other.....	144	144	93	211	875	908	1,008
Total.....	28,982	36,011	46,758	46,149	46,644	46,125	46,844

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Virginia									
Retail Sales (thousand megawatthours)									
Residential.....	28,130	33,472	37,541	37,325	40,358	40,877	42,503	38.7	40.3
Commercial	20,213	24,028	28,299	29,066	29,999	41,179	43,025	27.8	40.8
Industrial.....	16,399	18,554	20,619	19,702	19,521	19,282	19,734	22.6	18.7
Other	7,955	9,109	10,256	10,360	10,740	NA	NA	10.9	NA
Transportation.....	NA	NA	NA	NA	NA	172	162	NA	.2
Total.....	72,696	85,162	96,715	96,453	100,619	101,510	105,424	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	2,039	2,626	2,823	2,908	3,144	3,174	3,397	46.5	50.1
Commercial	1,225	1,458	1,598	1,701	1,762	2,365	2,530	27.9	37.3
Industrial.....	700	772	804	820	807	815	843	16.0	12.4
Other	422	474	518	535	553	NA	NA	9.6	NA
Transportation.....	NA	NA	NA	NA	NA	9	10	NA	.1
Total.....	4,386	5,331	5,742	5,964	6,265	6,364	6,780	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.25	7.84	7.52	7.79	7.79	7.76	7.99	NA	NA
Commercial	6.06	6.07	5.65	5.85	5.87	5.74	5.88	NA	NA
Industrial.....	4.27	4.16	3.90	4.16	4.13	4.23	4.27	NA	NA
Other	5.31	5.21	5.05	5.16	5.14	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	5.46	6.25	NA	NA
Total.....	6.03	6.26	5.94	6.18	6.23	6.27	6.43	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Virginia								
Number of Entities.....	5	16	1	13	1	1	1	38
Number of Retail Customers.....	2,772,483	159,236	1	428,547	1	1,931	NA	3,362,199
Retail Sales (thousand megawatthours)	91,315	4,793	9	9,120	161	26	NA	105,424
Percentage of Retail Sales	86.62	4.55	.01	8.65	.15	.02	NA	100.00
Revenue from Retail Sales (million dollars)	5,691	269	*	811	6	2	1	6,780
Percentage of Revenue.....	83.94	3.97	*	11.95	.09	.02	.02	100.00
Average Retail Price (cents/kWh).....	6.23	5.61	2.75	8.89	3.90	6.44	4.35	6.43

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Washington		
NERC Region(s).....		WECC
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	27,573	11
Electric Utilities	23,878	4
Independent Power Producers & Combined Heat and Power	3,695	25
Net Generation (megawatthours).....	102,165,052	14
Electric Utilities	83,500,909	12
Independent Power Producers & Combined Heat and Power	18,664,144	17
Emissions (thousand metric tons)		
Sulfur Dioxide	15	43
Nitrogen Oxide.....	21	39
Carbon Dioxide.....	15,011	39
Sulfur Dioxide (lbs/MWh).....	.3	49
Nitrogen Oxide (lbs/MWh).....	.5	49
Carbon Dioxide (lbs/MWh).....	324	49
Total Retail Sales (megawatthours).....	79,981,608	16
Full Service Provider Sales (megawatthours).....	79,606,088	18
Deregulated Sales (megawatthours).....	375,520	17
Direct Use (megawatthours).....	1,394,018	26
Average Retail Price (cents/kWh).....	5.80	42

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Washington			
1. Grand Coulee.....	Hydroelectric	U S Bureau of Reclamation	7,079
2. Chief Joseph.....	Hydroelectric	USCE-North Pacific Division	2,456
3. TransAlta Centralia Generation	Petroleum,Gas,Coal	TransAlta Centralia Gen LLC	1,661
4. Rocky Reach	Hydroelectric	PUD No 1 of Chelan County	1,279
5. Columbia Generating Station.....	Nuclear	Energy Northwest	1,122
6. Boundary	Hydroelectric	Seattle City of	1,050
7. Wanapum.....	Hydroelectric	PUD No 2 of Grant County	984
8. Priest Rapids.....	Hydroelectric	PUD No 2 of Grant County	932
9. Wells.....	Hydroelectric	PUD No 1 of Douglas County	840
10. Little Goose	Hydroelectric	USCE-North Pacific Division	810

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Washington						
1. Puget Sound Energy Inc.....	Investor-Owned	19,876,790	10,007,812	8,519,061	1,349,917	0
2. Seattle City of.....	Public	9,020,525	2,950,653	4,834,363	1,193,778	41,731
3. PUD No 1 of Snohomish County.....	Public	6,151,711	3,129,705	2,179,217	842,789	0
4. Avista Corporation.....	Investor-Owned	5,136,865	2,288,471	2,033,208	815,186	0
5. Tacoma City of.....	Public	4,638,234	1,773,275	889,415	1,975,544	0
Total Sales, Top Five Providers.....		44,824,125	20,149,916	18,455,264	6,177,214	41,731
Percent of Total State Sales.....		56	62	65	32	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Washington									
Electric Utilities	24,173	24,277	23,840	24,055	24,141	24,216	23,878	98.5	86.6
Coal.....	1,310	1,340	0	0	0	0	0	5.3	.0
Petroleum.....	173	88	4	40	40	39	39	.7	.1
Natural Gas.....	0	0	245	277	303	310	378	.0	1.4
Dual Fired.....	590	590	710	803	843	843	807	2.4	2.9
Nuclear.....	1,100	1,107	1,112	1,108	1,108	1,108	1,122	4.5	4.1
Hydroelectric	20,640	20,795	21,360	21,367	21,392	21,408	21,010	84.1	76.2
Other Renewables.....	46	97	96	147	142	194	210	.2	.8
Pumped Storage.....	314	260	314	314	314	314	314	1.3	1.1
Independent Power Producers and Combined									
Heat and Power	373	977	2,226	2,591	2,971	3,473	3,695	1.5	13.4
Coal.....	16	2	1,355	1,407	1,407	1,407	1,407	.1	5.1
Petroleum.....	22	0	0	0	0	0	0	.1	.0
Natural Gas.....	113	435	373	428	938	938	1,227	.5	4.4
Dual Fired.....	0	301	154	299	177	672	602	.0	2.2
Hydroelectric	88	97	101	86	72	48	59	.4	.2
Other Renewables.....	132	142	240	370	378	408	399	.5	1.4
Total Electric Industry	24,545	25,254	26,065	26,645	27,112	27,689	27,573	100.0	100.0
Coal.....	1,326	1,342	1,355	1,407	1,407	1,407	1,407	5.4	5.1
Petroleum.....	196	88	4	40	40	39	39	.8	.1
Natural Gas.....	113	436	619	705	1,240	1,247	1,605	.5	5.8
Dual Fired.....	590	891	864	1,102	1,020	1,515	1,409	2.4	5.1
Nuclear.....	1,100	1,107	1,112	1,108	1,108	1,108	1,122	4.5	4.1
Hydroelectric	20,729	20,892	21,461	21,453	21,464	21,457	21,070	84.5	76.4
Other Renewables.....	178	239	336	517	519	602	609	.7	2.2
Pumped Storage.....	314	260	314	314	314	314	314	1.3	1.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Washington									
Electric Utilities	100,478,861	95,671,478	96,227,037	67,683,216	88,568,483	82,205,391	83,500,909	98.4	81.7
Coal.....	7,351,520	5,877,093	3,284,393	0	0	0	0	7.2	.0
Petroleum.....	14,290	8,711	226,078	179,120	6,172	7,851	13,112	*	*
Natural Gas.....	15,501	554,405	3,749,232	4,378,072	1,084,370	2,256,386	2,286,578	*	2.2
Nuclear.....	5,742,027	6,941,878	8,605,232	8,250,429	9,048,475	7,614,708	8,981,583	5.6	8.8
Hydroelectric.....	87,022,217	82,028,297	79,999,928	54,517,234	77,833,286	71,540,502	71,393,131	85.3	69.9
Other Renewables.....	333,306	261,094	362,174	358,361	600,712	789,237	836,323	.3	.8
Pumped Storage.....	0	0	0	0	-4,532	-3,293	-9,818	.0	*
Independent Power Producers and Combined									
Heat and Power	1,592,672	6,526,108	12,009,843	15,365,453	14,196,564	17,889,300	18,664,143	1.6	18.3
Coal.....	38,759	25,852	6,160,171	9,082,358	8,660,804	11,089,796	10,413,457	*	10.2
Petroleum.....	28,691	170,204	258,434	141,239	67,130	58,741	68,241	*	.1
Natural Gas.....	272,557	4,335,199	3,950,994	4,996,173	3,634,941	4,826,219	6,193,097	.3	6.1
Other Gases.....	8,460	550,836	247,892	0	312,638	303,188	256,823	*	.3
Hydroelectric.....	444,491	471,856	262,961	216,661	333,378	216,281	182,569	.4	.2
Other Renewables.....	795,964	971,982	1,129,391	929,022	1,187,673	1,395,075	1,549,956	.8	1.5
Other.....	3,750	179	0	0	0	0	0	*	.0
Total Electric Industry	102,071,533	102,197,586	108,236,880	83,048,669	102,765,048	100,094,691	102,165,052	100.0	100.0
Coal.....	7,390,279	5,902,945	9,444,564	9,082,358	8,660,804	11,089,796	10,413,457	7.2	10.2
Petroleum.....	42,981	178,915	484,512	320,359	73,302	66,592	81,353	*	.1
Natural Gas.....	288,058	4,889,604	7,700,226	9,374,245	4,719,311	7,082,605	8,479,675	.3	8.3
Other Gases.....	8,460	550,836	247,892	0	312,638	303,188	256,823	*	.3
Nuclear.....	5,742,027	6,941,878	8,605,232	8,250,429	9,048,475	7,614,708	8,981,583	5.6	8.8
Hydroelectric.....	87,466,708	82,500,153	80,262,889	54,733,895	78,166,664	71,756,783	71,575,700	85.7	70.1
Other Renewables.....	1,129,270	1,233,076	1,491,565	1,287,383	1,788,385	2,184,312	2,386,279	1.1	2.3
Pumped Storage.....	0	0	0	0	-4,532	-3,293	-9,818	.0	*
Other.....	3,750	179	0	0	0	0	0	*	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Washington							
Coal (cents per million Btu).....	157.6	143.6	168.8	0.0	W	W	W
Average heat value (Btu per pound).....	8,135	8,267	8,310	0	8,052	8,052	8,151
Average sulfur Content (percent).....	.7	.7	.7	.0	1.0	1.0	.9
Petroleum (cents per million Btu).....	511.0	484.9	664.0	.0	W	W	W
Average heat value (Btu per gallon).....	140,948	139,954	140,000	0	146,121	145,438	139,331
Average sulfur Content (percent).....	.3	.3	.3	.0	.3	.3	.9
Natural Gas (cents per million Btu).....	.0	438.2	.0	.0	354.2	415.3	456.8
Average heat value (Btu per cubic foot).....	0	1,050	0	0	1,026	1,029	1,029

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Washington							
Sulfur Dioxide							
Coal	57	45	77	64	18	8	7
Petroleum.....	2	1	1	1	*	1	1
Natural Gas	0	*	*	*	*	*	*
Other.....	9	8	7	7	7	7	7
Total.....	68	54	86	72	26	16	15
Nitrogen Oxide							
Coal	50	40	19	18	15	19	14
Petroleum.....	*	*	1	*	*	*	*
Gas.....	1	6	9	10	5	4	3
Other.....	3	3	3	3	2	3	3
Total.....	55	49	31	31	22	26	21
Carbon Dioxide							
Coal	7,565	6,465	10,242	9,455	9,534	11,209	10,523
Petroleum.....	228	237	581	417	233	254	294
Gas.....	648	3,380	4,789	5,469	2,596	3,425	4,074
Geothermal.....	0	0	0	0	0	0	0
Other.....	3	37	38	35	110	96	119
Total.....	8,445	10,119	15,651	15,375	12,473	14,984	15,011

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Washington									
Retail Sales (thousand megawatthours)									
Residential.....	28,809	30,147	33,036	31,608	32,066	31,872	32,455	31.6	40.6
Commercial	17,683	20,401	23,991	23,841	24,310	28,039	28,226	19.4	35.3
Industrial	40,712	34,276	35,410	19,339	15,792	18,180	19,259	44.7	24.1
Other	3,842	3,528	4,075	3,707	3,237	NA	NA	4.2	NA
Transportation.....	NA	NA	NA	NA	NA	42	42	NA	.1
Total.....	91,046	88,353	96,511	78,495	75,404	78,134	79,982	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,266	1,497	1,695	1,802	2,018	2,010	2,069	40.9	44.6
Commercial	734	982	1,166	1,298	1,485	1,701	1,742	23.7	37.6
Industrial	972	1,014	1,170	919	770	866	825	31.4	17.8
Other	120	132	149	174	160	NA	NA	3.9	NA
Transportation.....	NA	NA	NA	NA	NA	3	3	NA	.1
Total.....	3,092	3,626	4,180	4,193	4,433	4,580	4,638	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	4.39	4.97	5.13	5.70	6.29	6.31	6.37	NA	NA
Commercial	4.15	4.81	4.86	5.45	6.11	6.07	6.17	NA	NA
Industrial	2.39	2.96	3.30	4.75	4.88	4.76	4.28	NA	NA
Other	3.13	3.75	3.65	4.69	4.94	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	6.45	6.44	NA	NA
Total.....	3.40	4.10	4.33	5.34	5.88	5.86	5.80	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Washington								
Number of Entities.....	4	40	1	18	NA	3	2	68
Number of Retail Customers.....	1,328,354	1,480,104	12	149,504	NA	5	NA	2,957,979
Retail Sales (thousand megawatthours)	29,678	43,460	2,819	3,649	NA	376	NA	79,982
Percentage of Retail Sales	37.11	54.34	3.53	4.56	NA	.47	NA	100.00
Revenue from Retail Sales (million dollars)	1,859	2,455	102	205	NA	16	1	4,638
Percentage of Revenue.....	40.08	52.92	2.20	4.42	NA	.35	.03	100.00
Average Retail Price (cents/kWh).....	6.26	5.65	3.61	5.62	NA	4.28	.37	5.80

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. 2004 Summary Statistics

Item	Value	U.S. Rank
West Virginia		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	16,402	24
Electric Utilities	10,206	22
Independent Power Producers & Combined Heat and Power	6,196	18
Net Generation (megawatthours).....	89,749,562	19
Electric Utilities	59,083,917	17
Independent Power Producers & Combined Heat and Power	30,665,645	11
Emissions (thousand metric tons)		
Sulfur Dioxide	448	8
Nitrogen Oxide	160	6
Carbon Dioxide	82,164	8
Sulfur Dioxide (lbs/MWh).....	11.0	4
Nitrogen Oxide (lbs/MWh).....	3.9	9
Carbon Dioxide (lbs/MWh).....	2,018	9
Total Retail Sales (megawatthours).....	28,918,612	35
Full Service Provider Sales (megawatthours).....	28,918,612	35
Direct Use (megawatthours).....	1,818,157	23
Average Retail Price (cents/kWh).....	5.13	48

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
West Virginia			
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	Petroleum,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. Ceredo Generating Station.....	Gas	Orion Power Operating Services	685
10. Kammer	Petroleum,Coal	Ohio Power Co	600

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
West Virginia						
1. Appalachian Power Co.....	Investor-Owned	13,255,062	5,464,726	3,575,744	4,214,592	0
2. Monongahela Power Co.....	Investor-Owned	10,437,054	3,221,103	2,434,770	4,776,745	4,436
3. Potomac Edison Co.....	Investor-Owned	2,953,218	1,467,884	709,698	775,636	0
4. Wheeling Power Co.....	Investor-Owned	2,009,471	430,744	414,363	1,164,364	0
5. Harrison Rural Elec Assn, Inc.....	Cooperative	59,134	50,126	9,008	0	0
Total Sales, Top Five Providers.....		28,713,939	10,634,583	7,143,583	10,931,337	4,436
Percent of Total State Sales		99	99	99	100	100

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
West Virginia									
Electric Utilities	14,435	14,451	14,475	10,188	10,166	10,164	10,206	96.8	62.2
Coal.....	14,315	14,381	14,413	10,126	10,108	10,108	10,108	96.0	61.6
Petroleum.....	12	12	12	12	12	12	12	.1	.1
Hydroelectric.....	108	58	50	50	46	44	86	.7	.5
Independent Power Producers and Combined									
Heat and Power	484	560	615	5,630	6,014	5,960	6,196	3.2	37.8
Coal.....	307	385	306	4,577	4,608	4,608	4,615	2.1	28.1
Natural Gas.....	0	0	26	765	764	765	990	.0	6.0
Other Gases.....	25	25	93	95	95	95	95	.2	.6
Dual Fired.....	11	11	0	0	292	292	292	.1	1.8
Hydroelectric.....	140	140	189	193	189	134	138	.9	.8
Other Renewables.....	0	0	0	0	66	66	66	.0	.4
Total Electric Industry	14,918	15,011	15,090	15,817	16,180	16,124	16,402	100.0	100.0
Coal.....	14,622	14,765	14,718	14,703	14,716	14,716	14,723	98.0	89.8
Petroleum.....	12	12	12	12	12	12	12	.1	.1
Natural Gas.....	0	0	26	764	764	764	990	.0	6.0
Other Gases.....	25	25	93	95	95	95	95	.2	.6
Dual Fired.....	11	11	0	0	292	292	292	.1	1.8
Hydroelectric.....	247	198	240	243	235	179	224	1.7	1.4
Other Renewables.....	0	0	0	0	66	66	66	.0	.4

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
West Virginia									
Electric Utilities	77,363,692	77,322,168	89,708,609	51,608,803	63,341,620	64,056,696	59,083,917	97.3	65.8
Coal.....	76,635,718	76,690,297	89,060,210	51,110,900	62,801,799	63,499,194	58,508,159	96.3	65.2
Petroleum.....	274,419	197,097	254,014	256,951	278,679	210,060	231,515	.3	.3
Natural Gas.....	18,506	40,323	41,941	3,654	3,396	3,998	3,166	*	*
Hydroelectric.....	435,049	394,451	338,012	210,961	235,958	322,664	326,253	.5	.4
Other Renewables.....	0	0	14,432	26,337	21,788	20,780	14,824	.0	*
Independent Power Producers and Combined									
Heat and Power	2,175,852	3,215,259	3,156,567	30,227,922	31,420,132	30,654,858	30,665,645	2.7	34.2
Coal.....	1,007,648	2,023,922	2,142,099	29,103,504	30,149,517	28,969,789	29,080,683	1.3	32.4
Petroleum.....	51,256	15,681	8,739	21,725	18,908	37,837	36,100	.1	*
Natural Gas.....	71,557	172,551	97,578	272,211	237,745	273,839	249,602	.1	.3
Other Gases.....	174,182	204,663	95,064	89,500	174,598	169,782	146,043	.2	.2
Hydroelectric.....	860,002	798,228	812,891	740,982	829,778	1,033,367	992,026	1.1	1.1
Other Renewables.....	0	0	0	0	9,586	170,242	161,191	.0	.2
Other.....	11,207	214	196	0	0	0	0	*	.0
Total Electric Industry	79,539,544	80,537,427	92,865,176	81,836,725	94,761,751	94,711,554	89,749,562	100.0	100.0
Coal.....	77,643,366	78,714,219	91,202,309	80,214,404	92,951,316	92,468,983	87,588,842	97.6	97.6
Petroleum.....	325,675	212,778	262,753	278,676	297,587	247,897	267,615	.4	.3
Natural Gas.....	90,063	212,874	139,519	275,865	241,141	277,837	252,768	.1	.3
Other Gases.....	174,182	204,663	95,064	89,500	174,598	169,782	146,043	.2	.2
Hydroelectric.....	1,295,051	1,192,679	1,150,903	951,943	1,065,736	1,356,031	1,318,279	1.6	1.5
Other Renewables.....	0	0	14,432	26,337	31,374	191,022	176,015	.0	.2
Other.....	11,207	214	196	0	0	0	0	*	.0

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
West Virginia							
Coal (cents per million Btu)	147.2	127.3	120.4	125.0	120.6	124.6	135.1
Average heat value (Btu per pound).....	12,452	12,418	12,281	12,085	12,117	12,166	12,061
Average sulfur Content (percent).....	1.9	2.0	1.4	1.2	1.7	1.7	1.8
Petroleum (cents per million Btu).....	572.4	438.9	721.3	665.7	543.1	724.6	784.8
Average heat value (Btu per gallon).....	139,295	138,989	139,324	137,214	139,276	140,526	140,943
Average sulfur Content (percent).....	.1	.1	.1	.1	.2	.2	.1
Natural Gas (cents per million Btu)	513.3	357.6	498.1	646.5	385.4	632.7	633.0
Average heat value (Btu per cubic foot)	1,000	1,000	1,000	1,021	1,036	1,024	1,028

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
West Virginia							
Sulfur Dioxide							
Coal	876	755	556	476	479	507	447
Petroleum.....	1	*	1	*	1	*	*
Natural Gas	0	0	0	0	*	0	0
Other.....	0	0	*	0	0	*	*
Total.....	878	755	557	477	480	508	448
Nitrogen Oxide							
Coal	305	275	246	197	213	193	159
Petroleum.....	1	*	*	*	*	*	*
Gas	*	1	1	1	1	*	*
Other.....	0	0	*	0	0	*	*
Total.....	306	276	247	198	214	194	160
Carbon Dioxide							
Coal	71,416	72,986	84,259	74,701	86,080	85,056	81,346
Petroleum.....	346	208	239	178	212	189	222
Gas	169	512	445	495	353	416	583
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	13	14	13
Total.....	71,931	73,706	84,943	75,374	86,657	85,676	82,164

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
West Virginia									
Retail Sales (thousand megawatthours)									
Residential.....	7,578	9,166	9,738	9,828	10,444	10,473	10,756	32.8	37.2
Commercial	4,991	5,852	6,796	6,786	7,039	7,136	7,217	21.6	25.0
Industrial.....	10,469	10,867	11,083	10,978	10,902	10,687	10,942	45.3	37.8
Other	94	92	76	78	78	NA	NA	.4	NA
Transportation.....	NA	NA	NA	NA	NA	0	4	NA	.0
Total.....	23,132	25,977	27,693	27,669	28,463	28,297	28,919	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	447	596	610	616	651	654	670	40.8	45.2
Commercial	267	343	371	369	381	389	394	24.4	26.6
Industrial.....	373	438	417	410	415	408	419	34.1	28.3
Other	8	9	8	8	8	NA	NA	.7	NA
Total.....	1,095	1,386	1,405	1,403	1,455	1,450	1,483	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	5.90	6.50	6.26	6.26	6.23	6.24	6.23	NA	NA
Commercial	5.36	5.86	5.46	5.44	5.41	5.45	5.46	NA	NA
Industrial.....	3.56	4.03	3.76	3.74	3.81	3.81	3.83	NA	NA
Other	8.19	9.36	9.88	10.36	10.01	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	.00	5.70	NA	NA
Total.....	4.73	5.33	5.07	5.07	5.11	5.13	5.13	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
West Virginia								
Number of Entities.....	11	2	NA	3	NA	NA	NA	16
Number of Retail Customers.....	968,058	3,524	NA	9,438	NA	NA	NA	981,020
Retail Sales (thousand megawatthours)	28,751	70	NA	98	NA	NA	NA	28,919
Percentage of Retail Sales	99.42	.24	NA	.34	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,469	5	NA	9	NA	NA	NA	1,483
Percentage of Revenue.....	99.07	.31	NA	.62	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.11	6.49	NA	9.45	NA	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. 2004 Summary Statistics

Item	Value	U.S. Rank
Wisconsin		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	14,734	25
Electric Utilities	12,404	19
Independent Power Producers & Combined Heat and Power	2,330	33
Net Generation (megawatthours).....	60,444,933	23
Electric Utilities	56,142,364	18
Independent Power Producers & Combined Heat and Power	4,302,569	37
Emissions (thousand metric tons)		
Sulfur Dioxide	223	17
Nitrogen Oxide	89	16
Carbon Dioxide	49,382	19
Sulfur Dioxide (lbs/MWh).....	8.1	11
Nitrogen Oxide (lbs/MWh).....	3.2	16
Carbon Dioxide (lbs/MWh).....	1,801	14
Total Retail Sales (megawatthours).....	67,975,709	21
Full Service Provider Sales (megawatthours).....	67,975,709	20
Direct Use (megawatthours).....	2,758,806	17
Average Retail Price (cents/kWh).....	6.88	27

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Wisconsin			
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	1,093
4. Point Beach	Petroleum,Nuclear	Wisconsin Electric Power Co	1,041
5. Edgewater.....	Petroleum,Other,Coal	Wisconsin Power & Light Co	817
6. Riverside Energy Center	Petroleum,Gas	Rock River Energy LLC	598
7. Kewaunee	Nuclear	Wisconsin Public Service Corp	560
8. Weston	Petroleum,Gas,Coal	Wisconsin Public Service Corp	554
9. RockGen Energy Center	Petroleum,Gas	RockGen Energy LLC	466
10. Pulliam	Gas,Coal	Wisconsin Public Service Corp	464

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Wisconsin						
1. Wisconsin Electric Power Co	Investor-Owned	25,059,024	7,718,692	8,446,480	8,893,852	0
2. Wisconsin Public Service Corp.....	Investor-Owned	10,474,755	2,934,104	3,521,481	4,019,170	0
3. Wisconsin Power & Light Co.....	Investor-Owned	10,222,953	3,302,449	2,234,761	4,685,743	0
4. Northern States Power Co.....	Investor-Owned	5,778,996	1,790,007	1,100,221	2,888,768	0
5. Madison Gas & Electric Co.....	Investor-Owned	3,129,648	785,538	1,154,084	1,190,026	0
Total Sales, Top Five Providers.....		54,665,376	16,530,790	16,457,027	21,677,559	0
Percent of Total State Sales		80	78	85	79	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Wisconsin									
Electric Utilities	10,558	11,536	12,212	12,248	12,511	12,568	12,404	95.9	84.2
Coal	7,120	7,204	7,184	7,170	7,186	7,123	6,856	64.7	46.5
Petroleum	784	796	921	908	985	618	726	7.1	4.9
Natural Gas	104	69	280	340	340	417	290	.9	2.0
Dual Fired	493	1,482	1,786	1,798	1,998	2,382	2,431	4.5	16.5
Nuclear	1,509	1,453	1,510	1,510	1,510	1,565	1,586	13.7	10.8
Hydroelectric	443	427	460	450	425	427	431	4.0	2.9
Other Renewables	106	106	71	72	66	37	84	1.0	.6
Independent Power Producers and Combined									
Heat and Power	451	583	1,381	1,855	1,726	1,741	2,330	4.1	15.8
Coal	315	408	434	323	313	316	277	2.9	1.9
Petroleum	5	3	5	11	3	3	3	*	*
Natural Gas	23	21	126	291	185	189	447	.2	3.0
Dual Fired	12	34	675	971	951	956	1,298	.1	8.8
Hydroelectric	46	53	51	66	68	50	50	.4	.3
Other Renewables	50	66	91	173	183	204	233	.5	1.6
Other	0	0	0	21	21	21	21	.0	.1
Total Electric Industry	11,009	12,119	13,594	14,103	14,237	14,309	14,734	100.0	100.0
Coal	7,435	7,612	7,618	7,493	7,500	7,439	7,133	67.5	48.4
Petroleum	789	798	926	919	989	621	730	7.2	5.0
Natural Gas	127	90	406	631	525	606	737	1.2	5.0
Dual Fired	505	1,516	2,462	2,769	2,949	3,338	3,729	4.6	25.3
Nuclear	1,509	1,453	1,510	1,510	1,510	1,565	1,586	13.7	10.8
Hydroelectric	489	480	511	516	494	478	482	4.4	3.3
Other Renewables	156	170	161	245	250	241	317	1.4	2.2
Other	0	0	0	21	21	21	21	.0	.1

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Wisconsin									
Electric Utilities	45,550,958	51,012,390	55,665,471	54,959,426	54,773,666	56,068,698	56,142,364	95.4	92.9
Coal.....	32,144,557	36,863,872	41,057,919	40,185,649	38,583,501	40,579,973	40,981,609	67.3	67.8
Petroleum.....	47,444	147,493	191,091	170,443	162,990	185,625	494,535	.1	.8
Natural Gas.....	169,378	648,912	891,998	868,225	973,287	1,131,999	711,519	.4	1.2
Nuclear.....	11,225,913	10,969,606	11,512,078	11,507,078	12,448,813	12,215,463	11,887,849	23.5	19.7
Hydroelectric.....	1,791,037	2,097,101	1,744,201	1,887,555	2,282,883	1,623,369	1,748,442	3.7	2.9
Other Renewables.....	172,629	285,406	262,984	340,476	322,192	332,269	318,410	.4	.5
Pumped Storage.....	0	0	5,200	0	0	0	0	.0	.0
Independent Power Producers and Combined									
Heat and Power	2,217,899	2,910,741	3,978,946	3,804,005	3,657,772	4,053,726	4,302,569	4.6	7.1
Coal.....	1,024,384	1,229,562	1,245,024	1,067,807	1,223,983	1,137,243	1,159,287	2.1	1.9
Petroleum.....	132,013	237,671	256,346	277,340	259,688	287,162	257,040	.3	.4
Natural Gas.....	177,826	359,692	1,345,477	1,365,740	1,103,026	1,346,392	1,683,392	.4	2.8
Hydroelectric.....	223,375	281,371	241,433	168,689	232,134	219,926	232,234	.5	.4
Other Renewables.....	660,301	801,861	890,666	924,429	838,941	1,034,221	950,566	1.4	1.6
Other.....	0	584	0	0	0	28,782	20,050	.0	*
Total Electric Industry	47,768,857	53,923,131	59,644,417	58,763,431	58,431,438	60,122,425	60,444,933	100.0	100.0
Coal.....	33,168,941	38,093,434	42,302,943	41,253,456	39,807,484	41,717,216	42,140,896	69.4	69.7
Petroleum.....	179,457	385,164	447,437	447,783	422,678	472,787	751,575	.4	1.2
Natural Gas.....	347,204	1,008,604	2,237,475	2,233,965	2,076,313	2,478,391	2,394,911	.7	4.0
Nuclear.....	11,225,913	10,969,606	11,512,078	11,507,078	12,448,813	12,215,463	11,887,849	23.5	19.7
Hydroelectric.....	2,014,412	2,378,472	1,985,634	2,056,244	2,515,017	1,843,295	1,980,676	4.2	3.3
Other Renewables.....	832,930	1,087,267	1,153,650	1,264,905	1,161,133	1,366,490	1,268,976	1.7	2.1
Pumped Storage.....	0	0	5,200	0	0	0	0	.0	.0
Other.....	0	584	0	0	0	28,782	20,050	.0	*

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Wisconsin							
Coal (cents per million Btu).....	135.8	113.5	101.7	104.6	112.2	W	W
Average heat value (Btu per pound).....	9,642	9,351	9,165	9,503	9,753	9,006	9,030
Average sulfur Content (percent).....	.8	.5	.4	.4	.4	.4	.4
Petroleum (cents per million Btu).....	526.1	176.5	87.8	145.9	W	W	W
Average heat value (Btu per gallon).....	139,202	95,886	74,441	139,167	137,686	134,343	135,093
Average sulfur Content (percent).....	.4	3.7	5.2	4.9	5.2	5.3	5.4
Natural Gas (cents per million Btu).....	292.7	220.7	444.5	472.6	353.7	581.8	639.3
Average heat value (Btu per cubic foot).....	1,007	1,009	1,008	1,014	983	1,002	1,002

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Wisconsin							
Sulfur Dioxide							
Coal	293	211	227	216	222	215	195
Petroleum.....	8	17	15	18	20	9	21
Natural Gas	0	0	*	*	*	*	*
Other.....	17	8	10	9	4	9	7
Total.....	318	236	252	243	246	232	223
Nitrogen Oxide							
Coal	181	188	108	104	94	87	82
Petroleum.....	1	1	1	2	1	2	3
Gas.....	1	3	2	2	2	2	2
Other.....	5	3	4	4	3	3	3
Total.....	188	196	115	111	100	94	89
Carbon Dioxide							
Coal	35,293	40,550	46,995	46,252	46,190	45,549	46,344
Petroleum.....	531	749	858	932	929	932	997
Gas.....	537	1,227	1,768	1,756	1,546	1,753	1,903
Geothermal	0	0	0	0	0	0	0
Other.....	61	*	0	0	164	176	139
Total.....	36,422	42,527	49,621	48,940	48,829	48,410	49,382

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Wisconsin									
Retail Sales (thousand megawatthours)									
Residential.....	16,385	18,635	19,929	20,418	21,575	21,364	21,192	33.3	31.2
Commercial	12,698	14,893	18,321	18,678	19,144	20,056	19,349	25.8	28.5
Industrial.....	19,405	23,690	26,162	25,370	25,534	25,821	27,435	39.4	40.4
Other	710	749	734	752	746	NA	NA	1.4	NA
Total.....	49,198	57,967	65,146	65,218	66,999	67,241	67,976	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,087	1,298	1,502	1,612	1,765	1,853	1,922	41.2	41.1
Commercial	733	861	1,104	1,185	1,253	1,397	1,401	27.8	30.0
Industrial.....	774	896	1,057	1,107	1,131	1,217	1,353	29.3	28.9
Other	46	51	54	58	60	NA	NA	1.7	NA
Total.....	2,641	3,106	3,717	3,962	4,209	4,468	4,677	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	6.63	6.97	7.53	7.89	8.18	8.67	9.07	NA	NA
Commercial	5.78	5.78	6.03	6.34	6.54	6.97	7.24	NA	NA
Industrial.....	3.99	3.78	4.04	4.36	4.43	4.71	4.93	NA	NA
Other	6.47	6.85	7.40	7.70	8.08	NA	NA	NA	NA
Total.....	5.37	5.36	5.71	6.07	6.28	6.64	6.88	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Wisconsin								
Number of Entities.....	12	82	NA	24	7	NA	NA	125
Number of Retail Customers.....	2,295,585	260,057	NA	241,190	8	NA	NA	2,796,840
Retail Sales (thousand megawatthours)	57,029	7,598	NA	3,279	70	NA	NA	67,976
Percentage of Retail Sales	83.90	11.18	NA	4.82	.10	NA	NA	100.00
Revenue from Retail Sales (million dollars)	3,955	434	NA	285	3	NA	NA	4,677
Percentage of Revenue.....	84.56	9.28	NA	6.09	.06	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.93	5.71	NA	8.69	3.74	NA	NA	6.88

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. 2004 Summary Statistics

Item	Value	U.S. Rank
Wyoming		
NERC Region(s).....		WECC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,558	37
Electric Utilities	6,086	30
Independent Power Producers & Combined Heat and Power	473	45
Net Generation (megawatthours).....	44,807,604	32
Electric Utilities	43,059,537	24
Independent Power Producers & Combined Heat and Power	1,748,067	42
Emissions (thousand metric tons)		
Sulfur Dioxide	85	28
Nitrogen Oxide.....	87	18
Carbon Dioxide.....	45,451	22
Sulfur Dioxide (lbs/MWh).....	4.2	28
Nitrogen Oxide (lbs/MWh).....	4.3	5
Carbon Dioxide (lbs/MWh).....	2,236	3
Total Retail Sales (megawatthours).....	13,539,513	40
Full Service Provider Sales (megawatthours).....	13,539,513	40
Direct Use (megawatthours).....	662,293	33
Average Retail Price (cents/kWh).....	5	49

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Wyoming			
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.....	Hydroelectric	U S Bureau of Reclamation	67
10. Seminoe.....	Hydroelectric	U S Bureau of Reclamation	52

See footnotes at end of tables.

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

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Wyoming						
1. PacifiCorp.....	Investor-Owned	7,786,030	906,174	1,287,954	5,591,902	0
2. Powder River Energy Corp.....	Cooperative	1,917,664	158,476	811,317	947,871	0
3. Cheyenne Light Fuel & Power Co.....	Investor-Owned	864,891	221,093	342,046	301,752	0
4. High Plains Power, Inc.....	Cooperative	792,802	120,154	59,091	613,557	0
5. Lower Valley Energy Inc.....	Cooperative	554,149	310,325	233,551	10,273	0
Total Sales, Top Five Providers.....		11,915,536	1,716,222	2,733,959	7,465,355	0
Percent of Total State Sales.....		88	76	81	95	0

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Wyoming									
Electric Utilities	5,809	5,970	6,048	6,052	6,122	6,088	6,086	98.3	92.8
Coal.....	5,525	5,662	5,710	5,710	5,692	5,692	5,692	93.5	86.8
Petroleum.....	15	15	0	5	5	5	5	.3	.1
Natural Gas.....	0	0	34	34	119	85	80	.0	1.2
Hydroelectric.....	269	294	298	297	300	300	303	4.6	4.6
Other Renewables.....	0	0	6	6	6	6	6	.0	.1
Independent Power Producers and Combined									
Heat and Power	100	91	183	271	227	474	473	1.7	7.2
Coal.....	28	28	28	30	30	100	100	.5	1.5
Petroleum.....	1	0	4	7	4	4	2	*	*
Natural Gas.....	48	50	51	99	58	92	80	.8	1.2
Other Gases.....	5	3	0	0	0	0	0	.1	.0
Dual Fired.....	0	0	0	0	0	0	1	.0	*
Other Renewables.....	8	0	90	135	135	279	279	.1	4.3
Other.....	11	11	11	0	0	0	12	.2	.2
Total Electric Industry	5,909	6,062	6,231	6,323	6,348	6,562	6,558	100.0	100.0
Coal.....	5,553	5,690	5,738	5,740	5,722	5,792	5,792	94.0	88.3
Petroleum.....	16	15	4	12	8	8	6	.3	.1
Natural Gas.....	48	50	85	133	177	177	160	.8	2.4
Other Gases.....	5	3	0	0	0	0	0	.1	.0
Dual Fired.....	0	0	0	0	0	0	1	.0	*
Hydroelectric.....	269	294	298	297	300	300	303	4.6	4.6
Other Renewables.....	8	0	96	141	141	285	285	.1	4.3
Other.....	11	11	11	0	0	0	12	.2	.2

See footnotes at end of tables.

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

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Wyoming									
Electric Utilities	39,378,154	39,683,722	44,585,709	43,764,015	42,532,420	42,261,405	43,059,537	98.5	96.1
Coal.....	38,681,220	38,804,539	43,355,361	42,560,578	41,685,278	41,490,825	42,372,775	96.8	94.6
Petroleum.....	45,561	67,673	35,159	33,744	38,686	41,567	43,450	.1	.1
Natural Gas.....	6,760	13,007	184,154	274,383	205,791	119,729	35,207	*	.1
Hydroelectric.....	644,613	798,503	1,011,035	879,111	583,615	593,555	593,147	1.6	1.3
Other Renewables.....	0	0	0	16,199	19,050	15,729	14,958	.0	*
Independent Power Producers and Combined									
Heat and Power	596,811	567,887	908,571	1,012,923	1,251,419	1,365,197	1,748,067	1.5	3.9
Coal.....	227,247	191,836	218,747	228,732	237,883	850,627	972,943	.6	2.2
Petroleum.....	3,644	2,632	3,007	2,352	1,418	3,354	2,441	*	*
Natural Gas.....	261,442	309,443	354,982	317,459	507,289	160,467	51,681	.7	.1
Other Gases.....	8,642	9,230	9,353	7,511	0	0	12,746	*	*
Other Renewables.....	50,440	0	245,911	348,960	428,280	350,749	601,557	.1	1.3
Other.....	45,396	54,746	76,571	107,909	76,549	0	106,700	.1	.2
Total Electric Industry	39,974,965	40,251,609	45,494,280	44,776,938	43,783,839	43,626,602	44,807,604	100.0	100.0
Coal.....	38,908,467	38,996,375	43,574,108	42,789,310	41,923,161	42,341,452	43,345,718	97.3	96.7
Petroleum.....	49,205	70,305	38,166	36,096	40,104	44,921	45,891	.1	.1
Natural Gas.....	268,202	322,450	539,136	591,842	713,080	280,196	86,888	.7	.2
Other Gases.....	8,642	9,230	9,353	7,511	0	0	12,746	*	*
Hydroelectric.....	644,613	798,503	1,011,035	879,111	583,615	593,555	593,147	1.6	1.3
Other Renewables.....	50,440	0	245,911	365,159	447,330	366,478	616,515	.1	1.4
Other.....	45,396	54,746	76,571	107,909	76,549	0	106,700	.1	.2

See footnotes at end of tables.

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

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Wyoming							
Coal (cents per million Btu).....	83.6	81.8	77.9	76.7	78.5	82.3	86.5
Average heat value (Btu per pound).....	8,811	8,738	8,803	8,884	8,802	8,826	8,826
Average sulfur Content (percent).....	.5	.5	.5	.5	.5	.5	.5
Petroleum (cents per million Btu).....	526.8	444.6	724.3	707.2	553.0	714.4	949.8
Average heat value (Btu per gallon).....	138,849	139,283	139,220	146,929	142,302	139,593	139,338
Average sulfur Content (percent).....	.3	.3	.3	.3	.3	.3	.3
Natural Gas (cents per million Btu).....	314.9	797.8	375.8	381.8	W	W	341.5
Average heat value (Btu per cubic foot).....	1,035	1,043	1,044	967	944	997	1,060

See footnotes at end of tables.

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

Emission Type	1990	1995	2000	2001	2002	2003	2004
Wyoming							
Sulfur Dioxide							
Coal	98	85	81	85	80	84	84
Petroleum.....	*	*	*	*	*	*	*
Natural Gas	0	0	0	0	0	0	0
Other.....	1	*	0	0	0	0	0
Total.....	99	85	81	85	80	84	85
Nitrogen Oxide							
Coal	185	189	86	82	81	81	87
Petroleum.....	*	*	*	*	*	*	*
Gas.....	1	1	1	1	1	*	*
Other.....	*	0	0	0	0	0	*
Total.....	185	189	87	83	82	81	87
Carbon Dioxide							
Coal	40,304	41,019	45,550	45,469	44,024	45,106	45,210
Petroleum.....	64	98	77	68	40	39	77
Gas.....	204	229	346	396	426	174	163
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	40,572	41,345	45,972	45,933	44,490	45,320	45,451

See footnotes at end of tables.

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

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Wyoming									
Retail Sales (thousand megawatthours)									
Residential.....	1,720	1,939	2,103	2,146	2,232	2,286	2,262	14.6	16.7
Commercial	2,176	2,330	2,748	2,915	3,027	3,282	3,393	18.5	25.1
Industrial.....	7,729	6,817	7,321	7,700	7,453	7,685	7,884	65.7	58.2
Other	144	113	196	189	162	NA	NA	1.2	NA
Total.....	11,769	11,199	12,368	12,950	12,874	13,254	13,540	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	103	118	137	145	156	161	163	20.8	24.2
Commercial	112	119	145	158	173	189	203	22.6	30.1
Industrial.....	268	239	246	264	264	281	308	54.1	45.7
Other	11	8	10	10	10	NA	NA	2.2	NA
Total.....	495	484	537	577	602	630	674	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	5.97	6.09	6.50	6.77	6.97	7.04	7.21	NA	NA
Commercial	5.17	5.11	5.28	5.41	5.70	5.74	5.98	NA	NA
Industrial.....	3.47	3.50	3.36	3.43	3.55	3.65	3.91	NA	NA
Other	7.90	7.15	4.88	5.07	5.93	NA	NA	NA	NA
Total.....	4.21	4.32	4.34	4.46	4.68	4.75	4.98	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Wyoming								
Number of Entities.....	5	13	1	16	NA	NA	NA	35
Number of Retail Customers.....	179,638	30,424	6	85,995	NA	NA	NA	296,063
Retail Sales (thousand megawatthours)	9,068	521	28	3,923	NA	NA	NA	13,540
Percentage of Retail Sales	66.97	3.85	.20	28.98	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	446	32	*	196	NA	NA	NA	674
Percentage of Revenue.....	66.09	4.76	.05	29.10	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.91	6.16	1.24	5.00	NA	NA	NA	4.98

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. 2004 Summary Statistics

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

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

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

Table 9 Notes: Data are shown for All Sectors. **Full Service Providers** sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as Independent Power Producers or other full service providers) prior to delivery. **Other Providers** sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Co-operatives" 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, 2004

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	30,648	9	137,354,771	8	409	10	136	9	80,165	10
Alaska	Gas	1,851	48	6,526,717	48	5	48	10	47	4,712	46
Arizona	Coal	24,304	15	104,564,143	13	55	32	78	21	50,577	18
Arkansas	Coal	13,537	27	51,927,632	27	87	27	42	34	27,061	32
California	Gas	58,306	2	194,780,355	4	22	41	54	31	60,664	14
Colorado	Coal	11,086	31	47,869,492	29	59	31	66	28	39,630	24
Connecticut	Nuclear	7,928	35	32,633,408	38	7	47	10	46	10,262	40
Delaware	Coal	3,428	44	7,855,553	46	35	37	13	42	6,531	45
District of Columbia	Petroleum	806	51	36,487	51	*	50	*	51	56	50
Florida	Gas	50,653	3	218,117,928	2	443	9	241	2	130,089	2
Georgia	Coal	35,338	7	126,812,715	10	584	4	116	12	81,496	9
Hawaii	Petroleum	2,311	47	11,410,403	44	24	39	13	41	8,912	42
Idaho	Hydro	2,986	45	10,863,039	45	7	46	3	48	1,292	49
Illinois	Coal	42,032	5	191,957,778	5	385	11	143	8	100,325	6
Indiana	Coal	26,734	13	127,770,396	9	797	3	215	4	118,901	5
Iowa	Coal	10,872	32	43,248,189	34	135	21	79	20	40,043	23
Kansas	Coal	10,850	33	46,782,659	31	112	23	84	19	37,288	27
Kentucky	Coal	19,627	20	94,529,947	18	469	6	150	7	87,269	7
Louisiana	Gas	26,465	14	98,172,309	15	132	22	88	17	58,114	16
Maine	Gas	4,189	43	19,098,885	43	20	42	11	44	7,043	44
Maryland	Coal	12,499	28	52,052,770	26	276	14	62	30	31,799	29
Massachusetts	Gas	14,003	26	47,500,483	30	76	29	29	38	26,113	33
Michigan	Coal	30,446	10	118,487,269	12	351	12	121	10	77,206	11
Minnesota	Coal	11,551	30	52,364,127	25	108	24	90	15	37,605	26
Mississippi	Coal	17,019	23	43,662,613	33	90	26	49	32	25,295	35
Missouri	Coal	20,162	19	87,632,910	20	270	15	117	11	75,933	12
Montana	Coal	5,132	40	26,788,768	41	23	40	37	36	19,088	38
Nebraska	Coal	6,738	36	32,008,709	39	68	30	44	33	20,698	37
Nevada	Coal	8,670	34	37,667,435	36	50	34	41	35	25,345	34
New Hampshire	Nuclear	4,271	42	23,875,787	42	52	33	10	45	8,172	43
New Jersey	Nuclear	18,165	22	55,882,342	24	49	35	30	37	21,299	36
New Mexico	Coal	6,330	38	32,940,361	37	35	36	68	27	30,906	30
New York	Nuclear	37,843	6	137,964,794	7	236	16	77	23	57,625	17
North Carolina	Coal	27,109	12	126,329,957	11	456	7	115	13	72,590	13
North Dakota	Coal	4,774	41	29,936,106	40	137	20	72	24	30,397	31
Ohio	Coal	34,050	8	148,345,905	6	1050	1	254	1	123,128	3
Oklahoma	Coal	19,397	21	60,729,560	22	102	25	78	22	46,580	21
Oregon	Hydro	12,093	29	51,381,278	28	14	44	11	43	9,117	41
Pennsylvania	Coal	45,138	4	214,658,501	3	931	2	184	5	121,566	4
Rhode Island	Gas	1,742	49	4,939,420	50	1	49	1	49	2,105	48
South Carolina	Nuclear	22,197	17	97,939,929	16	221	18	65	29	39,430	25
South Dakota	Coal	2,659	46	7,510,214	47	14	45	16	40	3,834	47
Tennessee	Coal	20,942	18	97,594,542	17	318	13	105	14	58,491	15
Texas	Gas	101,103	1	390,299,132	1	575	5	226	3	255,651	1
Utah	Coal	6,190	39	38,211,977	35	34	38	69	25	35,167	28
Vermont	Nuclear	998	50	5,470,379	49	*	51	*	50	22	51
Virginia	Coal	22,506	16	78,900,040	21	217	19	68	26	46,844	20
Washington	Hydro	27,575	11	102,165,052	14	15	43	21	39	15,011	39
West Virginia	Coal	16,402	24	89,749,562	19	448	8	160	6	82,164	8
Wisconsin	Coal	14,735	25	60,444,933	23	223	17	89	16	49,382	19
Wyoming	Coal	6,559	37	44,807,604	32	85	28	87	18	45,451	22

Table A1. Selected Electric Industry Summary Statistics by State, 2004 (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	86,870,519	14	86,870,519	14	0	0	6,487,857	5	6.08	40
Alaska	5,788,484	50	5,788,484	49	0	0	1,079,118	30	10.99	6
Arizona	66,933,251	22	66,933,251	21	0	0	374,187	39	7.45	18
Arkansas	43,672,360	30	43,672,360	29	0	0	2,395,564	20	5.67	46
California	252,764,015	2	176,854,463	3	75,909,552	1	15,199,327	3	11.45	3
Colorado	46,723,841	27	46,723,841	26	0	0	495,780	35	6.95	24
Connecticut	32,214,610	33	31,470,175	33	744,435	16	1,540,638	24	10.26	10
Delaware	11,761,153	43	10,751,187	42	1,009,966	13	564,017	34	7.53	16
District of Columbia	11,414,847	44	7,760,518	47	3,654,329	11	384	50	7.47	17
Florida	218,584,494	3	218,584,494	2	0	0	6,910,150	4	8.16	13
Georgia	129,465,784	8	129,465,784	5	0	0	5,562,700	6	6.58	29
Hawaii	10,731,520	46	10,731,520	43	0	0	480,616	36	15.70	1
Idaho	21,808,674	38	21,767,415	38	41,259	19	711,211	31	4.97	50
Illinois	139,253,956	7	112,186,918	8	27,067,038	4	4,280,370	10	6.80	28
Indiana	103,094,263	12	103,094,263	10	0	0	4,760,620	7	5.58	47
Iowa	40,902,773	31	40,902,773	31	0	0	1,352,242	27	6.40	34
Kansas	37,126,540	32	37,126,540	32	0	0	62,166	49	6.37	35
Kentucky	86,521,156	15	86,521,156	15	0	0	188,482	43	4.63	51
Louisiana	79,737,112	18	79,737,112	17	0	0	22,071,042	2	7.13	20
Maine	12,367,668	42	592,783	51	11,774,885	10	4,372,401	9	9.69	11
Maryland	66,891,700	23	53,239,637	24	13,652,063	7	1,198,292	28	7.15	19
Massachusetts	56,142,019	25	43,591,199	30	12,550,820	9	2,455,540	18	10.77	8
Michigan	106,606,040	10	92,614,753	13	13,991,287	6	2,922,287	16	6.94	25
Minnesota	63,340,315	24	63,340,315	22	0	0	2,931,271	15	6.24	36
Mississippi	46,032,538	28	46,032,538	27	0	0	2,385,239	21	7.00	22
Missouri	74,054,296	20	74,054,296	19	0	0	305,146	41	6.07	41
Montana	12,956,782	41	10,084,134	45	2,872,648	12	155,392	45	6.40	33
Nebraska	25,875,930	36	25,875,930	36	0	0	72,112	46	5.70	43
Nevada	31,312,306	34	31,310,598	34	1,708	21	232,503	42	8.56	12
New Hampshire	10,973,309	45	10,863,434	41	109,875	18	456,052	37	11.37	4
New Jersey	77,593,167	19	59,019,571	23	18,573,596	5	2,406,897	19	10.29	9
New Mexico	19,845,735	39	19,845,735	39	0	0	445,845	38	7.10	21
New York	145,081,709	5	96,350,591	12	48,731,118	2	4,221,296	11	12.55	2
North Carolina	125,656,807	9	125,656,807	7	0	0	4,095,759	12	6.97	23
North Dakota	10,516,400	47	10,516,400	44	0	0	166,732	44	5.69	45
Ohio	154,221,114	4	126,339,309	6	27,881,805	3	1,487,894	25	6.89	26
Oklahoma	50,942,042	26	50,942,042	25	0	0	1,153,762	29	6.50	30
Oregon	45,636,448	29	44,791,028	28	845,420	14	691,393	32	6.21	38
Pennsylvania	143,501,493	6	130,848,050	4	12,653,443	8	4,483,086	8	8.00	14
Rhode Island	7,887,575	49	7,043,336	48	844,239	15	65,036	48	10.96	7
South Carolina	79,908,340	17	79,908,340	16	0	0	2,043,966	22	6.22	37
South Dakota	9,213,844	48	9,213,844	46	0	0	0	0	6.44	31
Tennessee	99,660,665	13	99,660,665	11	0	0	3,392,795	13	6.14	39
Texas	320,614,840	1	320,614,840	1	0	0	41,749,468	1	7.95	15
Utah	24,511,704	37	24,511,704	37	0	0	360,581	40	5.69	44
Vermont	5,663,772	51	5,663,772	50	0	0	70,982	47	11.02	5
Virginia	105,424,173	11	105,398,266	9	25,907	20	2,998,532	14	6.43	32
Washington	79,981,608	16	79,606,088	18	375,520	17	1,394,018	26	5.80	42
West Virginia	28,918,612	35	28,918,612	35	0	0	1,818,157	23	5.13	48
Wisconsin	67,975,709	21	67,975,709	20	0	0	2,758,806	17	6.88	27
Wyoming	13,539,513	40	13,539,513	40	0	0	662,293	33	4.98	49