

State Electricity Profiles 2002

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Quality

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Preface

The State Electricity Profiles 2002 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 utilities 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 deregulated 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"

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"

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"

Table 8

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

Table 9

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Alabama		
NERC Region(s).....		SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	26,586	12
Electric Utilities	23,429	8
Independent Power Producers & Combined Heat and Power	3,157	23
Net Generation (megawatthours).....	132,920,670	8
Electric Utilities	123,739,223	4
Independent Power Producers & Combined Heat and Power	9,181,447	22
Emissions (thousand short tons)		
Sulfur Dioxide	467	10
Nitrogen Oxide	178	9
Carbon Dioxide	83,993	9
Sulfur Dioxide/sq. mile.....	9	13
Nitrogen Oxide/sq. mile.....	3	13
Carbon Dioxide/sq. mile.....	1,655	15
Utility and ESP Retail Electricity Sales (megawatthours).....	83,067,078	15
Utility Retail Electricity Sales (megawatthours)	83,067,078	15
Direct Use (megawatthours).....	5,866,005	7
Average Retail Price (cents/kWh).....	5.71	41

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Alabama			
1. Browns Ferry	Nuclear	Tennessee Valley Authority	3,291
2. James H Miller Jr	Petroleum, Gas, Coal	Alabama Power Co	2,686
3. Barry	Petroleum, Gas, Coal	Alabama Power Co	2,520
4. E C Gaston	Petroleum, Coal	Alabama Power Co	1,906
5. Joseph M Farley	Nuclear	Alabama Power Co	1,675
6. Widows Creek	Petroleum, Coal	Tennessee Valley Authority	1,608
7. Colbert	Gas, Petroleum, Coal	Tennessee Valley Authority	1,565
8. Gorgas	Petroleum, Coal	Alabama Power Co	1,288
9. Greene County	Petroleum, Gas, Coal	Alabama Power Co	1,257
10. Tenaska Lindsay Hill	Petroleum, Gas	Tenaska Alabama Partners LP	858

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Alabama					
A. Alabama Power Company	52,073,190	17,402,645	13,356,972	21,108,226	205,347
B. Tennessee Valley Authority	5,073,906	0	0	5,035,798	38,108
C. City of Huntsville	4,729,117	2,147,576	1,515,221	1,035,464	30,856
D. Decatur Utilities	1,440,271	378,010	298,700	755,537	8,024
E. City of Florence	1,168,312	624,194	390,433	142,259	11,426
Total	64,484,796	20,552,425	15,561,326	28,077,284	293,761
Percentage of Utility Sales	77.6	68.5	79.1	86.1	38.4

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Alabama							
Coal	11,579	11,286	11,246	-0.3	55.7	51.5	42.3
Petroleum	18	16	34	7.5	.1	.1	.1
Natural Gas	92	347	2,605	44.9	.4	1.6	9.8
Dual Fired	494	1,359	1,577	13.8	2.4	6.2	5.9
Nuclear	4,835	4,873	4,966	.3	23.2	22.2	18.7
Hydroelectric	2,955	2,959	3,002	.2	14.2	13.5	11.3
Total Electric Utilities	19,972	20,840	23,429	1.8	96.0	95.1	88.1
Coal	23	23	19	-2.3	.1	.1	.1
Petroleum	*	4	7	53.7	.0	.0	.0
Natural Gas	126	155	1,820	34.6	.6	.7	6.8
Other Gases	94	104	4	-30.0	.5	.5	.0
Dual Fired	0	61	765	NM	.0	.3	2.9
Other Renewables	583	723	543	-8	2.8	3.3	2.0
Total IPP's & Combined Heat and Power	826	1,070	3,157	16.1	4.0	4.9	11.9
Coal	11,602	11,309	11,265	-.3	55.8	51.6	42.4
Petroleum	18	20	41	9.7	.1	.1	.2
Natural Gas	218	502	4,425	39.7	1.0	2.3	16.6
Other Gases	94	104	4	-30.0	.5	.5	.0
Dual Fired	494	1,420	2,342	18.9	2.4	6.5	8.8
Nuclear	4,835	4,873	4,966	.3	23.2	22.2	18.7
Hydroelectric	2,955	2,959	3,002	.2	14.2	13.5	11.3
Other Renewables	583	723	543	-8	2.8	3.3	2.0
Total Electric Industry	20,798	21,910	26,586	2.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Alabama							
Coal	66,758,044	71,586,318	71,630,811	0.8	67.2	59.9	53.9
Petroleum	72,217	118,818	184,379	11.0	.1	.1	.1
Natural Gas	435,761	885,184	11,242,320	43.5	.4	.7	8.5
Nuclear	17,823,325	29,572,670	31,856,926	6.7	17.9	24.7	24.0
Hydroelectric	9,034,210	11,520,637	8,824,787	-.3	9.1	9.6	6.6
Total Electric Utilities	94,123,557	113,683,627	123,739,223	3.1	94.8	95.1	93.1
Coal	578,277	517,000	410,853	-3.7	.6	.4	.3
Petroleum	120,727	118,597	127,669	.6	.1	.1	.1
Natural Gas	825,217	1,224,434	4,661,745	21.2	.8	1.0	3.5
Other Gases	338,105	283,878	112,541	-11.5	.3	.2	.1
Other Renewables	3,351,114	3,344,408	3,750,350	1.3	3.4	2.8	2.8
Other	0	370,388	118,289	NM	.0	.3	.1
Total IPP's & Combined Heat and Power	5,213,440	5,858,704	9,181,447	6.5	5.2	4.9	6.9
Coal	67,336,321	72,103,318	72,041,664	.8	67.8	60.3	54.2
Petroleum	192,944	237,415	312,048	5.5	.2	.2	.2
Natural Gas	1,260,978	2,109,618	15,904,065	32.5	1.3	1.8	12.0
Other Gases	338,105	283,878	112,541	-11.5	.3	.2	.1
Nuclear	17,823,325	29,572,670	31,856,926	6.7	17.9	24.7	24.0
Hydroelectric	9,034,210	11,520,637	8,824,787	-.3	9.1	9.6	6.6
Other Renewables	3,351,114	3,344,408	3,750,350	1.3	3.4	2.8	2.8
Other	0	370,388	118,289	NM	.0	.3	.1
Total Electric Industry	99,336,997	119,542,331	132,920,670	3.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Alabama				
Coal (2002 cents per million Btu)	196.2	157.8	141.6	-3.5
Average heat value (Btu per pound)	12,092	11,584	11,245	-.8
Average sulfur Content(percent)	1.3	1.1	.9	-3.8
Petroleum (2002 cents per million Btu)	474.2	416.5	509.2	.8
Average heat value (Btu per gallon)	137,673	139,646	140,117	.2
Average sulfur Content(percent) .....	.0	.0	.1	NM
Gas (2002 cents per million Btu)	290.3	284.9	345.7	1.9
Average heat value (Btu per cubic foot)	1,016	1,031	1,027	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Alabama				
Sulfur Dioxide				
Coal	555	575	454	-2.2
Petroleum	*	1	1	15.6
Gas.....	*	*	*	.0
Other.....	9	9	12	3.5
Total	565	585	467	-2.1
Nitrogen Oxide				
Coal	238	212	163	-4.2
Petroleum	*	*	*	-5
Gas.....	12	12	10	-2.0
Other.....	2	3	5	7.7
Total	253	227	178	-3.9
Carbon Dioxide				
Coal	68,530	73,459	75,716	1.1
Petroleum	194	245	258	3.2
Gas.....	1,225	1,882	8,019	23.2
Total	69,949	75,585	83,993	2.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Alabama							
Retail Sales (thousand megawatthours)							
Residential.....	22,628	24,893	30,022	3.2	34.8	33.4	36.1
Commercial.....	11,254	16,397	19,666	6.4	17.3	22.0	23.7
Industrial	30,524	32,617	32,615	.7	46.9	43.8	39.3
Other	652	646	764	1.8	1.0	.9	.9
Total	65,058	74,554	83,067	2.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,720	1,725	2,138	2.4	41.9	42.3	45.1
Commercial.....	869	1,069	1,305	4.6	21.2	26.2	27.5
Industrial	1,475	1,242	1,244	-1.9	35.9	30.4	26.2
Other	43	43	57	3.3	1.0	1.0	1.2
Total	4,108	4,080	4,745	1.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.60	6.93	7.12	-.7	NA	NA	NA
Commercial.....	7.72	6.52	6.63	-1.7	NA	NA	NA
Industrial	4.83	3.81	3.82	-2.6	NA	NA	NA
Other	6.56	6.65	7.46	1.4	NA	NA	NA
Total	6.31	5.47	5.71	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Alabama						
Number of Entities.....	1	36	1	25	0	63
Number of Retail Customers.....	1,349,662	473,625	22	493,920	0	2,317,229
Retail Sales (thousand megawatthours).....	52,073	15,552	5,074	10,368	0	83,067
Percentage of Retail Sales.....	62.69	18.72	6.11	12.48	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	2,951	908	161	725	0	4,745
Percentage of Revenue.....	62.20	19.13	3.39	15.28	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.67	5.84	3.17	6.99	0	5.71

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Alaska		
NERC Region(s).....		--
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	2,006	48
Electric Utilities	1,740	40
Independent Power Producers & Combined Heat and Power	267	45
Net Generation (megawatthours)	6,767,325	48
Electric Utilities	5,471,990	42
Independent Power Producers & Combined Heat and Power	1,295,335	43
Emissions (thousand short tons)		
Sulfur Dioxide.....	4	48
Nitrogen Oxide.....	11	43
Carbon Dioxide.....	4,205	46
Sulfur Dioxide/sq. mile.....	0	50
Nitrogen Oxide/sq. mile.....	0	51
Carbon Dioxide/sq. mile.....	7	50
Utility and ESP Retail Electricity Sales (megawatthours).....	5,465,489	51
Utility Retail Electricity Sales (megawatthours)	5,465,489	50
Direct Use (megawatthours).....	1,022,952	25
Average Retail Price (cents/kWh).....	10.46	7

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Alaska			
1. Beluga	Gas	Chugach Electric Assn Inc	338
2. George M Sullivan Gen	Petroleum, Gas	Municipality of Anchorage	220
3. Bradley Lake.....	Hydro	Alaska Electric G & T Coop Inc	126
4. North Pole.....	Petroleum	Golden Valley Elec Assn Inc	96
5. Anchorage 1.....	Petroleum, Gas	Municipality of Anchorage	79
6. Snettisham.....	Hydro	Alaska Electric Light&Power Co	78
7. Central Production Fa.....	Gas	Phillips Alaska Inc	64
8. Bernice Lake.....	Gas	Chugach Electric Assn Inc	62
9. Lemon Creek	Petroleum	Alaska Electric Light&Power Co	58
10. Eklutna Hydro Project	Hydro	Municipality of Anchorage	44

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Alaska					
A. Chugach Electric Assn, Inc.....	1,141,106	534,869	560,934	40,577	4,726
B. Golden Valley Elec Assn, Inc.....	1,069,320	289,559	128,372	651,389	0
C. Anchorage Mun Light and Power.....	892,174	148,174	726,683	0	17,317
D. Matanuska Electric Assn, Inc.....	546,601	340,664	205,210	0	727
E. Homer Electric Assn, Inc	486,921	156,912	164,344	164,511	1,154
Total	4,136,122	1,470,178	1,785,543	856,477	23,924
Percentage of Utility Sales.....	76	76	80	79	12

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Alaska							
Coal	54	54	25	-8.1	2.7	2.6	1.2
Petroleum	501	537	522	.5	25.2	26.5	26.0
Natural Gas	497	489	526	.6	25.0	24.1	26.2
Dual Fired	308	308	270	-1.4	15.5	15.2	13.5
Hydroelectric	352	362	396	1.3	17.7	17.9	19.7
Other Renewables	*	*	0	NM	.0	.0	.0
Total Electric Utilities	1,711	1,750	1,740	.2	86.0	86.3	86.7
Coal	57	57	60	.7	2.8	2.8	3.0
Petroleum	63	83	55	-1.6	3.2	4.1	2.7
Natural Gas	100	101	151	4.7	5.0	5.0	7.5
Dual Fired	37	37	*	-41.5	1.9	1.8	.0
Other Renewables	21	0	0	NM	1.1	.0	.0
Total IPP's & Combined Heat and Power	278	278	267	-5	14.0	13.7	13.3
Coal	110	110	85	-2.8	5.5	5.4	4.2
Petroleum	564	620	577	.3	28.4	30.6	28.8
Natural Gas	596	590	677	1.4	30.0	29.1	33.8
Dual Fired	345	345	271	-2.7	17.4	17.0	13.5
Hydroelectric	352	362	396	1.3	17.7	17.9	19.7
Other Renewables	21	*	0	NM	1.1	.0	.0
Total Electric Industry	1,989	2,028	2,006	.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Alaska							
Coal	322,564	237,165	204,490	-4.9	5.6	3.9	3.0
Petroleum	458,542	740,721	875,153	7.4	8.0	12.0	12.9
Natural Gas	2,496,949	3,031,164	2,952,996	1.9	43.6	49.2	43.6
Hydroelectric	1,302,992	1,098,953	1,439,351	1.1	22.8	17.9	21.3
Total Electric Utilities	4,581,047	5,108,003	5,471,990	2.0	80.1	83.0	80.9
Coal	210,559	205,537	370,798	6.5	3.7	3.3	5.5
Petroleum	128,882	117,167	87,216	-4.2	2.3	1.9	1.3
Natural Gas	694,865	676,570	825,166	1.9	12.1	11.0	12.2
Other Renewables	105,926	47,569	12,155	-21.4	1.9	.8	.2
Total IPP's & Combined Heat and Power	1,140,231	1,046,843	1,295,335	1.4	19.9	17.0	19.1
Coal	533,123	442,702	575,288	.8	9.3	7.2	8.5
Petroleum	587,424	857,888	962,369	5.6	10.3	13.9	14.2
Natural Gas	3,191,814	3,707,734	3,778,162	1.9	55.8	60.2	55.8
Hydroelectric	1,302,992	1,098,953	1,439,351	1.1	22.8	17.9	21.3
Other Renewables	105,926	47,569	12,155	-21.4	1.9	.8	.2
Total Electric Industry	5,721,278	6,154,846	6,767,325	1.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Alaska				
Average heat value (Btu per pound).....	0	0	7,946	NM
Average heat value (Btu per gallon).....	0	0	144,536	NM
Gas (2002 cents per million Btu).....	139.7	178.8	227.1	5.5
Average heat value (Btu per cubic foot).....	999	1,000	1,018	.2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Alaska				
Sulfur Dioxide				
Coal	3	7	4	0.9
Petroleum	*	*	*	-6.4
Gas.....	0	0	0	NM
Other.....	*	*	0	NM
Total	4	7	4	.1
Nitrogen Oxide				
Coal	4	4	4	.2
Petroleum	*	1	1	10.7
Gas.....	5	6	6	1.0
Other.....	*	*	0	NM
Total	10	10	11	1.2
Carbon Dioxide				
Coal	862	897	890	.4
Petroleum	526	794	895	6.1
Gas.....	2,200	2,540	2,420	1.1
Total	3,588	4,231	4,205	1.8

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Alaska							
Retail Sales (thousand megawatthours)							
Residential.....	1,629	1,726	1,932	1.9	37.2	35.6	35.3
Commercial.....	2,062	2,181	2,238	.9	47.1	45.0	40.9
Industrial.....	501	756	1,088	9.0	11.4	15.6	19.9
Other.....	182	178	207	1.4	4.2	3.7	3.8
Total.....	4,375	4,841	5,465	2.5	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	202	203	233	1.6	41.0	40.5	40.7
Commercial.....	219	213	227	.4	44.5	42.5	39.7
Industrial.....	46	58	83	6.9	9.3	11.6	14.5
Other.....	26	27	29	1.3	5.3	5.4	5.1
Total.....	493	501	572	1.7	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.42	11.76	12.05	-.3	NA	NA	NA
Commercial.....	10.64	9.77	10.13	-.5	NA	NA	NA
Industrial.....	9.13	7.69	7.65	-1.9	NA	NA	NA
Other.....	14.22	15.16	14.04	-.1	NA	NA	NA
Total.....	11.28	10.35	10.46	-.8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Alaska						
Number of Entities.....	21	34	0	18	0	73
Number of Retail Customers.....	26,592	56,307	0	201,922	0	284,821
Retail Sales (thousand megawatthours).....	455	1,379	0	3,632	0	5,465
Percentage of Retail Sales.....	8.32	25.23	.00	66.45	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	59	136	0	378	0	572
Percentage of Revenue.....	10.26	23.71	.00	66.03	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	12.90	9.84	.00	10.40	0	10.46

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Arizona		
NERC Region(s).....		WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,442	19
Electric Utilities	15,699	15
Independent Power Producers & Combined Heat and Power	3,743	19
Net Generation (megawatthours).....	94,131,666	18
Electric Utilities	81,710,063	12
Independent Power Producers & Combined Heat and Power	12,421,603	19
Emissions (thousand short tons)		
Sulfur Dioxide	72	31
Nitrogen Oxide.....	88	25
Carbon Dioxide.....	49,298	19
Sulfur Dioxide/sq. mile.....	1	38
Nitrogen Oxide/sq. mile.....	1	38
Carbon Dioxide/sq. mile.....	434	38
Utility and ESP Retail Electricity Sales (megawatthours).....	62,600,737	23
Utility Retail Electricity Sales (megawatthours)	62,600,737	22
Direct Use (megawatthours).....	12,093	41
Average Retail Price (cents/kWh).....	7.21	16

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Arizona			
1. Palo Verde	Nuclear	Arizona Public Service Co	3,733
2. Navajo	Petroleum, Coal	Salt River Proj Ag I & P Dist	2,250
3. Glen Canyon Dam.....	Hydro	U S Bureau of Reclamation	1,296
4. Hoover Dam.....	Hydro	U S Bureau of Reclamation	1,040
5. Cholla	Gas, Petroleum, Coal	Arizona Public Service Co	995
6. Redhawk.....	Gas	Pinnacle West Energy	918
7. Springerville.....	Petroleum, Coal	Tucson Electric Power Co	800
8. Coronado	Petroleum, Coal	Salt River Proj Ag I & P Dist	785
9. Agua Fria	Petroleum, Other, Gas	Salt River Proj Ag I & P Dist	626
10. Desert Basin.....	Gas	Reliant Energy Desert Basin LP	598

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Arizona					
A. Arizona Public Service Company	23,361,755	10,443,820	10,589,065	2,224,922	103,948
B. Salt River Project.....	22,783,685	10,440,416	8,358,335	3,139,132	845,802
C. Tucson Electric Power Company.....	8,012,420	3,188,728	1,609,366	2,956,685	257,641
D. Morenci Water & Electric Co.....	1,575,877	10,021	13,637	1,552,219	0
E. Citizens Communications Co	1,323,612	639,559	387,074	77,407	219,572
Total	57,057,349	24,722,544	20,957,477	9,950,365	1,426,963
Percentage of Utility Sales.....	91	94	94	90	51

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arizona							
Coal	5,108	5,256	5,336	0.5	33.7	34.3	27.4
Petroleum	97	85	108	1.2	.6	.6	.6
Natural Gas	233	107	539	9.8	1.5	.7	2.8
Dual Fired	3,006	3,045	3,060	.2	19.9	19.9	15.7
Nuclear	3,810	3,778	3,733	-.2	25.2	24.7	19.2
Hydroelectric	2,781	2,893	2,919	.5	18.4	18.9	15.0
Other Renewables	0	*	5	NM	.0	.0	.0
Total Electric Utilities	15,034	15,164	15,699	.5	99.3	99.0	80.7
Coal	51	51	68	3.3	.3	.3	.3
Petroleum	5	5	4	-3.6	.0	.0	.0
Natural Gas	2	56	3,658	137.4	.0	.4	18.8
Dual Fired	48	45	13	-13.3	.3	.3	.1
Total IPP's & Combined Heat and Power	105	157	3,743	48.7	.7	1.0	19.3
Coal	5,159	5,307	5,404	.5	34.1	34.6	27.8
Petroleum	102	90	112	1.0	.7	.6	.6
Natural Gas	235	163	4,198	37.8	1.5	1.1	21.6
Dual Fired	3,054	3,090	3,073	.1	20.2	20.2	15.8
Nuclear	3,810	3,778	3,733	-.2	25.2	24.7	19.2
Hydroelectric	2,781	2,893	2,919	.5	18.4	18.9	15.0
Other Renewables	0	*	5	NM	.0	.0	.0
Total Electric Industry	15,140	15,321	19,442	2.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arizona							
Coal	37,020,817	34,219,281	37,957,468	0.3	54.1	43.4	40.3
Petroleum	59,875	60,927	51,061	-1.8	.1	.1	.1
Natural Gas	1,872,396	2,064,599	5,238,416	12.1	2.7	2.6	5.6
Nuclear	22,048,880	29,314,200	30,861,911	3.8	32.2	37.2	32.8
Hydroelectric	7,023,071	12,401,491	7,551,144	.8	10.3	15.7	8.0
Other Renewables	0	0	50,063	NM	.0	.0	.1
Total Electric Utilities	68,025,039	78,060,498	81,710,063	2.1	99.4	99.0	86.8
Coal	251,378	259,567	269,163	.8	.4	.3	.3
Petroleum	25,568	4,754	6,385	-14.3	.0	.0	.0
Natural Gas	64,153	419,212	12,054,599	78.9	.1	.5	12.8
Other Renewables	102,849	81,170	91,456	-1.3	.2	.1	.1
Total IPP's & Combined Heat and Power	443,947	764,703	12,421,603	44.8	.6	1.0	13.2
Coal	37,272,195	34,478,848	38,226,631	.3	54.4	43.7	40.6
Petroleum	85,443	65,681	57,446	-4.3	.1	.1	.1
Natural Gas	1,936,549	2,483,811	17,293,015	27.5	2.8	3.2	18.4
Nuclear	22,048,880	29,314,200	30,861,911	3.8	32.2	37.2	32.8
Hydroelectric	7,023,071	12,401,491	7,551,144	.8	10.3	15.7	8.0
Other Renewables	102,849	81,170	141,519	3.6	.2	.1	.2
Total Electric Industry	68,468,986	78,825,201	94,131,666	3.6	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arizona				
Coal (2002 cents per million Btu)	150.8	146.4	125.8	-2.0
Average heat value (Btu per pound).....	10,271	10,159	10,151	-.1
Average sulfur Content(percent) .....	.5	.5	.6	2.2
Petroleum (2002 cents per million Btu)	570.1	546.6	653.5	1.5
Average heat value (Btu per gallon).....	140,535	140,337	138,007	-.2
Average sulfur Content(percent) .....	.0	.0	.1	NM
Gas (2002 cents per million Btu).....	312.9	302.6	320.1	.3
Average heat value (Btu per cubic foot).....	1,027	1,014	1,018	-.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arizona				
Sulfur Dioxide				
Coal	132	134	71	-6.6
Petroleum	*	*	*	-24.6
Gas.....	0	0	*	NM
Other.....	*	*	0	NM
Total	133	135	72	-6.6
Nitrogen Oxide				
Coal	128	79	82	-4.9
Petroleum	*	*	0	NM
Gas.....	3	3	6	8.6
Other.....	*	*	*	-16.6
Total	131	82	88	-4.4
Carbon Dioxide				
Coal	38,857	36,953	40,624	.5
Petroleum	73	58	51	-3.8
Gas.....	1,266	1,591	8,623	23.8
Total	40,196	38,601	49,298	2.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arizona							
Retail Sales (thousand megawatthours)							
Residential.....	16,705	20,683	26,413	5.2	37.6	38.0	42.2
Commercial.....	14,813	17,788	22,371	4.7	33.4	32.7	35.7
Industrial.....	10,989	13,253	11,026	*	24.8	24.3	17.6
Other.....	1,901	2,732	2,791	4.4	4.3	5.0	4.5
Total.....	44,408	54,456	62,601	3.9	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,795	1,874	2,185	2.2	44.2	45.4	48.4
Commercial.....	1,435	1,432	1,629	1.4	35.3	34.7	36.1
Industrial.....	710	688	573	-2.3	17.5	16.6	12.7
Other.....	119	136	127	.7	2.9	3.3	2.8
Total.....	4,060	4,130	4,514	1.2	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.75	9.06	8.27	-2.9	NA	NA	NA
Commercial.....	9.69	8.05	7.28	-3.1	NA	NA	NA
Industrial.....	6.46	5.19	5.20	-2.4	NA	NA	NA
Other.....	6.28	4.98	4.56	-3.5	NA	NA	NA
Total.....	9.14	7.58	7.21	-2.6	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Arizona						
Number of Entities.....	5	27	3	10	0	45
Number of Retail Customers.....	1,336,955	848,059	20,146	146,603	0	2,351,763
Retail Sales (thousand megawatthours).....	34,286	24,927	1,274	2,114	0	62,601
Percentage of Retail Sales.....	54.77	39.82	2.04	3.38	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	2,690	1,602	40	182	0	4,514
Percentage of Revenue.....	59.59	35.49	.89	4.03	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.85	6.43	3.16	8.60	0	7.21

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Arkansas		
NERC Region(s).....		SPP/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	11,300	29
Electric Utilities	9,550	25
Independent Power Producers & Combined Heat and Power	1,750	31
Net Generation (megawatthours)	47,611,644	27
Electric Utilities	42,873,364	24
Independent Power Producers & Combined Heat and Power	4,738,280	31
Emissions (thousand short tons)		
Sulfur Dioxide	80	29
Nitrogen Oxide.....	45	35
Carbon Dioxide.....	29,057	32
Sulfur Dioxide/sq. mile.....	2	32
Nitrogen Oxide/sq. mile.....	1	37
Carbon Dioxide/sq. mile.....	558	30
Utility and ESP Retail Electricity Sales (megawatthours).....	42,449,558	30
Utility Retail Electricity Sales (megawatthours)	42,449,558	30
Direct Use (megawatthours).....	2,131,036	18
Average Retail Price (cents/kWh).....	5.61	42

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Arkansas			
1. Arkansas Nuclear One.....	Nuclear	Entergy Arkansas Inc	1,776
2. Independence	Petroleum, Coal	Entergy Arkansas Inc	1,657
3. White Bluff.....	Petroleum, Coal	Entergy Arkansas Inc	1,620
4. Robert E Ritchie.....	Gas	Entergy Arkansas Inc	878
5. Lake Catherine.....	Gas	Entergy Arkansas Inc	688
6. Hot Spring Energy Fac.....	Gas	Duke Energy Hot Spring LLC	652
7. Wrightsville Power Fa.....	Other, Gas	Wrightsville Power Fac LLC	568
8. Flint Creek	Petroleum, Coal	Southwestern Electric Power Co	480
9. Bull Shoals.....	Hydro	USCE-Little Rock District	391
10. Pine Bluff Energy Cen	Gas	Pine Bluff Energy LLC	198

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Arkansas					
A. Entergy Arkansas, Inc	19,599,834	7,049,328	5,221,073	7,074,241	255,192
B. Southwestern Electric Power Co.....	3,840,092	987,231	940,205	1,815,812	96,844
C. Mississippi Cnty Elec Coop Inc.....	3,031,672	56,098	18,476	2,955,389	1,709
D. Oklahoma Gas & Electric Co	2,587,316	684,492	705,086	1,079,651	118,087
E. First Electric Coop Corp.....	1,446,264	946,362	178,054	264,297	57,551
Total	30,505,178	9,723,511	7,062,894	13,189,390	529,383
Percentage of Utility Sales.....	72	63	76	78	72

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arkansas							
Coal	3,817	3,865	3,757	-0.2	37.8	38.3	33.2
Petroleum	204	206	18	-23.8	2.0	2.0	.2
Natural Gas	67	14	199	12.9	.7	.1	1.8
Dual Fired	2,564	2,582	2,386	-8	25.4	25.6	21.1
Nuclear	1,694	1,694	1,776	.5	16.8	16.8	15.7
Hydroelectric	1,326	1,327	1,415	.7	13.1	13.2	12.5
Total Electric Utilities	9,672	9,688	9,551	-1	95.7	96.1	84.5
Petroleum	3	3	0	NM	.0	.0	.0
Natural Gas	58	21	1,292	41.3	.6	.2	11.4
Dual Fired	35	35	156	18.1	.3	.3	1.4
Hydroelectric	1	1	1	-2.7	.0	.0	.0
Other Renewables	335	335	301	-1.2	3.3	3.3	2.7
Total IPP's & Combined Heat and Power	432	395	1,750	16.8	4.3	3.9	15.5
Coal	3,817	3,865	3,757	-2	37.8	38.3	33.2
Petroleum	207	209	18	-23.9	2.0	2.1	.2
Natural Gas	124	35	1,490	31.8	1.2	.3	13.2
Dual Fired	2,599	2,617	2,542	-2	25.7	26.0	22.5
Nuclear	1,694	1,694	1,776	.5	16.8	16.8	15.7
Hydroelectric	1,327	1,328	1,416	.7	13.1	13.2	12.5
Other Renewables	335	335	301	-1.2	3.3	3.3	2.7
Total Electric Industry	10,104	10,083	11,300	1.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arkansas							
Coal	18,025,615	22,760,970	22,986,650	2.7	44.5	50.4	48.3
Petroleum	65,624	66,622	136,134	8.4	.2	.1	.3
Natural Gas	1,928,399	2,242,628	1,755,867	-1.0	4.8	5.0	3.7
Nuclear	13,521,676	14,208,157	14,558,884	.8	33.4	31.4	30.6
Hydroelectric	4,507,758	3,511,260	3,435,829	-3.0	11.1	7.8	7.2
Total Electric Utilities	38,049,072	42,789,637	42,873,364	1.3	94.0	94.7	90.0
Coal	65,913	49,400	111,720	6.0	.2	.1	.2
Petroleum	7,502	7,282	23,572	13.6	.0	.0	.0
Natural Gas	774,862	756,356	2,847,091	15.6	1.9	1.7	6.0
Other Gases	0	265	0	NM	.0	.0	.0
Hydroelectric	1,534	4,444	0	NM	.0	.0	.0
Other Renewables	1,599,769	1,586,216	1,585,266	-1	4.0	3.5	3.3
Other	0	0	170,631	NM	.0	.0	.4
Total IPP's & Combined Heat and Power	2,449,580	2,403,962	4,738,280	7.6	6.0	5.3	10.0
Coal	18,091,528	22,810,370	23,098,370	2.8	44.7	50.5	48.5
Petroleum	73,126	73,904	159,706	9.1	.2	.2	.3
Natural Gas	2,703,261	2,998,984	4,602,958	6.1	6.7	6.6	9.7
Other Gases	0	265	0	NM	.0	.0	.0
Nuclear	13,521,676	14,208,157	14,558,884	.8	33.4	31.4	30.6
Hydroelectric	4,509,292	3,515,704	3,435,829	-3.0	11.1	7.8	7.2
Other Renewables	1,599,769	1,586,216	1,585,266	-1	4.0	3.5	3.3
Other	0	0	170,631	NM	.0	.0	.4
Total Electric Industry	40,498,652	45,193,599	47,611,644	1.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arkansas				
Coal (2002 cents per million Btu)	189.8	168.5	83.6	-8.7
Average heat value (Btu per pound)	8,665	8,707	8,694	*
Average sulfur Content(percent) .....	.3	.3	.3	-1.6
Petroleum (2002 cents per million Btu)	510.4	483.3	550.0	.8
Average heat value (Btu per gallon)	136,833	140,074	138,705	.1
Average sulfur Content(percent) .....	.0	.0	.4	NM
Gas (2002 cents per million Btu)	245.8	269.2	351.4	4.0
Average heat value (Btu per cubic foot)	1,029	1,029	1,019	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arkansas				
Sulfur Dioxide				
Coal	63	85	72	1.5
Petroleum	*	*	1	30.9
Gas.....	0	0	*	NM
Other.....	3	4	7	8.2
Total	66	90	80	2.1
Nitrogen Oxide				
Coal	67	41	40	-5.5
Petroleum	*	*	*	17.2
Gas.....	4	4	3	-1.0
Other.....	1	1	2	5.0
Total	72	47	45	-5.0
Carbon Dioxide				
Coal	20,491	25,488	26,358	2.8
Petroleum	67	66	163	10.4
Gas.....	1,877	1,974	2,535	3.4
Other.....	1	0	0	NM
Total	22,437	27,528	29,057	2.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arkansas							
Retail Sales (thousand megawatthours)							
Residential.....	11,762	12,990	15,527	3.1	37.1	35.2	36.6
Commercial.....	6,698	7,597	9,304	3.7	21.1	20.6	21.9
Industrial	12,609	15,632	16,887	3.3	39.8	42.4	39.8
Other	594	638	731	2.3	1.9	1.7	1.7
Total	31,663	36,858	42,450	3.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,084	1,041	1,126	.4	46.4	44.7	47.3
Commercial.....	525	529	528	.1	22.5	22.7	22.2
Industrial	681	714	678	*	29.1	30.7	28.5
Other	46	43	48	.4	2.0	1.9	2.0
Total	2,335	2,328	2,380	.2	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	9.21	8.02	7.25	-2.6	NA	NA	NA
Commercial.....	7.84	6.97	5.68	-3.5	NA	NA	NA
Industrial	5.40	4.57	4.01	-3.2	NA	NA	NA
Other	7.72	6.79	6.52	-1.9	NA	NA	NA
Total	7.38	6.32	5.61	-3.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Arkansas						
Number of Entities	4	15	0	17	0	36
Number of Retail Customers	818,661	161,076	0	411,154	0	1,390,891
Retail Sales (thousand megawatthours).....	26,161	5,452	0	10,836	0	42,450
Percentage of Retail Sales.....	61.63	12.84	.00	25.53	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	1,502	297	0	581	0	2,380
Percentage of Revenue.....	63.10	12.47	.00	24.43	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.74	5.44	.00	5.37	0	5.61

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
California		
NERC Region(s).....		WSCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	56,663	2
Electric Utilities	24,609	5
Independent Power Producers & Combined Heat and Power	32,054	4
Net Generation (megawatthours).....	184,210,030	5
Electric Utilities	74,588,271	15
Independent Power Producers & Combined Heat and Power	109,621,759	4
Emissions (thousand short tons)		
Sulfur Dioxide	48	37
Nitrogen Oxide	72	31
Carbon Dioxide	52,627	17
Sulfur Dioxide/sq. mile.....	0	46
Nitrogen Oxide/sq. mile.....	0	42
Carbon Dioxide/sq. mile.....	337	40
Utility and ESP Retail Electricity Sales (megawatthours).....	235,248,942	2
Utility Retail Electricity Sales (megawatthours)	171,531,228	3
ESP Retail Electricity Sales (megawatthours).....	63,717,714	1
Direct Use (megawatthours).....	29,270,234	2
Average Retail Price (cents/kWh).....	12.50	2

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
California			
1. Moss Landing Power Pl.....	Gas	Duke Energy North America LLC	2,680
2. Diablo Canyon.....	Nuclear	Pacific Gas & Electric Co	2,174
3. San Onofre	Nuclear	Southern California Edison Co	2,150
4. AES Alamitos LLC	Gas	AES Alamitos LLC	2,083
5. Pittsburg Power.....	Gas	Mirant Delta LLC	1,906
6. Haynes.....	Gas	Los Angeles City of	1,570
7. Ormond Beach.....	Gas	Reliant Energy Ormond Bch LLC	1,499
8. Castaic.....	Hydro	Los Angeles City of	1,495
9. AES Redondo Beach LLC.....	Gas	AES Redondo Beach LLC	1,310
10. Helms Pumped Storage.....	Hydro	Pacific Gas & Electric Co	1,212

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
California					
A. Southern California Edison Co	54,391,384	20,369,957	26,434,396	6,952,221	634,810
B. Pacific Gas and Electric Co	49,830,092	19,088,200	22,933,040	7,179,531	629,321
C. California DWR-Elec Power Fund	45,153,230	16,932,597	21,346,415	6,450,410	423,808
D. Los Angeles Dept of Wtr & Pwr.....	22,289,149	7,344,707	11,956,556	2,454,582	533,304
E. Sacramento Municipal Util Dist.....	9,505,300	4,093,714	631,710	4,699,565	80,311
Total	181,169,155	67,829,175	83,302,117	27,736,309	2,301,554
Percentage of Utility Sales.....	77	86	77	67	32

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
California							
Petroleum	558	590	184	-11.6	1.0	1.1	0.3
Natural Gas	18,022	18,731	1,572	-23.7	33.1	34.8	2.8
Dual Fired	6,258	4,945	4,494	-3.6	11.5	9.2	7.9
Nuclear	4,310	4,310	4,324	.0	7.9	8.0	7.6
Hydroelectric	13,448	13,537	13,770	.3	24.7	25.1	24.3
Other Renewables	1,716	1,597	265	-18.7	3.2	3.0	.5
Total Electric Utilities	44,313	43,709	24,609	-6.3	81.4	81.2	43.4
Coal	439	420	352	-2.4	.8	.8	.6
Petroleum	48	46	521	30.2	.1	.1	.9
Natural Gas	3,646	4,468	23,744	23.1	6.7	8.3	41.9
Other Gases	213	171	226	.7	.4	.3	.4
Dual Fired	956	631	2,034	8.7	1.8	1.2	3.6
Hydroelectric	593	588	323	-6.5	1.1	1.1	.6
Other Renewables	4,192	3,819	4,837	1.6	7.7	7.1	8.5
Other	9	9	17	7.8	.0	.0	.0
Total IPP's & Combined Heat and Power	10,095	10,152	32,054	13.7	18.6	18.8	56.6
Coal	439	420	352	-2.4	.8	.8	.6
Petroleum	607	636	705	1.7	1.1	1.2	1.2
Natural Gas	21,668	23,198	25,317	1.7	39.8	43.1	44.7
Other Gases	213	171	226	.7	.4	.3	.4
Dual Fired	7,215	5,576	6,527	-1.1	13.3	10.4	11.5
Nuclear	4,310	4,310	4,324	.0	7.9	8.0	7.6
Hydroelectric	14,041	14,125	14,094	.0	25.8	26.2	24.9
Other Renewables	5,908	5,416	5,102	-1.6	10.9	10.1	9.0
Other	9	9	17	7.8	.0	.0	.0
Total Electric Industry	54,408	53,861	56,663	.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
California							
Petroleum	2,007,674	141,872	43,933	-34.6	1.1	0.1	0.0
Natural Gas	46,499,103	36,300,778	8,808,012	-16.9	24.9	21.0	4.8
Nuclear	31,580,692	30,512,118	34,352,340	.9	16.9	17.7	18.6
Hydroelectric	38,264,443	39,797,042	29,995,647	-2.7	20.5	23.0	16.3
Other Renewables	7,430,151	5,431,253	1,388,339	-17.0	4.0	3.1	.8
Total Electric Utilities	125,782,063	112,183,063	74,588,271	-5.6	67.3	64.9	40.5
Coal	3,129,951	2,331,970	2,327,809	-3.2	1.7	1.3	1.3
Petroleum	1,594,009	1,950,319	1,917,133	2.1	.9	1.1	1.0
Natural Gas	33,145,067	34,701,286	80,816,032	10.4	17.7	20.1	43.9
Other Gases	3,097,462	2,984,277	1,240,053	-9.7	1.7	1.7	.7
Hydroelectric	2,511,007	2,271,408	903,984	-10.7	1.3	1.3	.5
Other Renewables	17,719,662	16,353,592	22,292,229	2.6	9.5	9.5	12.1
Other	11,423	21,680	124,520	30.4	.0	.0	.1
Total IPP's & Combined Heat and Power	61,208,582	60,614,532	109,621,759	6.7	32.7	35.1	59.5
Coal	3,129,951	2,331,970	2,327,809	-3.2	1.7	1.3	1.3
Petroleum	3,601,683	2,092,191	1,961,066	-6.5	1.9	1.2	1.1
Natural Gas	79,644,170	71,002,064	89,624,044	1.3	42.6	41.1	48.7
Other Gases	3,097,462	2,984,277	1,240,053	-9.7	1.7	1.7	.7
Nuclear	31,580,692	30,512,118	34,352,340	.9	16.9	17.7	18.6
Hydroelectric	40,775,450	42,068,450	30,899,631	-3.0	21.8	24.3	16.8
Other Renewables	25,149,813	21,784,845	23,680,568	-7	13.4	12.6	12.9
Other	11,423	21,680	124,520	30.4	.0	.0	.1
Total Electric Industry	186,990,645	172,797,595	184,210,030	-2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
California				
Coal (2002 cents per million Btu)	0.0	0.0	180.2	NM
Average heat value (Btu per pound)	0	0	11,868	NM
Average sulfur Content(percent) .....	.0	.0	.5	NM
Petroleum (2002 cents per million Btu)	261.7	.0	114.4	-8.8
Average heat value (Btu per gallon)	146,727	0	96,990	-4.5
Average sulfur Content(percent) .....	.3	.0	1.9	23.9
Gas (2002 cents per million Btu)	330.3	310.6	372.1	1.3
Average heat value (Btu per cubic foot)	1,030	1,019	1,019	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
California				
Sulfur Dioxide				
Coal	23	20	6	-13.9
Petroleum	16	25	42	11.1
Gas.....	*	*	*	.0
Other.....	1	1	1	3.0
Total	40	46	48	2.2
Nitrogen Oxide				
Coal	12	9	9	-3.4
Petroleum	5	6	8	5.6
Gas.....	61	46	44	-3.6
Other.....	10	10	11	.9
Total	89	70	72	-2.3
Carbon Dioxide				
Coal	3,365	2,330	2,600	-2.8
Petroleum	3,503	2,420	3,019	-1.6
Gas.....	44,487	39,565	46,901	.6
Other.....	103	99	106	.3
Total	51,459	44,414	52,627	.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
California							
Retail Sales (thousand megawatthours)							
Residential.....	67,359	73,086	78,556	1.7	32.0	32.1	33.4
Commercial.....	79,058	83,570	108,295	3.6	37.6	36.7	46.0
Industrial	56,189	62,017	41,124	-3.4	26.7	27.2	17.5
Other	7,894	9,203	7,274	-9	3.8	4.0	3.1
Total	210,500	227,876	235,249	1.2	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	8,481	8,638	10,136	2.0	37.3	38.6	34.5
Commercial.....	9,212	8,573	14,321	5.0	40.5	38.4	48.7
Industrial	4,590	4,431	4,454	-.3	20.2	19.8	15.1
Other	444	710	486	1.0	1.9	3.2	1.6
Total	22,726	22,352	29,398	2.9	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.59	11.82	12.90	.3	NA	NA	NA
Commercial.....	11.65	10.26	13.22	1.4	NA	NA	NA
Industrial	8.17	7.14	10.83	3.2	NA	NA	NA
Other	5.62	7.71	6.68	1.9	NA	NA	NA
Total	10.80	9.81	12.50	1.6	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
California						
Number of Entities.....	6	35	0	4	14	59
Number of Retail Customers.....	10,563,127	2,968,938	0	14,377	76,483	13,622,925
Retail Sales (thousand megawatthours).....	112,860	58,411	0	260	63,718	235,249
Percentage of Retail Sales.....	47.97	24.83	.00	.11	27.09	100.00
Revenue from Retail Sales (million 2002 dollars).....	18,821	5,210	0	22	5,345	29,398
Percentage of Revenue.....	64.02	17.72	.00	.08	18.18	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	16.68	8.92	.00	8.54	0	12.50

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Colorado		
NERC Region(s).....		WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	9,435	32
Electric Utilities	7,603	28
Independent Power Producers & Combined Heat and Power	1,833	30
Net Generation (megawatthours)	45,600,388	30
Electric Utilities	41,509,933	26
Independent Power Producers & Combined Heat and Power	4,090,455	34
Emissions (thousand short tons)		
Sulfur Dioxide	90	27
Nitrogen Oxide.....	79	28
Carbon Dioxide.....	44,590	23
Sulfur Dioxide/sq. mile.....	1	37
Nitrogen Oxide/sq. mile.....	1	39
Carbon Dioxide/sq. mile.....	430	39
Utility and ESP Retail Electricity Sales (megawatthours).....	45,936,696	27
Utility Retail Electricity Sales (megawatthours)	45,936,696	26
Direct Use (megawatthours).....	416,999	32
Average Retail Price (cents/kWh).....	6.00	34

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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. Pawnee	Gas, Coal	Public Service Co of Colorado	505
6. Rawhide	Petroleum, Gas, Coal	Platte River Power Authority	450
7. Hayden	Petroleum, Gas, Coal	Public Service Co of Colorado	446
8. Cabin Creek	Hydro	Public Service Co of Colorado	324
9. Ray D Nixon.....	Petroleum, Gas, Coal	Colorado Springs City of	268
10. Manchief Electric Gen.....	Gas	Manchief Power Co LLC	264

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Colorado					
A. Public Service Co of Colorado	25,814,418	8,128,867	12,396,124	5,011,832	277,595
B. Colorado Springs Utilities	4,293,863	1,274,181	1,376,755	1,179,479	463,448
C. Intermountain Rural Elec Assn	1,659,282	1,062,908	485,736	97,645	12,993
D. UtiliCorp United, Inc.....	1,643,020	542,896	604,326	410,067	85,731
E. Fort Collins Utilities	1,302,636	422,426	458,585	421,419	206
Total	34,713,219	11,431,278	15,321,526	7,120,442	839,973
Percentage of Utility Sales.....	76	74	83	67	60

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Colorado							
Coal	4,950	4,955	4,891	-0.1	71.0	65.8	51.8
Petroleum	141	141	162	1.5	2.0	1.9	1.7
Natural Gas	35	154	944	44.3	.5	2.0	10.0
Dual Fired	424	423	420	-1	6.1	5.6	4.5
Hydroelectric	1,098	1,178	1,162	.6	15.7	15.6	12.3
Other Renewables	0	0	24	NM	.0	.0	.3
Total Electric Utilities	6,648	6,850	7,603	1.5	95.3	91.0	80.6
Coal	33	33	40	2.4	.5	.4	.4
Petroleum	4	7	2	-6.5	.1	.1	.0
Natural Gas	227	565	1,426	22.6	3.3	7.5	15.1
Dual Fired	28	28	298	30.3	.4	.4	3.2
Hydroelectric	30	38	43	4.3	.4	.5	.5
Other Renewables	5	5	23	19.1	.1	.1	.2
Total IPP's & Combined Heat and Power	326	676	1,833	21.2	4.7	9.0	19.4
Coal	4,982	4,988	4,931	-1	71.4	66.3	52.3
Petroleum	146	148	164	1.3	2.1	2.0	1.7
Natural Gas	262	719	2,370	27.7	3.8	9.6	25.1
Dual Fired	452	452	718	5.3	6.5	6.0	7.6
Hydroelectric	1,128	1,215	1,206	.7	16.2	16.1	12.8
Other Renewables	5	5	47	29.2	.1	.1	.5
Total Electric Industry	6,974	7,526	9,435	3.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Colorado							
Coal	30,456,351	32,002,082	35,135,198	1.6	88.9	85.0	77.1
Petroleum	8,898	14,623	22,519	10.9	.0	.0	.0
Natural Gas	364,237	423,540	5,321,770	34.7	1.1	1.1	11.7
Other Gases	0	0	2,884	NM	.0	.0	.0
Hydroelectric	1,857,831	1,935,328	967,575	-7.0	5.4	5.1	2.1
Other Renewables	0	0	59,987	NM	.0	.0	.1
Total Electric Utilities	32,687,317	34,375,573	41,509,933	2.7	95.5	91.3	91.0
Coal	244,968	250,938	253,053	.4	.7	.7	.6
Petroleum	68	861	661	28.7	.0	.0	.0
Natural Gas	1,146,627	2,848,632	3,706,720	13.9	3.3	7.6	8.1
Hydroelectric	126,756	133,998	21,168	-18.0	.4	.4	.0
Other Renewables	34,449	32,558	108,853	13.6	.1	.1	.2
Total IPP's & Combined Heat and Power	1,552,867	3,266,988	4,090,455	11.4	4.5	8.7	9.0
Coal	30,701,319	32,253,020	35,388,251	1.6	89.7	85.7	77.6
Petroleum	8,966	15,484	23,180	11.1	.0	.0	.1
Natural Gas	1,510,864	3,272,172	9,028,490	22.0	4.4	8.7	19.8
Other Gases	0	0	2,884	NM	.0	.0	.0
Hydroelectric	1,984,587	2,069,326	988,743	-7.4	5.8	5.5	2.2
Other Renewables	34,449	32,558	168,840	19.3	.1	.1	.4
Total Electric Industry	34,240,184	37,642,561	45,600,388	3.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Colorado				
Coal (2002 cents per million Btu)	121.7	103.8	95.1	-2.7
Average heat value (Btu per pound).....	9,888	9,872	9,787	-.1
Average sulfur Content(percent) .....	.4	.4	.4	.5
Petroleum (2002 cents per million Btu)	393.3	.0	704.6	6.7
Average heat value (Btu per gallon).....	117,493	0	137,395	1.8
Average sulfur Content(percent)	6.0	.0	*	-46.9
Gas (2002 cents per million Btu).....	278.8	326.3	246.3	-1.4
Average heat value (Btu per cubic foot).....	1,012	995	1,019	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Colorado				
Sulfur Dioxide				
Coal	89	102	90	0.2
Petroleum	0	*	*	NM
Gas.....	0	*	*	NM
Other.....	*	*	0	NM
Total	89	102	90	.2
Nitrogen Oxide				
Coal	130	83	74	-6.1
Petroleum	0	0	0	NM
Gas.....	2	3	5	12.3
Other.....	*	*	*	1.2
Total	132	86	79	-5.6
Carbon Dioxide				
Coal	33,696	35,279	39,521	1.8
Petroleum	13	18	25	7.5
Gas.....	837	1,624	5,045	22.1
Total	34,546	36,921	44,590	2.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Colorado							
Retail Sales (thousand megawatthours)							
Residential.....	10,656	12,261	15,425	4.2	32.3	32.2	33.6
Commercial.....	14,422	14,600	18,438	2.8	43.8	38.3	40.1
Industrial.....	7,024	10,297	10,672	4.8	21.3	27.0	23.2
Other.....	856	911	1,401	5.6	2.6	2.4	3.0
Total.....	32,958	38,069	45,937	3.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	859	935	1,137	3.2	38.7	40.2	41.2
Commercial.....	935	865	1,045	1.3	42.1	37.2	37.9
Industrial.....	354	453	483	3.5	15.9	19.5	17.5
Other.....	74	75	93	2.6	3.3	3.2	3.4
Total.....	2,221	2,328	2,758	2.4	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.07	7.62	7.37	-1.0	NA	NA	NA
Commercial.....	6.48	5.92	5.67	-1.5	NA	NA	NA
Industrial.....	5.04	4.40	4.52	-1.2	NA	NA	NA
Other.....	8.60	8.22	6.64	-2.8	NA	NA	NA
Total.....	6.74	6.11	6.00	-1.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Colorado						
Number of Entities.....	2	30	0	28	0	60
Number of Retail Customers.....	1,345,055	381,315	0	491,371	0	2,217,741
Retail Sales (thousand megawatthours).....	27,457	8,219	0	10,260	0	45,937
Percentage of Retail Sales.....	59.77	17.89	.00	22.34	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,583	458	0	717	0	2,758
Percentage of Revenue.....	57.40	16.60	.00	26.00	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.77	5.57	.00	6.99	0	6.00

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Connecticut		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	7,400	34
Electric Utilities	34	48
Independent Power Producers & Combined Heat and Power	7,365	11
Net Generation (megawatthours)	31,311,218	38
Electric Utilities	21,463	48
Independent Power Producers & Combined Heat and Power	31,289,755	11
Emissions (thousand short tons)		
Sulfur Dioxide.....	11	46
Nitrogen Oxide.....	10	45
Carbon Dioxide.....	9,719	40
Sulfur Dioxide/sq. mile.....	2	29
Nitrogen Oxide/sq. mile.....	2	23
Carbon Dioxide/sq. mile.....	2,006	13
Utility and ESP Retail Electricity Sales (megawatthours).....	30,905,605	33
Utility Retail Electricity Sales (megawatthours)	30,615,280	33
ESP Retail Electricity Sales (megawatthours)	290,325	16
Direct Use (megawatthours).....	2,774,346	15
Average Retail Price (cents/kWh).....	9.73	9

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Connecticut			
1. Millstone	Nuclear	Dominion Nuclear Conn Inc	2,006
2. Middletown	Other, Petroleum, Gas	NRG Middletown Operations Inc	837
3. Lake Road Generating.....	Petroleum, Gas	Lake Road Generating Co LP	696
4. Montville Station	Gas, Petroleum	NRG Montville Operations Inc	496
5. New Haven Harbor.....	Gas, Petroleum	PSEG Power Connecticut LLC	461
6. Bridgeport Energy Pro.....	Gas	Bridgeport Energy LLC	454
7. Bridgeport Station.....	Petroleum, Coal	PSEG Power Connecticut LLC	417
8. Devon Station	Petroleum, Gas	NRG Devon Operations Inc	351
9. NRG Norwalk Harbor	Petroleum	NRG Norwalk Harbor Ops Inc	342
10. PPL Wallingford Energy	Gas	PPL Wallingford Energy LLC	190

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Connecticut					
A. Connecticut Light & Power Co	22,951,701	9,525,042	9,561,822	3,573,159	291,678
B. United Illuminating Company	5,781,010	2,247,196	2,465,711	1,021,586	46,517
C. Town of Wallingford.....	608,893	201,498	200,187	184,179	23,029
D. City of Groton Dept of Utils.....	568,347	107,338	120,168	332,755	8,086
E. City of Norwich	328,438	117,661	129,629	54,354	26,794
Total	30,238,389	12,198,735	12,477,517	5,166,033	396,104
Percentage of Utility Sales.....	98	98	100	96	72

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Connecticut							
Coal	385	385	0	NM	5.2	5.5	0.0
Petroleum	2,429	2,273	25	-39.8	33.0	32.7	.3
Natural Gas	0	341	0	NM	.0	4.9	.0
Dual Fired	528	528	0	NM	7.2	7.6	.0
Nuclear	3,211	2,631	0	NM	43.7	37.8	.0
Hydroelectric	137	136	9	-25.9	1.9	2.0	.1
Other Renewables	64	0	0	NM	.9	.0	.0
Total Electric Utilities	6,754	6,294	34	-44.4	91.9	90.5	.5
Coal	200	200	553	11.9	2.7	2.9	7.5
Petroleum	0	0	1,229	NM	.0	.0	16.6
Natural Gas	43	14	832	38.9	.6	.2	11.2
Dual Fired	199	184	2,350	31.5	2.7	2.6	31.8
Nuclear	0	0	2,006	NM	.0	.0	27.1
Hydroelectric	21	21	141	23.7	.3	.3	1.9
Other Renewables	135	241	254	7.3	1.8	3.5	3.4
Other	0	3	1	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	599	663	7,365	32.2	8.1	9.5	99.5
Coal	585	585	553	-.6	8.0	8.4	7.5
Petroleum	2,429	2,273	1,254	-7.1	33.0	32.7	16.9
Natural Gas	43	355	832	38.9	.6	5.1	11.2
Dual Fired	727	712	2,350	13.9	9.9	10.2	31.8
Nuclear	3,211	2,631	2,006	-5.1	43.7	37.8	27.1
Hydroelectric	158	157	150	-.5	2.1	2.3	2.0
Other Renewables	199	241	254	2.7	2.7	3.5	3.4
Other	0	3	1	NM	.0	.0	.0
Total Electric Industry	7,353	6,957	7,400	.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Connecticut							
Coal	1,907,826	2,557,934	0	NM	5.8	14.5	0.0
Petroleum	4,206,354	8,431,425	928	-60.8	12.8	47.7	.0
Natural Gas	47,401	1,545,712	0	NM	.1	8.7	.0
Nuclear	21,801,782	-124,722	0	NM	66.3	-7	.0
Hydroelectric	345,409	366,668	20,535	-26.9	1.1	2.1	.1
Other Renewables	406,095	450,749	0	NM	1.2	2.6	.0
Total Electric Utilities	28,714,867	13,227,766	21,463	-55.1	87.3	74.8	.1
Coal	1,600,491	1,601,210	3,227,202	8.1	4.9	9.1	10.3
Petroleum	178,147	77,284	2,336,957	33.1	.5	.4	7.5
Natural Gas	1,336,515	1,049,652	8,868,470	23.4	4.1	5.9	28.3
Other Gases	0	51	8,834	NM	.0	.0	.0
Nuclear	0	0	14,918,272	NM	.0	.0	47.6
Hydroelectric	65,022	72,585	304,352	18.7	.2	.4	1.0
Other Renewables	989,528	1,645,749	1,625,668	5.7	3.0	9.3	5.2
Total IPP's & Combined Heat and Power	4,169,704	4,446,530	31,289,755	25.1	12.7	25.2	99.9
Coal	3,508,317	4,159,144	3,227,202	-9	10.7	23.5	10.3
Petroleum	4,384,501	8,508,709	2,337,885	-6.7	13.3	48.1	7.5
Natural Gas	1,383,916	2,595,364	8,868,470	22.9	4.2	14.7	28.3
Other Gases	0	51	8,834	NM	.0	.0	.0
Nuclear	21,801,782	-124,722	14,918,272	-4.1	66.3	-7	47.6
Hydroelectric	410,431	439,253	324,887	-2.6	1.2	2.5	1.0
Other Renewables	1,395,623	2,096,498	1,625,668	1.7	4.2	11.9	5.2
Total Electric Industry	32,884,571	17,674,296	31,311,218	-5	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Connecticut				
Coal (2002 cents per million Btu)	190.0	195.8	244.9	2.9
Average heat value (Btu per pound)	13,144	13,132	11,309	-1.6
Average sulfur Content(percent) .....	.6	.5	.9	5.4
Petroleum (2002 cents per million Btu)	267.3	300.8	422.4	5.2
Average heat value (Btu per gallon)	151,739	152,432	149,929	-1
Average sulfur Content(percent) .....	.8	.7	.4	-8.1
Gas (2002 cents per million Btu).....	421.2	248.8	392.0	-8
Average heat value (Btu per cubic foot).....	1,032	1,019	1,023	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Connecticut				
Sulfur Dioxide				
Coal	9	13	4	-8.9
Petroleum	22	40	7	-12.0
Gas.....	0	0	*	NM
Other.....	1	*	*	-10.8
Total	32	53	11	-11.0
Nitrogen Oxide				
Coal	10	10	2	-15.9
Petroleum	4	12	2	-5.7
Gas.....	1	3	2	5.8
Other.....	4	4	3	-2.5
Total	20	28	10	-7.6
Carbon Dioxide				
Coal	3,597	4,510	3,373	-.7
Petroleum	3,954	7,657	2,048	-7.0
Gas.....	659	1,534	3,999	22.2
Other.....	167	290	299	6.7
Total	8,376	13,991	9,719	1.7

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Connecticut							
Retail Sales (thousand megawatthours)							
Residential.....	10,597	10,859	12,459	1.8	38.9	38.2	40.3
Commercial.....	10,677	11,278	12,532	1.8	39.2	39.7	40.5
Industrial	5,597	5,919	5,367	-.5	20.5	20.8	17.4
Other	368	376	548	4.5	1.3	1.3	1.8
Total	27,238	28,432	30,906	1.4	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,345	1,354	1,366	.2	43.2	44.0	45.4
Commercial.....	1,194	1,191	1,172	-.2	38.3	38.8	39.0
Industrial	517	472	412	-2.5	16.6	15.4	13.7
Other	58	56	57	-.2	1.8	1.8	1.9
Total	3,114	3,073	3,007	-4	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.69	12.47	10.96	-1.6	NA	NA	NA
Commercial.....	11.18	10.56	9.35	-2.0	NA	NA	NA
Industrial	9.23	7.97	7.68	-2.0	NA	NA	NA
Other	15.69	14.92	10.36	-4.5	NA	NA	NA
Total	11.43	10.81	9.73	-1.8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Connecticut						
Number of Entities	3	7	0	0	4	14
Number of Retail Customers	1,464,597	68,330	0	0	22,063	1,554,990
Retail Sales (thousand megawatthours).....	28,751	1,864	0	0	290	30,906
Percentage of Retail Sales.....	93.03	6.03	.00	.00	.94	100.00
Revenue from Retail Sales (million 2002 dollars)	2,851	143	0	0	14	3,007
Percentage of Revenue.....	94.80	4.75	.00	.00	.46	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	9.91	7.66	.00	.00	0	9.73

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Delaware		
NERC Region(s).....		MACC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	3,390	44
Electric Utilities	58	47
Independent Power Producers & Combined Heat and Power	3,332	22
Net Generation (megawatthours).....	6,002,490	49
Electric Utilities	170,994	46
Independent Power Producers & Combined Heat and Power	5,831,496	30
Emissions (thousand short tons)		
Sulfur Dioxide	33	40
Nitrogen Oxide	12	42
Carbon Dioxide	5,989	44
Sulfur Dioxide/sq. mile.....	17	7
Nitrogen Oxide/sq. mile.....	6	6
Carbon Dioxide/sq. mile.....	3,063	8
Utility and ESP Retail Electricity Sales (megawatthours).....	11,557,069	42
Utility Retail Electricity Sales (megawatthours)	10,863,633	41
ESP Retail Electricity Sales (megawatthours).....	693,436	15
Direct Use (megawatthours).....	346,740	35
Average Retail Price (cents/kWh).....	7.05	17

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

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

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Delaware					
A. Delmarva Power & Light Company	8,297,881	2,817,181	3,166,888	2,274,693	39,119
B. Delaware Electric Coop, Inc	891,013	738,403	136,572	9,996	6,042
C. City of Dover	747,980	179,763	215,077	344,415	8,725
D. Conectiv Energy Supply, Inc	419,577	0	2,501	417,076	0
E. City of Newark.....	381,645	93,695	65,212	222,738	0
Total	10,738,096	3,829,042	3,586,250	3,268,918	53,886
Percentage of Utility Sales.....	93	95	90	95	60

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Delaware							
Coal	931	1,019	0	NM	38.1	41.7	0.0
Petroleum	124	572	9	-25.6	5.1	23.4	.3
Natural Gas	399	175	0	NM	16.3	7.2	.0
Dual Fired	815	511	49	-26.8	33.3	20.9	1.4
Total Electric Utilities	2,269	2,277	58	-33.5	92.8	93.2	1.7
Coal	37	27	1,050	45.0	1.5	1.1	31.0
Petroleum	134	135	561	17.2	5.5	5.5	16.5
Natural Gas	0	0	184	NM	.0	.0	5.4
Other Gases	1	0	303	84.9	.0	.0	8.9
Dual Fired	4	4	1,235	87.4	.2	.2	36.4
Total IPP's & Combined Heat and Power	177	167	3,332	38.6	7.2	6.8	98.3
Coal	968	1,046	1,050	.9	39.6	42.8	31.0
Petroleum	258	707	570	9.2	10.5	28.9	16.8
Natural Gas	399	175	184	-8.3	16.3	7.2	5.4
Other Gases	1	0	303	84.9	.0	.0	8.9
Dual Fired	819	515	1,284	5.1	33.5	21.1	37.9
Total Electric Industry	2,446	2,443	3,390	3.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Delaware							
Coal	5,185,396	3,925,643	0	NM	57.5	54.4	0.0
Petroleum	2,094,383	832,577	154,118	-25.2	23.2	11.5	2.6
Natural Gas	1,026,683	1,820,379	16,876	-36.6	11.4	25.2	.3
Total Electric Utilities	8,306,462	6,578,599	170,994	-35.0	92.1	91.1	2.8
Coal	189,219	74,941	3,463,565	38.1	2.1	1.0	57.7
Petroleum	410,238	382,924	795,578	7.6	4.5	5.3	13.3
Natural Gas	2,507	8,379	1,426,007	102.3	.0	.1	23.8
Other Gases	103,206	177,792	146,346	4.0	1.1	2.5	2.4
Other	6,049	0	0	NM	.1	.0	.0
Total IPP's & Combined Heat and Power	711,219	644,036	5,831,496	26.3	7.9	8.9	97.2
Coal	5,374,615	4,000,584	3,463,565	-4.8	59.6	55.4	57.7
Petroleum	2,504,621	1,215,501	949,696	-10.2	27.8	16.8	15.8
Natural Gas	1,029,190	1,828,758	1,442,883	3.8	11.4	25.3	24.0
Other Gases	103,206	177,792	146,346	4.0	1.1	2.5	2.4
Other	6,049	0	0	NM	.1	.0	.0
Total Electric Industry	9,017,681	7,222,635	6,002,490	-4.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Delaware				
Coal (2002 cents per million Btu)	188.4	161.5	177.8	-0.6
Average heat value (Btu per pound).....	13,027	13,062	12,352	-6
Average sulfur Content(percent) .....	.9	1.0	.9	-3
Petroleum (2002 cents per million Btu)	256.4	285.7	405.6	5.2
Average heat value (Btu per gallon).....	151,287	151,465	146,095	-4
Average sulfur Content(percent) .....	.9	.9	.7	-3.3
Gas (2002 cents per million Btu).....	290.8	313.2	374.9	2.9
Average heat value (Btu per cubic foot).....	1,033	1,035	1,023	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Delaware				
Sulfur Dioxide				
Coal	41	37	29	-3.5
Petroleum	22	18	3	-18.9
Gas.....	0	0	0	NM
Other.....	*	0	0	NM
Total	63	55	33	-7.0
Nitrogen Oxide				
Coal	21	14	8	-10.7
Petroleum	4	2	2	-7.0
Gas.....	1	1	2	6.6
Total	26	17	12	-8.3
Carbon Dioxide				
Coal	6,125	4,580	3,934	-4.8
Petroleum	2,189	1,197	863	-9.8
Gas.....	584	1,113	1,191	8.3
Total	8,898	6,891	5,989	-4.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Delaware							
Retail Sales (thousand megawatthours)							
Residential.....	3,044	3,257	4,020	3.1	33.4	32.2	34.8
Commercial.....	2,605	3,068	3,994	4.9	28.6	30.3	34.6
Industrial.....	3,417	3,741	3,452	.1	37.5	37.0	29.9
Other.....	56	56	90	5.5	.6	.5	.8
Total.....	9,121	10,122	11,557	2.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	306	309	350	1.5	43.1	42.4	42.9
Commercial.....	210	227	279	3.2	29.7	31.1	34.2
Industrial.....	186	185	177	-6	26.2	25.5	21.7
Other.....	7	7	10	3.0	1.0	1.0	1.2
Total.....	709	728	815	1.5	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.04	9.48	8.70	-1.6	NA	NA	NA
Commercial.....	8.08	7.39	6.98	-1.6	NA	NA	NA
Industrial.....	5.44	4.96	5.11	-7	NA	NA	NA
Other.....	13.12	12.80	10.62	-2.3	NA	NA	NA
Total.....	7.78	7.19	7.05	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Delaware						
Number of Entities.....	1	9	0	1	5	16
Number of Retail Customers.....	276,332	53,148	0	62,643	12	392,135
Retail Sales (thousand megawatthours).....	8,298	1,675	0	891	693	11,557
Percentage of Retail Sales.....	71.80	14.49	.00	7.71	6.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	576	137	0	76	26	815
Percentage of Revenue.....	70.73	16.81	.00	9.30	3.16	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.95	8.18	.00	8.50	0	7.05

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
District of Columbia		
NERC Region(s).....		MAAC
Primary Energy Source		Petroleum
Net Summer Capability (megawatts).....	806	51
Independent Power Producers & Combined Heat and Power	806	40
Net Generation (megawatthours).....	261,980	51
Independent Power Producers & Combined Heat and Power	261,980	48
Emissions (thousand short tons)		
Sulfur Dioxide.....	1	49
Nitrogen Oxide.....	1	50
Carbon Dioxide.....	288	50
Sulfur Dioxide/sq. mile.....	18	6
Nitrogen Oxide/sq. mile.....	11	2
Carbon Dioxide/sq. mile.....	4,721	1
Utility and ESP Retail Electricity Sales (megawatthours).....	11,066,099	43
Utility Retail Electricity Sales (megawatthours)	5,680,946	48
ESP Retail Electricity Sales (megawatthours).....	5,385,153	9
Direct Use (megawatthours).....	-7,528	43
Average Retail Price (cents/kWh).....	7.37	14

See footnotes at end of tables.

Table 2. Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capacity (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. Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
District of Columbia					
A. Potomac Electric Power Company	5,680,946	1,660,279	3,635,358	282,397	102,912
B. Washington Gas Engy Serv Inc.....	2,948,389	179,698	2,462,677	0	306,014
C. Power Choice	2,436,764	60,745	2,376,019	0	0
Total	11,066,099	1,900,722	8,474,054	282,397	408,926
Percentage of Utility Sales.....	100	100	100	100	100

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
District of Columbia							
Petroleum	806	806	0	NM	99.7	100.0	0.0
Total Electric Utilities	806	806	0	NM	99.7	100.0	.0
Coal	3	0	0	NM	.3	.0	.0
Petroleum	0	0	806	NM	.0	.0	100.0
Total IPP's & Combined Heat and Power	3	0	806	89.0	.3	.0	100.0
Coal	3	0	0	NM	.3	.0	.0
Petroleum	806	806	806	.0	99.7	100.0	100.0
Total Electric Industry.....	809	806	806	.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
District of Columbia							
Petroleum	188,452	70,661	0	NM	100.0	100.0	0.0
Total Electric Utilities	188,452	70,661	0	NM	100.0	100.0	.0
Petroleum	0	0	261,980	NM	.0	.0	100.0
Total IPP's & Combined Heat and Power	0	0	261,980	NM	.0	.0	100.0
Petroleum	188,452	70,661	261,980	3.7	100.0	100.0	100.0
Total Electric Industry.....	188,452	70,661	261,980	3.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
District of Columbia				
Petroleum (2002 cents per million Btu)	338.7	367.6	498.8	4.4
Average heat value (Btu per gallon)	143,552	144,404	138,483	-4
Average sulfur Content(percent) .....	.9	1.0	.6	-4.8

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
District of Columbia				
Petroleum	1	*	1	-2.3
Total	1	*	1	-2.3
Petroleum	*	*	1	12.2
Total	*	*	1	12.2
Petroleum	241	98	288	2.0
Total	241	98	288	2.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
District of Columbia							
Retail Sales (thousand megawatthours)							
Residential	1,635	1,554	1,901	1.7	15.8	15.4	17.2
Commercial	5,418	7,925	8,474	5.1	52.2	78.4	76.6
Industrial	2,976	262	282	-23.0	28.7	2.6	2.5
Other	346	366	409	1.9	3.3	3.6	3.7
Total	10,375	10,107	11,066	.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential	131	126	149	1.4	16.7	16.4	18.2
Commercial	431	605	626	4.2	55.1	78.9	76.7
Industrial	196	12	14	-25.4	25.0	1.5	1.7
Other	25	25	27	.9	3.2	3.2	3.3
Total	783	767	815	.4	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential	8.00	8.09	7.82	-.3	NA	NA	NA
Commercial	7.96	7.64	7.38	-.8	NA	NA	NA
Industrial	6.59	4.55	4.95	-3.1	NA	NA	NA
Other	7.20	6.72	6.60	-1.0	NA	NA	NA
Total	7.55	7.59	7.37	-.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
District of Columbia						
Number of Entities	1	0	0	0	2	3
Number of Retail Customers	207,424	0	0	0	24,560	231,984
Retail Sales (thousand megawatthours).....	5,681	0	0	0	5,385	11,066
Percentage of Retail Sales.....	51.34	.00	.00	.00	48.66	100.00
Revenue from Retail Sales (million 2002 dollars)	583	0	0	0	233	815
Percentage of Revenue.....	71.46	.00	.00	.00	28.54	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	10.26	.00	.00	.00	0	7.37

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Florida		
NERC Region(s).....		FRCC/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	47,054	3
Electric Utilities	40,313	1
Independent Power Producers & Combined Heat and Power	6,740	12
Net Generation (megawatthours).....	203,352,775	3
Electric Utilities	182,346,629	1
Independent Power Producers & Combined Heat and Power	21,006,146	13
Emissions (thousand short tons)		
Sulfur Dioxide	502	7
Nitrogen Oxide	289	4
Carbon Dioxide	131,482	3
Sulfur Dioxide/sq. mile.....	9	12
Nitrogen Oxide/sq. mile.....	5	8
Carbon Dioxide/sq. mile.....	2,438	11
Utility and ESP Retail Electricity Sales (megawatthours).....	210,473,530	3
Utility Retail Electricity Sales (megawatthours)	210,473,530	2
Direct Use (megawatthours).....	6,576,949	6
Average Retail Price (cents/kWh).....	7.31	15

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Florida			
1. Crystal River.....	Petroleum, Nuclear, Coal	Florida Power Corp	3,144
2. Martin.....	Petroleum, Gas	Florida Power & Light Co	2,850
3. Turkey Point	Gas, Petroleum, Nuclear	Florida Power & Light Co	2,198
4. Fort Myers	Petroleum, Gas	Florida Power & Light Co	2,059
5. Big Bend	Petroleum, Coal	Tampa Electric Co	1,852
6. Lauderdale.....	Petroleum, Gas	Florida Power & Light Co	1,694
7. St Lucie.....	Nuclear	Florida Power & Light Co	1,678
8. Port Everglades.....	Gas, Petroleum	Florida Power & Light Co	1,632
9. Manatee.....	Gas, Petroleum	Florida Power & Light Co	1,620
10. Seminole.....	Petroleum, Coal	Seminole Electric Coop Inc	1,316

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Florida					
A. Florida Power & Light Company	95,542,625	50,875,435	40,037,337	4,058,048	571,805
B. Florida Power Corporation	36,859,347	18,753,816	11,420,084	3,835,061	2,850,386
C. Tampa Electric Company	17,925,140	8,046,430	5,831,617	2,611,973	1,435,120
D. JEA.....	11,925,601	5,072,732	3,839,135	2,901,895	111,839
E. Gulf Power Company	10,771,897	5,143,802	3,552,931	2,053,668	21,496
Total	173,024,610	87,892,215	64,681,104	15,460,645	4,990,646
Percentage of Utility Sales.....	82	81	83	82	86

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Florida							
Coal	10,030	10,823	11,301	1.3	27.0	26.8	24.0
Petroleum	5,568	5,693	4,894	-1.4	15.0	14.1	10.4
Natural Gas	2,669	3,515	3,570	3.3	7.2	8.7	7.6
Dual Fired	12,674	12,770	16,587	3.0	34.1	31.6	35.3
Nuclear	3,826	3,876	3,906	.2	10.3	9.6	8.3
Hydroelectric	47	47	50	.7	.1	.1	.1
Other Renewables	0	3	5	NM	.0	.0	.0
Total Electric Utilities	34,814	36,727	40,313	1.6	93.5	91.0	85.7
Coal	235	734	806	14.7	.6	1.8	1.7
Petroleum	66	58	18	-13.5	.2	.1	.0
Natural Gas	334	798	521	5.0	.9	2.0	1.1
Dual Fired	545	608	4,043	24.9	1.5	1.5	8.6
Other Renewables	875	1,080	962	1.1	2.4	2.7	2.0
Other	347	347	391	1.3	.9	.9	.8
Total IPP's & Combined Heat and Power	2,402	3,624	6,740	12.1	6.5	9.0	14.3
Coal	10,266	11,557	12,107	1.9	27.6	28.6	25.7
Petroleum	5,634	5,750	4,912	-1.5	15.1	14.3	10.4
Natural Gas	3,004	4,313	4,091	3.5	8.1	10.7	8.7
Dual Fired	13,219	13,378	20,630	5.1	35.5	33.2	43.8
Nuclear	3,826	3,876	3,906	.2	10.3	9.6	8.3
Hydroelectric	47	47	50	.7	.1	.1	.1
Other Renewables	875	1,083	967	1.1	2.4	2.7	2.1
Other	347	347	391	1.3	.9	.9	.8
Total Electric Industry	37,216	40,351	47,054	2.6	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Florida							
Coal	61,889,050	66,034,628	60,997,142	-0.2	40.7	39.2	30.0
Petroleum	34,277,523	25,742,149	32,449,236	-6	22.6	15.3	16.0
Natural Gas	17,802,730	32,997,876	54,883,087	13.3	11.7	19.6	27.0
Nuclear	25,886,864	22,967,743	33,704,230	3.0	17.0	13.7	16.6
Hydroelectric	210,776	241,280	184,114	-1.5	.1	.1	.1
Other Renewables	0	0	128,820	NM	.0	.0	.1
Total Electric Utilities	140,066,943	147,983,676	182,346,629	3.0	92.2	88.0	89.7
Coal	1,249,624	4,899,877	4,929,251	16.5	.8	2.9	2.4
Petroleum	449,569	417,573	1,232,115	11.9	.3	.2	.6
Natural Gas	2,952,072	6,877,808	8,280,948	12.1	1.9	4.1	4.1
Other Gases	72,413	56,209	13,079	-17.3	.0	.0	.0
Other Renewables	5,466,581	5,953,025	5,014,581	-1.0	3.6	3.5	2.5
Other	1,676,955	2,058,826	1,536,172	-1.0	1.1	1.2	.8
Total IPP's & Combined Heat and Power	11,867,212	20,263,318	21,006,146	6.6	7.8	12.0	10.3
Coal	63,138,674	70,934,505	65,926,393	.5	41.6	42.2	32.4
Petroleum	34,727,092	26,159,722	33,681,351	-3	22.9	15.5	16.6
Natural Gas	20,754,802	39,875,684	63,164,035	13.2	13.7	23.7	31.1
Other Gases	72,413	56,209	13,079	-17.3	.0	.0	.0
Nuclear	25,886,864	22,967,743	33,704,230	3.0	17.0	13.7	16.6
Hydroelectric	210,776	241,280	184,114	-1.5	.1	.1	.1
Other Renewables	5,466,581	5,953,025	5,143,401	-7	3.6	3.5	2.5
Other	1,676,955	2,058,826	1,536,172	-1.0	1.1	1.2	.8
Total Electric Industry	151,934,155	168,246,994	203,352,775	3.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Florida				
Coal (2002 cents per million Btu)	197.0	177.3	176.2	-1.2
Average heat value (Btu per pound)	12,332	12,122	12,247	-1
Average sulfur Content(percent)	1.6	1.6	1.5	-1
Petroleum (2002 cents per million Btu)	245.4	260.9	324.0	3.1
Average heat value (Btu per gallon)	151,661	143,488	147,664	-3
Average sulfur Content(percent)	1.5	1.9	1.8	1.9
Gas (2002 cents per million Btu)	260.9	312.7	396.7	4.8
Average heat value (Btu per cubic foot)	1,009	1,044	1,026	.2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Florida				
Sulfur Dioxide				
Coal	463	472	303	-4.6
Petroleum	259	231	190	-3.3
Gas.....*	*	*	*	.0
Other.....	12	14	8	-4.9
Total	734	717	501	-4.2
Nitrogen Oxide				
Coal	239	220	188	-2.6
Petroleum	47	57	57	2.1
Gas.....	34	42	37	.8
Other.....	8	10	9	.8
Total	328	328	289	-1.4
Carbon Dioxide				
Coal	63,399	72,577	68,578	.9
Petroleum	29,487	23,402	30,160	.3
Gas.....	11,741	21,393	32,013	11.8
Other.....	632	684	731	1.6
Total	105,259	118,055	131,482	2.5

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Florida							
Retail Sales (thousand megawatthours)							
Residential.....	76,827	87,845	108,164	3.9	50.3	50.2	51.4
Commercial.....	54,876	63,337	77,561	3.9	35.9	36.2	36.8
Industrial	16,298	18,266	18,959	1.7	10.7	10.4	9.0
Other	4,747	5,593	5,789	2.2	3.1	3.2	2.8
Total	152,748	175,041	210,474	3.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	6,836	7,293	8,823	2.9	55.8	56.4	57.3
Commercial.....	4,087	4,306	5,150	2.6	33.4	33.3	33.5
Industrial	955	945	991	.4	7.8	7.3	6.4
Other	368	391	430	1.8	3.0	3.0	2.8
Total	12,247	12,936	15,394	2.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.90	8.30	8.16	-1.0	NA	NA	NA
Commercial.....	7.45	6.80	6.64	-1.3	NA	NA	NA
Industrial	5.86	5.18	5.23	-1.3	NA	NA	NA
Other	7.75	6.99	7.43	-5	NA	NA	NA
Total	8.02	7.39	7.31	-1.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Florida						
Number of Entities.....	5	32	0	16	0	53
Number of Retail Customers.....	6,493,560	1,178,945	0	860,774	0	8,533,279
Retail Sales (thousand megawatthours).....	161,843	32,987	0	15,644	0	210,474
Percentage of Retail Sales.....	76.89	15.67	.00	7.43	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	11,941	2,266	0	1,186	0	15,394
Percentage of Revenue.....	77.57	14.72	.00	7.71	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.38	6.87	.00	7.58	0	7.31

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Georgia		
NERC Region(s).....		SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	34,601	7
Electric Utilities	25,821	4
Independent Power Producers & Combined Heat and Power	8,780	10
Net Generation (megawatthours)	126,512,216	9
Electric Utilities	111,855,967	7
Independent Power Producers & Combined Heat and Power	14,656,249	16
Emissions (thousand short tons)		
Sulfur Dioxide	566	5
Nitrogen Oxide.....	165	10
Carbon Dioxide.....	83,943	10
Sulfur Dioxide/sq. mile.....	10	11
Nitrogen Oxide/sq. mile.....	3	17
Carbon Dioxide/sq. mile.....	1,449	18
Utility and ESP Retail Electricity Sales (megawatthours).....	123,789,078	8
Utility Retail Electricity Sales (megawatthours)	123,789,078	7
Direct Use (megawatthours).....	5,455,994	8
Average Retail Price (cents/kWh).....	6.24	28

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Georgia			
1. Scherer	Petroleum, Coal	Georgia Power Co	3,430
2. Bowen	Petroleum, Coal	Georgia Power Co	3,294
3. Wansley.....	Petroleum, Coal	Georgia Power Co	2,805
4. Vogtle.....	Nuclear	Georgia Power Co	2,297
5. Edwin I Hatch.....	Nuclear	Georgia Power Co	1,726
6. Harlee Branch.....	Petroleum, Coal	Georgia Power Co	1,607
7. Yates.....	Petroleum, Gas, Coal	Georgia Power Co	1,295
8. Murray Energy Facilit	Gas	Duke Energy North Amer-Murray	1,244
9. Wansley.....	Gas	Southern Power Co	973
10. Tenaska Georgia Gener	Petroleum, Gas	Tenaska Georgia Partners LP	933

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Georgia					
A. Georgia Power Company	75,432,469	22,144,559	26,954,922	25,739,785	593,203
B. Savannah Electric & Power Co.....	4,203,626	1,793,330	1,477,224	793,181	139,891
C. Jackson Electric Member Corp	3,823,910	2,205,407	986,068	489,439	142,996
D. Cobb Electric Membership Corp	3,362,087	2,120,993	908,281	197,389	135,424
E. North Georgia Elec Member Corp.....	2,550,739	1,358,670	443,663	729,134	19,272
Total	89,372,831	29,622,959	30,770,158	27,948,928	1,030,786
Percentage of Utility Sales.....	72	61	79	81	61

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Georgia							
Coal	13,115	13,222	13,498	0.3	58.2	53.2	39.0
Petroleum	1,057	1,061	991	-7	4.7	4.3	2.9
Natural Gas	33	33	2,315	60.3	.1	.1	6.7
Dual Fired	622	1,415	1,225	7.8	2.8	5.7	3.5
Nuclear	3,825	3,955	4,023	.6	17.0	15.9	11.6
Hydroelectric	2,853	3,461	3,769	3.1	12.7	13.9	10.9
Total Electric Utilities	21,504	23,147	25,821	2.1	95.5	93.1	74.6
Coal	64	51	317	19.4	.3	.2	.9
Petroleum	150	185	253	6.0	.7	.7	.7
Natural Gas	23	161	4,185	78.5	.1	.6	12.1
Dual Fired	87	582	3,613	51.3	.4	2.3	10.4
Hydroelectric	13	14	10	-3.0	.1	.1	.0
Other Renewables	679	715	402	-5.6	3.0	2.9	1.2
Total IPP's & Combined Heat and Power	1,015	1,707	8,780	27.1	4.5	6.9	25.4
Coal	13,179	13,273	13,815	.5	58.5	53.4	39.9
Petroleum	1,206	1,246	1,243	.3	5.4	5.0	3.6
Natural Gas	56	194	6,500	69.6	.2	.8	18.8
Dual Fired	710	1,997	4,838	23.8	3.2	8.0	14.0
Nuclear	3,825	3,955	4,023	.6	17.0	15.9	11.6
Hydroelectric	2,865	3,474	3,779	3.1	12.7	14.0	10.9
Other Renewables	679	715	402	-5.6	3.0	2.9	1.2
Total Electric Industry	22,519	24,854	34,601	4.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Georgia							
Coal	63,295,811	66,179,551	77,288,328	2.2	62.4	61.5	61.1
Petroleum	237,473	200,873	233,940	-.2	.2	.2	.2
Natural Gas	218,218	567,727	1,189,392	20.7	.2	.5	.9
Nuclear	27,233,352	30,414,494	31,107,735	1.5	26.8	28.3	24.6
Hydroelectric	4,752,651	4,417,788	2,036,572	-9.0	4.7	4.1	1.6
Total Electric Utilities	95,737,505	101,780,433	111,855,967	1.7	94.4	94.6	88.4
Coal	956,755	996,020	1,539,796	5.4	.9	.9	1.2
Petroleum	900,439	730,296	970,625	.8	.9	.7	.8
Natural Gas	477,995	648,381	5,699,758	31.7	.5	.6	4.5
Hydroelectric	48,444	51,420	30,982	-4.8	.0	.0	.0
Other Renewables	3,326,431	3,415,216	6,415,087	7.6	3.3	3.2	5.1
Other	0	4,194	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	5,710,064	5,845,526	14,656,249	11.0	5.6	5.4	11.6
Coal	64,252,566	67,175,571	78,828,124	2.3	63.3	62.4	62.3
Petroleum	1,137,912	931,169	1,204,565	.6	1.1	.9	1.0
Natural Gas	696,213	1,216,108	6,889,150	29.0	.7	1.1	5.4
Nuclear	27,233,352	30,414,494	31,107,735	1.5	26.8	28.3	24.6
Hydroelectric	4,801,095	4,469,208	2,067,554	-8.9	4.7	4.2	1.6
Other Renewables	3,326,431	3,415,216	6,415,087	7.6	3.3	3.2	5.1
Other	0	4,194	0	NM	.0	.0	.0
Total Electric Industry	101,447,569	107,625,959	126,512,216	2.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Georgia				
Coal (2002 cents per million Btu)	198.6	163.0	167.7	-1.9
Average heat value (Btu per pound)	12,148	11,755	11,698	-.4
Average sulfur Content(percent)	1.4	.8	.8	-6.0
Petroleum (2002 cents per million Btu)	386.7	432.5	548.6	4.0
Average heat value (Btu per gallon)	142,391	140,473	140,850	-.1
Average sulfur Content(percent)	1.2	.5	.4	-11.8
Gas (2002 cents per million Btu)	360.8	272.8	362.3	*
Average heat value (Btu per cubic foot)	1,023	1,024	1,022	.0

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Georgia				
Sulfur Dioxide				
Coal	696	519	524	-3.1
Petroleum	4	7	24	23.0
Gas	0	0	*	NM
Other	12	10	18	4.5
Total	712	535	566	-2.5
Nitrogen Oxide				
Coal	186	183	152	-2.2
Petroleum	2	2	2	-5
Gas	1	2	5	23.3
Other	4	3	5	4.4
Total	193	189	165	-1.8
Carbon Dioxide				
Coal	63,347	73,610	78,752	2.4
Petroleum	1,485	1,076	1,149	-2.8
Gas	449	1,185	4,041	27.6
Other	0	3	1	NM
Total	65,281	75,874	83,943	2.8

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Georgia							
Retail Sales (thousand megawatthours)							
Residential	33,867	36,831	48,600	4.1	38.0	36.0	39.3
Commercial	25,169	30,200	38,887	4.9	28.2	29.5	31.4
Industrial	29,084	33,957	34,603	1.9	32.6	33.2	27.9
Other	1,071	1,262	1,699	5.3	1.2	1.2	1.4
Total	89,191	102,250	123,789	3.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential	2,940	2,931	3,706	2.6	44.1	43.8	48.0
Commercial	2,087	2,207	2,513	2.1	31.3	33.0	32.5
Industrial	1,536	1,441	1,366	-1.3	23.0	21.5	17.7
Other	101	117	141	3.8	1.5	1.8	1.8
Total	6,664	6,695	7,726	1.7	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential	8.68	7.96	7.63	-1.4	NA	NA	NA
Commercial	8.29	7.31	6.46	-2.7	NA	NA	NA
Industrial	5.28	4.24	3.95	-3.2	NA	NA	NA
Other	9.47	9.30	8.31	-1.4	NA	NA	NA
Total	7.47	6.55	6.24	-2.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Georgia						
Number of Entities	2	55	0	41	0	98
Number of Retail Customers	2,115,664	374,809	0	1,581,011	0	4,071,484
Retail Sales (thousand megawatthours).....	79,636	12,342	0	31,811	0	123,789
Percentage of Retail Sales.....	64.33	9.97	.00	25.70	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	4,574	807	0	2,344	0	7,726
Percentage of Revenue.....	59.20	10.45	.00	30.35	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.74	6.54	.00	7.37	0	6.24

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Hawaii		
NERC Region(s).....		--
Primary Energy Source		Petroleum
Net Summer Capability (megawatts).....	2,267	47
Electric Utilities	1,622	41
Independent Power Producers & Combined Heat and Power	645	42
Net Generation (megawatthours).....	11,663,069	44
Electric Utilities	7,513,051	40
Independent Power Producers & Combined Heat and Power	4,150,018	33
Emissions (thousand short tons)		
Sulfur Dioxide.....	29	41
Nitrogen Oxide.....	15	41
Carbon Dioxide.....	9,028	41
Sulfur Dioxide/sq. mile.....	4	22
Nitrogen Oxide/sq. mile.....	2	21
Carbon Dioxide/sq. mile.....	1,406	19
Utility and ESP Retail Electricity Sales (megawatthours).....	9,891,638	46
Utility Retail Electricity Sales (megawatthours)	9,891,638	45
Direct Use (megawatthours).....	521,088	28
Average Retail Price (cents/kWh).....	13.39	1

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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. Kalaeola Cogen Plant.....	Petroleum	Kalaeola Partners LP	180
6. Honolulu.....	Petroleum	Hawaiian Electric Co Inc	100
7. Port Allen.....	Petroleum	Citizens Utilities Co	96
8. Hamakua Energy Plant.....	Other	Hamakua Energy Partners LP	61
9. H Power	Other	DFO Partnership	60
10. HC & S - Puunene Fact	Petroleum, Hydro, Coal	Hawaiian Com & Sugar Co Ltd	46

See footnotes at end of tables.

Table 3. Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Hawaii					
A. Hawaiian Electric Company, Inc	7,390,367	2,002,655	2,309,597	3,034,903	43,212
B. Maui Electric Company, Ltd.....	1,158,717	398,871	372,076	382,093	5,677
C. Hawaii Electric Light Co, Inc	995,198	377,022	391,901	222,161	4,114
D. Citizens Communications Co.....	347,356	119,832	94,359	131,244	1,921
Total	9,891,638	2,898,380	3,167,933	3,770,401	54,924
Percentage of Utility Sales.....	100	100	100	100	100

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Hawaii							
Petroleum	1,598	1,574	1,618	0.1	67.4	67.3	71.4
Natural Gas	0	18	0	NM	.0	.8	.0
Hydroelectric	3	3	2	-7.3	.1	.1	.1
Other Renewables	0	0	2	NM	.0	.0	.1
Total Electric Utilities	1,602	1,595	1,622	.1	67.5	68.3	71.6
Coal	213	213	202	-6	9.0	9.1	8.9
Petroleum	275	275	197	-3.7	11.6	11.8	8.7
Natural Gas	0	0	67	NM	.0	.0	3.0
Other Gases	8	8	9	1.8	.3	.3	.4
Hydroelectric	14	25	22	4.8	.6	1.1	1.0
Other Renewables	259	221	148	-6.1	10.9	9.4	6.5
Total IPP's & Combined Heat and Power	770	742	645	-2.0	32.5	31.7	28.4
Coal	213	213	202	-6	9.0	9.1	8.9
Petroleum	1,874	1,849	1,815	-4	79.0	79.1	80.1
Natural Gas	0	18	67	NM	.0	.8	3.0
Other Gases	8	8	9	1.8	.3	.3	.4
Hydroelectric	18	28	23	3.2	.7	1.2	1.0
Other Renewables	259	221	150	-5.9	10.9	9.4	6.6
Total Electric Industry	2,372	2,337	2,267	-5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Hawaii							
Petroleum	6,070,063	6,193,852	7,502,913	2.4	61.0	60.1	64.3
Hydroelectric	13,752	18,791	8,533	-5.2	.1	.2	.1
Other Renewables	0	0	1,605	NM	.0	.0	.0
Total Electric Utilities	6,083,815	6,212,643	7,513,051	2.4	61.2	60.2	64.4
Coal	1,479,075	1,574,731	1,545,797	.5	14.9	15.3	13.3
Petroleum	1,323,918	1,495,288	1,964,077	4.5	13.3	14.5	16.8
Other Gases	63,068	65,383	40,816	-4.7	.6	.6	.3
Hydroelectric	42,491	96,540	86,535	8.2	.4	.9	.7
Other Renewables	951,321	867,663	512,794	-6.6	9.6	8.4	4.4
Total IPP's & Combined Heat and Power	3,859,872	4,099,604	4,150,018	.8	38.8	39.8	35.6
Coal	1,479,075	1,574,731	1,545,797	.5	14.9	15.3	13.3
Petroleum	7,393,981	7,689,140	9,466,990	2.8	74.4	74.6	81.2
Other Gases	63,068	65,383	40,816	-4.7	.6	.6	.3
Hydroelectric	56,243	115,331	95,068	6.0	.6	1.1	.8
Other Renewables	951,321	867,663	514,399	-6.6	9.6	8.4	4.4
Total Electric Industry	9,943,687	10,312,247	11,663,069	1.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Hawaii				
Coal (2002 cents per million Btu)	0.0	0.0	303.4	NM
Average heat value (Btu per pound).....	0	0	11,454	NM
Average sulfur Content(percent) .....	.0	.0	.3	NM
Petroleum (2002 cents per million Btu)	344.0	374.4	491.8	4.0
Average heat value (Btu per gallon).....	149,195	149,351	142,633	-.5
Average sulfur Content(percent) .....	.4	.4	.4	.3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Hawaii				
Sulfur Dioxide				
Coal	3	4	7	10.1
Petroleum	20	27	22	.9
Other.....	*	*	*	10.5
Total	23	31	29	2.4
Nitrogen Oxide				
Coal	5	7	3	-4.5
Petroleum	9	9	11	2.4
Gas.....	*	*	*	-14.3
Other.....	1	1	1	.9
Total	15	17	15	.1
Carbon Dioxide				
Coal	1,374	1,682	1,698	2.4
Petroleum	6,512	6,840	7,253	1.2
Gas.....	74	44	23	-12.2
Other.....	76	68	54	-3.8
Total	8,036	8,634	9,028	1.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Hawaii							
Retail Sales (thousand megawatthours)							
Residential.....	2,469	2,668	2,898	1.8	28.5	28.5	29.3
Commercial.....	2,363	2,782	3,168	3.3	27.3	29.7	32.0
Industrial.....	3,770	3,856	3,770	.0	43.5	41.2	38.1
Other.....	56	57	55	-.3	.6	.6	.6
Total.....	8,658	9,363	9,892	1.5	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	338	406	453	3.3	32.8	33.8	34.2
Commercial.....	308	379	447	4.2	29.9	31.5	33.7
Industrial.....	376	409	415	1.1	36.5	34.0	31.4
Other.....	7	8	9	3.1	.7	.6	.7
Total.....	1,028	1,202	1,325	2.9	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	13.68	15.21	15.63	1.5	NA	NA	NA
Commercial.....	13.01	13.63	14.11	.9	NA	NA	NA
Industrial.....	9.97	10.61	11.02	1.1	NA	NA	NA
Other.....	12.55	13.56	16.85	3.3	NA	NA	NA
Total.....	11.87	12.83	13.39	1.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Hawaii						
Number of Entities.....	3	1	0	0	0	4
Number of Retail Customers.....	408,605	26,203	0	0	0	434,808
Retail Sales (thousand megawatthours).....	9,544	347	0	0	0	9,892
Percentage of Retail Sales.....	96.49	3.51	.00	.00	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,248	77	0	0	0	1,325
Percentage of Revenue.....	94.22	5.78	.00	.00	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	13.08	22.06	.00	.00	0	13.39

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Idaho		
NERC Region(s).....		WSCC
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	3,264	45
Electric Utilities	2,690	38
Independent Power Producers & Combined Heat and Power	574	43
Net Generation (megawatthours).....	9,786,933	45
Electric Utilities	8,164,140	38
Independent Power Producers & Combined Heat and Power	1,622,793	41
Emissions (thousand short tons)		
Sulfur Dioxide	5	47
Nitrogen Oxide	2	48
Carbon Dioxide	809	49
Sulfur Dioxide/sq. mile.....	0	49
Nitrogen Oxide/sq. mile.....	0	50
Carbon Dioxide/sq. mile.....	10	49
Utility and ESP Retail Electricity Sales (megawatthours).....	20,699,666	38
Utility Retail Electricity Sales (megawatthours)	20,699,666	38
Direct Use (megawatthours).....	120,331	39
Average Retail Price (cents/kWh).....	5.58	44

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Idaho			
1. Brownlee	Hydro	Idaho Power Co	728
2. Dworshak	Hydro	USCE-North Pacific Division	460
3. Cabinet Gorge.....	Hydro	Avista Corporation	272
4. Rathdrum Power LLC.....	Gas	Rathdrum Operating Services Co.	248
5. Palisades.....	Hydro	U S Bureau of Reclamation	176
6. Rathdrum.....	Gas	Avista Corporation	136
7. C J Strike	Hydro	Idaho Power Co	88
8. American Falls.....	Hydro	Idaho Power Co	86
9. Mountain Home	Gas	Idaho Power Co	76
10. Bliss.....	Hydro	Idaho Power Co	75

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Idaho					
A. Idaho Power Company	12,265,349	4,197,803	5,057,033	2,982,939	27,574
B. PacifiCorp.....	3,225,369	582,967	354,840	2,285,481	2,081
C. Avista Corporation.....	2,600,246	1,010,456	881,248	699,502	9,040
D. Idaho Falls Power.....	623,863	282,632	253,003	45,909	42,319
E. Kootenai Electric Coop, Inc	289,952	200,128	76,804	9,012	4,008
Total	19,004,779	6,273,986	6,622,928	6,022,843	85,022
Percentage of Utility Sales.....	92	89	95	95	26

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Idaho							
Petroleum	6	6	5	-0.2	0.2	0.2	0.2
Natural Gas	0	136	212	NM	.0	4.5	6.5
Hydroelectric	2,299	2,435	2,472	.8	84.9	80.9	75.7
Total Electric Utilities	2,304	2,576	2,690	1.7	85.1	85.6	82.4
Coal	12	18	16	3.3	.5	.6	.5
Natural Gas	0	18	269	NM	.0	.6	8.2
Hydroelectric	247	253	193	-2.7	9.1	8.4	5.9
Other Renewables	130	130	81	-5.1	4.8	4.3	2.5
Other	15	15	15	.0	.5	.5	.5
Total IPP's & Combined Heat and Power	404	434	574	4.0	14.9	14.4	17.6
Coal	12	18	16	3.3	.5	.6	.5
Petroleum	6	6	5	-2	.2	.2	.2
Natural Gas	0	154	481	NM	.0	5.1	14.7
Hydroelectric	2,546	2,688	2,665	.5	94.0	89.3	81.7
Other Renewables	130	130	81	-5.1	4.8	4.3	2.5
Other	15	15	15	.0	.5	.5	.5
Total Electric Industry	2,708	3,011	3,264	2.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Idaho							
Petroleum	103	95	65	-5.0	0.0	0.0	0.0
Natural Gas	0	0	76,168	NM	.0	.0	.8
Hydroelectric	9,022,551	13,511,728	8,087,907	-1.2	85.7	86.7	82.6
Total Electric Utilities	9,022,654	13,511,823	8,164,140	-1.1	85.7	86.7	83.4
Coal	39,299	27,462	90,673	9.7	.4	.2	.9
Petroleum	329	11,651	0	NM	.0	.1	.0
Natural Gas	156,736	312,988	252,820	5.5	1.5	2.0	2.6
Hydroelectric	692,934	1,163,899	681,414	-2	6.6	7.5	7.0
Other Renewables	546,637	471,238	508,303	-8	5.2	3.0	5.2
Other	74,844	89,950	89,583	2.0	.7	.6	.9
Total IPP's & Combined Heat and Power	1,510,779	2,077,187	1,622,793	.8	14.3	13.3	16.6
Coal	39,299	27,462	90,673	9.7	.4	.2	.9
Petroleum	432	11,746	65	-19.0	.0	.1	.0
Natural Gas	156,736	312,988	328,988	8.6	1.5	2.0	3.4
Hydroelectric	9,715,485	14,675,627	8,769,321	-1.1	92.2	94.1	89.6
Other Renewables	546,637	471,238	508,303	-8	5.2	3.0	5.2
Other	74,844	89,950	89,583	2.0	.7	.6	.9
Total Electric Industry	10,533,433	15,589,010	9,786,933	-8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Idaho				
Average heat value (Btu per pound)	0	0	11,041	NM
Average heat value (Btu per gallon)	0	0	138,660	NM
Gas (2002 cents per million Btu) .....	.0	.0	298.1	NM
Average heat value (Btu per cubic foot)	0	0	1,003	NM

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Idaho				
Sulfur Dioxide				
Coal	1	1	3	7.1
Petroleum	0	*	0	NM
Gas	0	0	0	NM
Other	1	1	2	9.3
Total	2	2	5	8.1
Nitrogen Oxide				
Coal	*	*	1	7.7
Petroleum	0	*	0	NM
Gas	*	*	1	13.0
Other	*	*	1	6.6
Total	1	1	2	8.6
Carbon Dioxide				
Coal	75	39	129	6.3
Petroleum	*	9	*	-15.5
Gas	101	185	680	23.6
Total	176	233	809	18.4

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Idaho							
Retail Sales (thousand megawatthours)							
Residential.....	6,245	6,628	7,056	1.4	33.4	31.2	34.1
Commercial.....	4,969	5,969	6,963	3.8	26.5	28.1	33.6
Industrial.....	7,222	8,322	6,352	-1.4	38.6	39.2	30.7
Other.....	284	316	329	1.6	1.5	1.5	1.6
Total.....	18,720	21,235	20,700	1.1	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	347	351	465	3.3	41.7	41.6	40.2
Commercial.....	244	256	398	5.6	29.3	30.3	34.4
Industrial.....	226	222	276	2.2	27.1	26.3	23.9
Other.....	16	15	17	.8	1.9	1.8	1.5
Total.....	834	844	1,156	3.7	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	5.56	5.29	6.59	1.9	NA	NA	NA
Commercial.....	4.92	4.28	5.71	1.7	NA	NA	NA
Industrial.....	3.13	2.67	4.34	3.7	NA	NA	NA
Other.....	5.56	4.81	5.18	-.8	NA	NA	NA
Total.....	4.45	3.97	5.58	2.5	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Idaho						
Number of Entities.....	3	12	0	16	0	31
Number of Retail Customers.....	501,458	97,338	0	69,259	0	668,055
Retail Sales (thousand megawatthours).....	14,866	4,276	0	1,558	0	20,700
Percentage of Retail Sales.....	71.82	20.66	.00	7.52	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	899	161	0	95	0	1,156
Percentage of Revenue.....	77.83	13.97	.00	8.20	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.05	3.78	.00	6.08	0	5.58

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Illinois		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	44,712	4
Electric Utilities	4,150	36
Independent Power Producers & Combined Heat and Power	40,561	2
Net Generation (megawatthours)	188,054,449	4
Electric Utilities	17,149,913	36
Independent Power Producers & Combined Heat and Power	170,904,536	3
Emissions (thousand short tons)		
Sulfur Dioxide	405	11
Nitrogen Oxide	191	8
Carbon Dioxide	101,237	6
Sulfur Dioxide/sq. mile.....	7	15
Nitrogen Oxide/sq. mile.....	3	14
Carbon Dioxide/sq. mile.....	1,821	14
Utility and ESP Retail Electricity Sales (megawatthours).....	137,665,583	7
Utility Retail Electricity Sales (megawatthours)	121,879,478	9
ESP Retail Electricity Sales (megawatthours).....	15,786,105	4
Direct Use (megawatthours).....	1,704,013	21
Average Retail Price (cents/kWh).....	6.97	18

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Illinois			
1. Collins	Petroleum, Gas	Midwest Generations EME LLC	2,671
2. Braidwood Generation.....	Nuclear	Exelon Generation Co LLC	2,362
3. Byron Generating Stat	Nuclear	Exelon Generation Co LLC	2,356
4. LaSalle Generating St.....	Nuclear	Exelon Generation Co LLC	2,260
5. Baldwin Energy Comple	Petroleum, Other, Coal	Dynegy Midwest Generation Inc	1,761
6. Dresden Generating St.....	Nuclear	Exelon Generation Co LLC	1,700
7. Quad Cities Generatin	Nuclear	Exelon Generation Co LLC	1,617
8. Powerton	Gas, Coal	Midwest Generations EME LLC	1,538
9. Elwood Energy LLC	Gas	Dominion Elwood Services Co	1,350
10. Kincaid Generation LL.....	Gas, Coal	Dominion Energy Services Co	1,168

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Illinois					
A. Commonwealth Edison Company.....	73,835,297	27,474,341	25,517,175	13,016,569	7,827,212
B. Illinois Power Company	16,637,617	5,548,382	4,415,749	6,305,777	367,709
C. Central Illinois Pub Serv Co	10,468,874	3,154,750	2,771,546	4,397,805	144,773
D. Central Illinois Light Company	9,023,123	1,993,346	1,819,814	2,278,858	2,931,105
E. Exelon Energy Company	4,022,967	0	4,022,967	0	0
Total	113,987,878	38,170,819	38,547,251	25,999,009	11,270,799
Percentage of Utility Sales.....	83	85	86	73	95

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Illinois							
Coal	15,063	15,339	2,862	-16.9	45.1	44.5	6.4
Petroleum	2,630	2,314	297	-21.5	7.9	6.7	.7
Natural Gas	1,982	2,602	387	-16.6	5.9	7.5	.9
Dual Fired	472	673	593	2.6	1.4	2.0	1.3
Nuclear	12,609	12,609	0	NM	37.7	36.6	.0
Hydroelectric	12	13	12	-4	.0	.0	.0
Total Electric Utilities	32,769	33,549	4,151	-20.5	98.1	97.3	9.3
Coal	328	393	12,792	50.2	1.0	1.1	28.6
Petroleum	8	7	998	72.0	.0	.0	2.2
Natural Gas	169	275	11,495	59.8	.5	.8	25.7
Other Gases	55	45	40	-3.6	.2	.1	.1
Dual Fired	36	54	3,763	67.4	.1	.2	8.4
Nuclear	0	0	11,312	NM	.0	.0	25.3
Hydroelectric	18	21	9	-7.4	.1	.1	.0
Other Renewables	32	135	154	19.2	.1	.4	.3
Total IPP's & Combined Heat and Power	646	929	40,561	58.4	1.9	2.7	90.7
Coal	15,391	15,732	15,654	.2	46.1	45.6	35.0
Petroleum	2,638	2,320	1,295	-7.6	7.9	6.7	2.9
Natural Gas	2,151	2,877	11,881	20.9	6.4	8.3	26.6
Other Gases	55	45	40	-3.6	.2	.1	.1
Dual Fired	509	727	4,356	26.9	1.5	2.1	9.7
Nuclear	12,609	12,609	11,312	-1.2	37.7	36.6	25.3
Hydroelectric	30	34	21	-4.0	.1	.1	.0
Other Renewables	32	135	154	19.2	.1	.4	.3
Total Electric Industry	33,415	34,478	44,712	3.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Illinois							
Coal	59,764,568	76,091,528	16,897,445	-13.1	41.7	56.3	9.0
Petroleum	719,130	495,250	34,464	-28.6	.5	.4	.0
Natural Gas	1,184,217	3,442,363	161,134	-19.9	.8	2.5	.1
Nuclear	78,373,458	51,068,818	0	NM	54.6	37.8	.0
Hydroelectric	39,647	16,773	56,870	4.1	.0	.0	.0
Other Renewables	0	23,595	0	NM	.0	.0	.0
Total Electric Utilities	140,081,020	131,138,327	17,149,913	-20.8	97.6	97.0	9.1
Coal	1,725,747	2,029,739	69,787,902	50.8	1.2	1.5	37.1
Petroleum	14,962	32,672	188,219	32.5	.0	.0	.1
Natural Gas	942,393	840,242	8,917,601	28.4	.7	.6	4.7
Other Gases	347,139	361,119	232,850	-4.3	.2	.3	.1
Nuclear	0	0	90,860,108	NM	.0	.0	48.3
Hydroelectric	90,548	80,401	71,952	-2.5	.1	.1	.0
Other Renewables	251,281	658,269	845,361	14.4	.2	.5	.4
Other	0	0	543	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	3,372,071	4,002,442	170,904,536	54.7	2.4	3.0	90.9
Coal	61,490,315	78,121,267	86,685,347	3.9	42.9	57.8	46.1
Petroleum	734,092	527,922	222,683	-12.4	.5	.4	.1
Natural Gas	2,126,610	4,282,605	9,078,735	17.5	1.5	3.2	4.8
Other Gases	347,139	361,119	232,850	-4.3	.2	.3	.1
Nuclear	78,373,458	51,068,818	90,860,108	1.7	54.6	37.8	48.3
Hydroelectric	130,195	97,174	128,822	-.1	.1	.1	.1
Other Renewables	251,281	681,864	845,361	14.4	.2	.5	.4
Other	0	0	543	NM	.0	.0	.0
Total Electric Industry	143,453,091	135,140,769	188,054,449	3.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Illinois				
Coal (2002 cents per million Btu)	189.9	159.8	118.5	-5.1
Average heat value (Btu per pound)	10,362	9,781	9,151	-1.4
Average sulfur Content(percent)	1.6	1.2	.7	-9.0
Petroleum (2002 cents per million Btu)	331.0	317.6	524.5	5.2
Average heat value (Btu per gallon)	148,695	126,779	146,974	-.1
Average sulfur Content(percent) .....	.7	2.1	.1	-16.1
Gas (2002 cents per million Btu)	272.5	258.3	342.7	2.6
Average heat value (Btu per cubic foot)	1,016	1,016	988	-.3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Illinois				
Sulfur Dioxide				
Coal	823	840	403	-7.6
Petroleum	4	2	1	-15.0
Gas.....	0	0	*	NM
Other.....	*	*	1	34.0
Total	828	842	405	-7.6
Nitrogen Oxide				
Coal	307	316	180	-5.8
Petroleum	1	1	*	-20.2
Gas.....	5	6	6	1.1
Other.....	1	2	4	14.3
Total	315	325	191	-5.4
Carbon Dioxide				
Coal	69,840	86,587	95,743	3.6
Petroleum	1,120	597	225	-16.3
Gas.....	1,731	3,270	5,269	13.2
Other.....	*	30	0	NM
Total	72,692	90,483	101,237	3.8

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Illinois							
Retail Sales (thousand megawatthours)							
Residential.....	35,226	37,246	45,030	2.8	29.9	29.5	32.7
Commercial.....	34,355	38,136	44,957	3.0	29.2	30.2	32.7
Industrial	40,249	42,375	35,802	-1.3	34.2	33.5	26.0
Other	7,956	8,692	11,876	4.5	6.8	6.9	8.6
Total	117,786	126,449	137,666	1.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	4,034	3,994	3,778	-.7	39.7	39.9	39.4
Commercial.....	3,062	3,107	3,367	1.1	30.1	31.0	35.1
Industrial	2,443	2,305	1,792	-3.4	24.0	23.0	18.7
Other	623	611	660	.6	6.1	6.1	6.9
Total	10,162	10,016	9,597	-.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	11.45	10.72	8.39	-3.4	NA	NA	NA
Commercial.....	8.91	8.15	7.49	-1.9	NA	NA	NA
Industrial	6.07	5.44	5.01	-2.1	NA	NA	NA
Other	7.83	7.03	5.56	-3.7	NA	NA	NA
Total	8.63	7.92	6.97	-2.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Illinois						
Number of Entities.....	7	43	0	27	10	87
Number of Retail Customers.....	4,792,092	346,388	0	255,106	10,655	5,404,241
Retail Sales (thousand megawatthours).....	108,511	8,769	0	4,600	15,786	137,666
Percentage of Retail Sales.....	78.82	6.37	.00	3.34	11.47	100.00
Revenue from Retail Sales (million 2002 dollars).....	7,924	552	0	406	715	9,597
Percentage of Revenue.....	82.57	5.75	.00	4.23	7.45	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.30	6.29	.00	8.82	0	6.97

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Indiana		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	25,252	14
Electric Utilities	20,802	10
Independent Power Producers & Combined Heat and Power	4,450	16
Net Generation (megawatthours)	125,608,139	10
Electric Utilities	112,029,989	6
Independent Power Producers & Combined Heat and Power	13,578,150	18
Emissions (thousand short tons)		
Sulfur Dioxide	786	3
Nitrogen Oxide.....	354	2
Carbon Dioxide.....	129,912	4
Sulfur Dioxide/sq. mile.....	22	3
Nitrogen Oxide/sq. mile.....	10	4
Carbon Dioxide/sq. mile.....	3,622	3
Utility and ESP Retail Electricity Sales (megawatthours).....	101,428,550	11
Utility Retail Electricity Sales (megawatthours)	101,428,550	11
Direct Use (megawatthours).....	4,594,016	10
Average Retail Price (cents/kWh).....	5.34	48

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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	1,702
5. Clifty Creek	Petroleum, Coal	Indiana-Kentucky Electric Corp	1,235
6. Cayuga	Petroleum, Gas, Coal	PSI Energy Inc	1,104
7. Harding Street.....	Petroleum, Gas, Coal	Indianapolis Power & Light Co	1,102
8. Merom.....	Petroleum, Coal	Hoosier Energy R E C Inc	1,000
9. Tanners Creek.....	Petroleum, Coal	Indiana Michigan Power Co	980
10. Wabash River.....	Petroleum, Gas, Coal	PSI Energy Inc	936

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Indiana					
A. PSI Energy, Inc.....	27,272,584	8,483,853	7,131,102	11,587,870	69,759
B. Indiana Michigan Power Co.....	15,916,602	4,581,098	4,144,351	7,118,111	73,042
C. Northern Indiana Pub Serv Co.....	15,792,412	3,228,343	3,618,327	8,822,406	123,336
D. Indianapolis Power & Light Co.....	14,446,437	4,938,673	2,018,031	7,417,297	72,436
E. Southern Indiana Gas & Elec Co.....	5,569,447	1,567,215	1,467,781	2,516,335	18,116
Total	78,997,482	22,799,182	18,379,592	37,462,019	356,689
Percentage of Utility Sales.....	78	72	84	79	61

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Indiana							
Coal	19,542	18,426	18,530	-0.6	90.2	87.6	73.4
Petroleum	480	486	473	-2	2.2	2.3	1.9
Natural Gas	172	297	1,051	22.3	.8	1.4	4.2
Other Gases	0	143	0	NM	.0	.7	.0
Dual Fired	638	790	690	.9	2.9	3.8	2.7
Hydroelectric	69	59	59	-1.8	.3	.3	.2
Total Electric Utilities	20,901	20,200	20,802	-1	96.5	96.0	82.4
Coal	206	185	1,410	23.8	1.0	.9	5.6
Petroleum	7	9	9	2.0	.0	.0	.0
Natural Gas	165	102	2,301	34.0	.8	.5	9.1
Other Gases	286	428	525	7.0	1.3	2.0	2.1
Dual Fired	96	96	185	7.5	.4	.5	.7
Other Renewables	6	17	21	14.7	.0	.1	.1
Total IPP's & Combined Heat and Power	767	838	4,450	21.6	3.5	4.0	17.6
Coal	19,748	18,611	19,940	.1	91.1	88.5	79.0
Petroleum	487	495	482	-1	2.2	2.4	1.9
Natural Gas	337	399	3,352	29.1	1.6	1.9	13.3
Other Gases	286	571	525	7.0	1.3	2.7	2.1
Dual Fired	734	886	875	2.0	3.4	4.2	3.5
Hydroelectric	69	59	59	-1.8	.3	.3	.2
Other Renewables	6	17	21	14.7	.0	.1	.1
Total Electric Industry	21,668	21,039	25,252	1.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Indiana							
Coal	98,776,088	108,911,799	109,441,044	1.1	95.3	94.9	87.1
Petroleum	197,848	606,905	470,976	10.1	.2	.5	.4
Natural Gas	528,813	385,994	1,706,699	13.9	.5	.3	1.4
Hydroelectric	448,400	561,593	411,270	-1.0	.4	.5	.3
Total Electric Utilities	99,951,149	110,466,291	112,029,989	1.3	96.4	96.3	89.2
Coal	900,865	1,139,863	8,218,656	27.8	.9	1.0	6.5
Petroleum	174,428	156,242	146,156	-1.9	.2	.1	.1
Natural Gas	445,785	847,108	2,075,753	18.6	.4	.7	1.7
Other Gases	2,130,459	1,995,347	3,005,998	3.9	2.1	1.7	2.4
Other Renewables	32,454	124,056	131,588	16.8	.0	.1	.1
Total IPP's & Combined Heat and Power	3,683,990	4,262,616	13,578,150	15.6	3.6	3.7	10.8
Coal	99,676,953	110,051,662	117,659,700	1.9	96.2	95.9	93.7
Petroleum	372,276	763,147	617,132	5.8	.4	.7	.5
Natural Gas	974,598	1,233,102	3,782,452	16.3	.9	1.1	3.0
Other Gases	2,130,459	1,995,347	3,005,998	3.9	2.1	1.7	2.4
Hydroelectric	448,400	561,593	411,270	-1.0	.4	.5	.3
Other Renewables	32,454	124,056	131,588	16.8	.0	.1	.1
Total Electric Industry	103,635,139	114,728,907	125,608,139	2.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Indiana				
Coal (2002 cents per million Btu)	141.4	119.6	117.3	-2.0
Average heat value (Btu per pound).....	10,539	10,461	10,326	-.2
Average sulfur Content(percent)	1.8	1.6	1.5	-2.0
Petroleum (2002 cents per million Btu)	406.5	154.0	208.1	-7.2
Average heat value (Btu per gallon).....	126,977	81,176	139,717	1.1
Average sulfur Content(percent)	5.0	4.1	2.0	-9.7
Gas (2002 cents per million Btu).....	305.1	325.0	323.5	.6
Average heat value (Btu per cubic foot).....	1,013	1,021	1,023	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Indiana				
Sulfur Dioxide				
Coal	1,266	998	785	-5.2
Petroleum	*	1	1	10.0
Gas.....	*	*	*	-.7
Other.....	*	*	*	-1.5
Total	1,266	999	786	-5.2
Nitrogen Oxide				
Coal	487	393	282	-5.9
Petroleum	*	*	*	-13.3
Gas.....	64	51	72	1.2
Other.....	*	*	1	25.8
Total	552	445	354	-4.8
Carbon Dioxide				
Coal	106,604	118,479	124,932	1.8
Petroleum	395	865	600	4.8
Gas.....	2,941	2,385	4,375	4.5
Other.....	7	7	6	-1.8
Total	109,946	121,736	129,912	1.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Indiana							
Retail Sales (thousand megawatthours)							
Residential.....	24,978	26,550	31,568	2.6	30.5	29.8	31.1
Commercial.....	17,015	18,514	21,790	2.8	20.8	20.8	21.5
Industrial.....	39,415	43,550	47,481	2.1	48.1	48.8	46.8
Other.....	523	533	589	1.3	.6	.6	.6
Total.....	81,931	89,147	101,429	2.4	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,856	1,895	2,183	1.8	39.3	39.1	40.3
Commercial.....	1,104	1,149	1,303	1.9	23.4	23.7	24.0
Industrial.....	1,705	1,748	1,877	1.1	36.1	36.1	34.6
Other.....	52	52	57	1.0	1.1	1.1	1.1
Total.....	4,718	4,843	5,420	1.5	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.43	7.14	6.91	-8	NA	NA	NA
Commercial.....	6.49	6.20	5.98	-9	NA	NA	NA
Industrial.....	4.32	4.01	3.95	-10	NA	NA	NA
Other.....	10.02	9.70	9.75	-3	NA	NA	NA
Total.....	5.76	5.43	5.34	-8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Indiana						
Number of Entities.....	6	72	0	41	0	119
Number of Retail Customers.....	2,196,525	253,693	0	484,458	0	2,934,676
Retail Sales (thousand megawatthours).....	83,449	7,696	0	10,283	0	101,429
Percentage of Retail Sales.....	82.27	7.59	.00	10.14	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	4,338	392	0	690	0	5,420
Percentage of Revenue.....	80.04	7.23	.00	12.74	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.20	5.09	.00	6.71	0	5.34

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Iowa		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	9,338	33
Electric Utilities	8,407	27
Independent Power Producers & Combined Heat and Power	931	39
Net Generation (megawatthours)	42,528,385	33
Electric Utilities	40,051,665	27
Independent Power Producers & Combined Heat and Power	2,476,720	40
Emissions (thousand short tons)		
Sulfur Dioxide	148	22
Nitrogen Oxide.....	86	26
Carbon Dioxide.....	42,069	25
Sulfur Dioxide/sq. mile.....	3	26
Nitrogen Oxide/sq. mile.....	2	26
Carbon Dioxide/sq. mile.....	753	29
Utility and ESP Retail Electricity Sales (megawatthours).....	40,897,543	31
Utility Retail Electricity Sales (megawatthours)	40,897,543	31
Direct Use (megawatthours).....	1,350,932	23
Average Retail Price (cents/kWh).....	6.01	33

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Iowa			
1. George Neal North	Gas, Coal	MidAmerican Energy Co	950
2. Council Bluffs.....	Gas, Petroleum, Coal	MidAmerican Energy Co	806
3. Ottumwa.....	Petroleum, Coal	Interstate Power and Light	720
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	566
7. Lansing	Petroleum, Coal	Interstate Power and Light	319
8. Burlington	Gas, Coal	Interstate Power and Light	285
9. Archer Daniels Midlan	Coal	Archer Daniels Midland Co	260
10. Milton L Kapp	Gas, Coal	Interstate Power and Light	236

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Iowa					
A. MidAmerican Energy Company	16,389,557	4,759,645	3,445,081	5,995,047	2,189,784
B. Interstate Power & Light Co.....	14,375,098	3,787,754	3,199,333	7,316,726	71,285
C. Eastern Iowa Light&Power Coop	1,203,905	261,867	32,278	906,201	3,559
D. Muscatine Power and Water	826,189	99,460	147,408	554,931	24,390
E. City of Ames.....	577,353	145,094	204,330	127,960	99,969
Total	33,372,102	9,053,820	7,028,430	14,900,865	2,388,987
Percentage of Utility Sales.....	82	70	80	90	91

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Iowa							
Coal	5,818	5,573	5,620	-0.4	68.6	64.9	60.2
Petroleum	508	660	846	5.8	6.0	7.7	9.1
Natural Gas	162	152	104	-4.8	1.9	1.8	1.1
Dual Fired	946	974	1,036	1.0	11.1	11.3	11.1
Nuclear	515	535	566	1.0	6.1	6.2	6.1
Hydroelectric	125	136	129	.4	1.5	1.6	1.4
Other Renewables	*	*	107	122.4	.0	.0	1.1
Other	0	209	0	NM	.0	2.4	.0
Total Electric Utilities	8,074	8,238	8,407	.5	95.1	95.9	90.0
Coal	259	268	419	5.5	3.1	3.1	4.5
Petroleum	80	69	82	.4	.9	.8	.9
Natural Gas	*	*	4	27.7	.0	.0	.0
Dual Fired	64	3	0	NM	.8	.0	.0
Hydroelectric	5	5	2	-9.5	.1	.1	.0
Other Renewables	5	8	422	64.1	.1	.1	4.5
Total IPP's & Combined Heat and Power	413	353	931	9.4	4.9	4.1	10.0
Coal	6,077	5,840	6,039	-.1	71.6	68.0	64.7
Petroleum	587	729	929	5.2	6.9	8.5	9.9
Natural Gas	163	152	108	-4.4	1.9	1.8	1.2
Dual Fired	1,010	977	1,036	.3	11.9	11.4	11.1
Nuclear	515	535	566	1.0	6.1	6.2	6.1
Hydroelectric	130	141	131	.1	1.5	1.6	1.4
Other Renewables	5	8	529	68.0	.1	.1	5.7
Other	0	209	0	NM	.0	2.4	.0
Total Electric Industry	8,487	8,591	9,338	1.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Iowa							
Coal	26,642,524	28,739,404	34,033,119	2.8	83.1	81.1	80.0
Petroleum	49,511	81,984	55,552	1.3	.2	.2	.1
Natural Gas	308,065	276,627	406,796	3.1	1.0	.8	1.0
Nuclear	3,235,009	4,149,111	4,573,958	3.9	10.1	11.7	10.8
Hydroelectric	737,023	794,739	936,689	2.7	2.3	2.2	2.2
Other Renewables	19,558	22,478	45,552	9.8	.1	.1	.1
Total Electric Utilities	30,991,690	34,064,343	40,051,665	2.9	96.7	96.2	94.2
Coal	889,120	1,093,821	1,338,939	4.7	2.8	3.1	3.1
Petroleum	7,415	8,208	8,312	1.3	.0	.0	.0
Natural Gas	140,924	161,064	147,924	.5	.4	.5	.3
Hydroelectric	10,159	10,205	9,695	-.5	.0	.0	.0
Other Renewables	9,705	81,298	971,850	66.8	.0	.2	2.3
Total IPP's & Combined Heat and Power	1,057,323	1,354,596	2,476,720	9.9	3.3	3.8	5.8
Coal	27,531,644	29,833,225	35,372,058	2.8	85.9	84.2	83.2
Petroleum	56,926	90,192	63,864	1.3	.2	.3	.2
Natural Gas	448,989	437,691	554,719	2.4	1.4	1.2	1.3
Nuclear	3,235,009	4,149,111	4,573,958	3.9	10.1	11.7	10.8
Hydroelectric	747,182	804,944	946,384	2.7	2.3	2.3	2.2
Other Renewables	29,263	103,776	1,017,402	48.3	.1	.3	2.4
Total Electric Industry	32,049,013	35,418,939	42,528,385	3.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Iowa				
Coal (2002 cents per million Btu)	112.8	96.3	88.8	-2.6
Average heat value (Btu per pound)	8,660	8,662	8,860	.3
Average sulfur Content(percent) .....	.5	.4	.4	-3.1
Petroleum (2002 cents per million Btu)	141.3	144.9	579.0	17.0
Average heat value (Btu per gallon)	83,080	83,517	137,281	5.7
Average sulfur Content(percent)	5.1	5.6	*	-49.9
Gas (2002 cents per million Btu)	345.8	349.2	386.6	1.2
Average heat value (Btu per cubic foot)	1,006	1,003	1,015	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Iowa				
Sulfur Dioxide				
Coal	184	159	148	-2.4
Petroleum	6	9	*	-42.0
Gas.....	0	0	0	NM
Other.....	*	1	0	NM
Total	190	169	148	-2.7
Nitrogen Oxide				
Coal	144	79	85	-5.7
Petroleum	1	1	*	-33.5
Gas.....	1	1	1	.2
Other.....	*	1	*	3.0
Total	146	82	86	-5.7
Carbon Dioxide				
Coal	31,721	34,784	41,458	3.0
Petroleum	63	107	69	1.1
Gas.....	397	444	542	3.5
Other.....	*	0	0	NM
Total	32,181	35,335	42,069	3.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Iowa							
Retail Sales (thousand megawatthours)							
Residential.....	11,103	11,673	12,921	1.7	34.6	32.3	31.6
Commercial.....	7,269	7,594	8,803	2.1	22.6	21.0	21.5
Industrial	12,465	15,531	16,548	3.2	38.8	43.0	40.5
Other	1,267	1,350	2,626	8.4	3.9	3.7	6.4
Total	32,104	36,148	40,898	2.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	992	985	1,079	.9	46.5	44.4	43.9
Commercial.....	515	516	578	1.3	24.1	23.3	23.5
Industrial	545	631	672	2.4	25.5	28.5	27.3
Other	83	84	129	5.1	3.9	3.8	5.3
Total	2,134	2,216	2,458	1.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.93	8.43	8.35	-.7	NA	NA	NA
Commercial.....	7.09	6.80	6.56	-.8	NA	NA	NA
Industrial	4.37	4.06	4.06	-.8	NA	NA	NA
Other	6.52	6.26	4.92	-3.1	NA	NA	NA
Total	6.65	6.13	6.01	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Iowa						
Number of Entities	3	138	0	43	0	184
Number of Retail Customers	1,058,715	200,267	0	200,997	0	1,459,979
Retail Sales (thousand megawatthours).....	30,852	4,978	0	5,067	0	40,898
Percentage of Retail Sales.....	75.44	12.17	.00	12.39	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	1,828	282	0	348	0	2,458
Percentage of Revenue.....	74.35	11.47	.00	14.18	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.92	5.67	.00	6.88	0	6.01

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Kansas		
NERC Region(s).....		SPP/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	10,396	31
Electric Utilities	10,244	23
Independent Power Producers & Combined Heat and Power	152	48
Net Generation (megawatthours)	47,188,446	28
Electric Utilities	46,691,936	22
Independent Power Producers & Combined Heat and Power	496,510	47
Emissions (thousand short tons)		
Sulfur Dioxide	130	24
Nitrogen Oxide	95	21
Carbon Dioxide	43,523	24
Sulfur Dioxide/sq. mile.....	2	31
Nitrogen Oxide/sq. mile.....	1	31
Carbon Dioxide/sq. mile.....	532	33
Utility and ESP Retail Electricity Sales (megawatthours).....	36,713,540	32
Utility Retail Electricity Sales (megawatthours)	36,713,540	32
Direct Use (megawatthours).....	7,994	42
Average Retail Price (cents/kWh).....	6.31	25

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Kansas			
1. Jeffrey Energy Center.....	Petroleum, Coal	Western Resources Inc	2,212
2. La Cygne.....	Petroleum, Coal	Kansas City Power & Light Co	1,362
3. Wolf Creek Generating	Nuclear	Wolf Creek Nuclear Optg Corp	1,170
4. Gordon Evans Energy C	Petroleum, Gas	Kansas Gas & Electric Co	833
5. Lawrence Energy Cente	Gas, Coal	Western Resources Inc	598
6. Hutchinson Energy Cen.....	Petroleum, Gas	Western Resources Inc	478
7. Holcomb.....	Gas, Coal	Sunflower Electric Power Corp	360
8. Murray Gill	Petroleum, Gas	Kansas Gas & Electric Co	323
9. Quindaro.....	Petroleum, Gas, Coal	Kansas City City of	316
10. Tecumseh Energy Cente.....	Gas, Coal	Western Resources Inc	284

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Kansas					
A. Western Resources, Inc	9,539,068	3,281,055	4,141,584	2,053,967	62,462
B. Kansas Gas & Electric Company.....	9,005,365	2,889,469	2,675,312	3,396,771	43,813
C. Kansas City Power & Light Co	5,771,059	2,550,772	2,826,563	374,782	18,942
D. Board of Public Utilities	2,271,425	568,601	806,032	822,335	74,457
E. UtiliCorp United, Inc	1,831,780	489,924	558,259	760,050	23,547
Total	28,418,697	9,779,821	11,007,750	7,407,905	223,221
Percentage of Utility Sales.....	77	77	82	73	59

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Kansas							
Coal	5,189	5,364	5,310	0.3	53.2	54.5	51.1
Petroleum	214	216	265	2.4	2.2	2.2	2.5
Natural Gas	532	378	590	1.1	5.5	3.8	5.7
Dual Fired	2,637	2,666	2,910	1.1	27.0	27.1	28.0
Nuclear	1,134	1,163	1,170	.3	11.6	11.8	11.3
Other Renewables	*	0	0	NM	.0	.0	.0
Total Electric Utilities	9,706	9,786	10,244	.6	99.5	99.5	98.5
Petroleum	4	4	4	.2	.0	.0	.0
Natural Gas	1	6	29	42.3	.0	.1	.3
Dual Fired	37	37	4	-22.5	.4	.4	.0
Hydroelectric	2	2	2	.6	.0	.0	.0
Other Renewables	0	0	112	NM	.0	.0	1.1
Total IPP's & Combined Heat and Power	44	49	152	14.6	.5	.5	1.5
Coal	5,189	5,364	5,310	.3	53.2	54.5	51.1
Petroleum	218	220	269	2.4	2.2	2.2	2.6
Natural Gas	533	383	619	1.7	5.5	3.9	6.0
Dual Fired	2,674	2,703	2,914	1.0	27.4	27.5	28.0
Nuclear	1,134	1,163	1,170	.3	11.6	11.8	11.3
Hydroelectric	2	2	2	.6	.0	.0	.0
Other Renewables	*	0	112	135.6	.0	.0	1.1
Total Electric Industry	9,750	9,836	10,396	.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Kansas							
Coal	26,799,665	27,235,875	35,369,189	3.1	72.9	71.8	75.0
Petroleum	76,463	109,885	508,857	23.4	.2	.3	1.1
Natural Gas	1,656,848	2,067,501	1,772,188	.8	4.5	5.5	3.8
Nuclear	7,899,543	8,430,455	9,041,702	1.5	21.5	22.2	19.2
Other Renewables	58	0	0	NM	.0	.0	.0
Total Electric Utilities	36,432,577	37,843,716	46,691,936	2.8	99.2	99.8	98.9
Petroleum	19,400	878	222	-39.2	.1	.0	.0
Natural Gas	285,606	59,010	16,864	-27.0	.8	.2	.0
Hydroelectric	4,985	13,881	12,746	11.0	.0	.0	.0
Other Renewables	0	0	466,679	NM	.0	.0	1.0
Total IPP's & Combined Heat and Power	309,990	73,769	496,510	5.4	.8	.2	1.1
Coal	26,799,665	27,235,875	35,369,189	3.1	72.9	71.8	75.0
Petroleum	95,863	110,763	509,078	20.4	.3	.3	1.1
Natural Gas	1,942,454	2,126,511	1,789,052	-9	5.3	5.6	3.8
Nuclear	7,899,543	8,430,455	9,041,702	1.5	21.5	22.2	19.2
Hydroelectric	4,985	13,881	12,746	11.0	.0	.0	.0
Other Renewables	58	0	466,679	171.6	.0	.0	1.0
Total Electric Industry	36,742,567	37,917,485	47,188,446	2.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Kansas				
Coal (2002 cents per million Btu)	113.9	105.0	98.3	-1.6
Average heat value (Btu per pound).....	8,654	8,766	8,548	-.1
Average sulfur Content(percent) .....	.4	.5	.4	.3
Petroleum (2002 cents per million Btu)	448.6	289.9	272.7	-5.4
Average heat value (Btu per gallon).....	138,636	154,118	152,240	1.0
Average sulfur Content(percent)	1.7	1.1	1.6	-.8
Gas (2002 cents per million Btu).....	258.7	265.5	309.4	2.0
Average heat value (Btu per cubic foot).....	975	978	1,000	.3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Kansas				
Sulfur Dioxide				
Coal	70	108	124	6.6
Petroleum	*	1	5	31.5
Gas.....	0	0	0	NM
Total	71	109	130	7.0
Nitrogen Oxide				
Coal	116	78	91	-2.7
Petroleum	*	*	1	28.5
Gas.....	3	4	3	-.3
Total	120	83	95	-2.5
Carbon Dioxide				
Coal	31,540	32,472	41,781	3.2
Petroleum	105	127	504	19.1
Gas.....	1,363	1,526	1,238	-1.1
Total	33,007	34,126	43,523	3.1

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Kansas							
Retail Sales (thousand megawatthours)							
Residential.....	9,986	10,862	12,745	2.8	34.7	33.7	34.7
Commercial.....	9,753	11,424	13,392	3.6	33.9	35.4	36.5
Industrial.....	8,702	9,365	10,195	1.8	30.2	29.0	27.8
Other.....	367	618	381	.4	1.3	1.9	1.0
Total.....	28,808	32,270	36,714	2.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	875	860	977	1.2	41.3	41.1	42.2
Commercial.....	728	759	841	1.6	34.4	36.3	36.3
Industrial.....	479	434	462	-.4	22.6	20.8	19.9
Other.....	36	38	35	-.3	1.7	1.8	1.5
Total.....	2,119	2,092	2,315	1.0	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.76	7.92	7.67	-1.5	NA	NA	NA
Commercial.....	7.47	6.64	6.28	-1.9	NA	NA	NA
Industrial.....	5.51	4.64	4.53	-2.1	NA	NA	NA
Other.....	9.93	6.14	9.30	-7	NA	NA	NA
Total.....	7.35	6.48	6.31	-1.7	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Kansas						
Number of Entities.....	4	124	0	26	0	154
Number of Retail Customers.....	865,469	340,274	0	173,604	0	1,379,347
Retail Sales (thousand megawatthours).....	24,338	9,133	0	3,242	0	36,714
Percentage of Retail Sales.....	66.29	24.88	.00	8.83	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,464	578	0	274	0	2,315
Percentage of Revenue.....	63.24	24.94	.00	11.82	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.02	6.32	.00	8.44	0	6.31

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Kentucky		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,122	20
Electric Utilities	15,418	16
Independent Power Producers & Combined Heat and Power	3,704	20
Net Generation (megawatthours).....	92,106,668	19
Electric Utilities	80,161,524	13
Independent Power Producers & Combined Heat and Power	11,945,144	21
Emissions (thousand short tons)		
Sulfur Dioxide	485	8
Nitrogen Oxide	199	7
Carbon Dioxide	95,879	7
Sulfur Dioxide/sq. mile.....	12	9
Nitrogen Oxide/sq. mile.....	5	9
Carbon Dioxide/sq. mile.....	2,413	12
Utility and ESP Retail Electricity Sales (megawatthours).....	87,266,835	14
Utility Retail Electricity Sales (megawatthours)	87,266,835	14
Direct Use (megawatthours).....	438,767	31
Average Retail Price (cents/kWh).....	4.26	51

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Kentucky			
1. Paradise	Petroleum, Coal	Tennessee Valley Authority	2,159
2. Ghent.....	Petroleum, Coal	Kentucky Utilities Co	1,966
3. E W Brown.....	Petroleum, Gas, Coal	Kentucky Utilities Co	1,663
4. Mill Creek.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	1,485
5. Shawnee.....	Petroleum, Coal	Tennessee Valley Authority	1,330
6. Big Sandy.....	Petroleum, Coal	Kentucky Power Co	1,060
7. H L Spurlock	Petroleum, Coal	East Kentucky Power Coop Inc	850
8. Trimble County.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	822
9. East Bend.....	Petroleum, Coal	Cincinnati Gas & Electric Co	600
10. Cane Run.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	577

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Kentucky					
A. Kentucky Utilities Company	16,731,361	5,784,469	3,974,238	5,504,635	1,468,019
B. Tennessee Valley Authority	12,497,936	0	0	12,468,308	29,628
C. Louisville Gas & Electric Co.....	11,810,125	4,035,725	3,492,517	3,028,490	1,253,393
D. Kenergy Corporation	9,299,459	704,769	231,655	8,319,315	43,720
E. Kentucky Power Company	6,961,064	2,468,625	1,327,062	3,154,026	11,351
Total	57,299,945	12,993,588	9,025,472	32,474,774	2,806,111
Percentage of Utility Sales.....	66	51	61	74	83

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Kentucky							
Coal	14,093	14,135	12,496	-1.3	92.1	90.2	65.3
Petroleum	134	134	70	-7.0	.9	.9	.4
Natural Gas	207	92	673	14.0	1.4	.6	3.5
Dual Fired	68	508	1,358	39.5	.4	3.2	7.1
Hydroelectric	795	791	821	.4	5.2	5.0	4.3
Total Electric Utilities	15,297	15,660	15,419	.1	100.0	100.0	80.6
Coal	0	0	1,716	NM	.0	.0	9.0
Natural Gas	0	0	1,328	NM	.0	.0	6.9
Dual Fired	0	0	609	NM	.0	.0	3.2
Other Renewables	0	4	51	NM	.0	.0	.3
Total IPP's & Combined Heat and Power	0	4	3,704	NM	.0	.0	19.4
Coal	14,093	14,135	14,212	.1	92.1	90.2	74.3
Petroleum	134	134	70	-7.0	.9	.9	.4
Natural Gas	207	92	2,001	28.7	1.4	.6	10.5
Dual Fired	68	508	1,967	45.3	.4	3.2	10.3
Hydroelectric	795	791	821	.4	5.2	5.0	4.3
Other Renewables	0	4	51	NM	.0	.0	.3
Total Electric Industry	15,297	15,663	19,123	2.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Kentucky							
Coal	81,722,246	87,875,331	75,308,162	-0.9	96.1	96.0	81.8
Petroleum	96,727	125,625	135,412	3.8	.1	.1	.1
Natural Gas	23,632	176,857	693,201	45.6	.0	.2	.8
Hydroelectric	3,155,113	3,380,233	4,024,749	2.7	3.7	3.7	4.4
Total Electric Utilities	84,997,718	91,558,046	80,161,524	-6	100.0	100.0	87.0
Coal	0	0	7,966,084	NM	.0	.0	8.6
Petroleum	0	0	2,933,086	NM	.0	.0	3.2
Natural Gas	0	0	680,509	NM	.0	.0	.7
Other Renewables	0	14,049	365,465	NM	.0	.0	.4
Total IPP's & Combined Heat and Power	0	14,049	11,945,144	NM	.0	.0	13.0
Coal	81,722,246	87,875,331	83,274,246	.2	96.1	96.0	90.4
Petroleum	96,727	125,625	3,068,498	46.8	.1	.1	3.3
Natural Gas	23,632	176,857	1,373,710	57.1	.0	.2	1.5
Hydroelectric	3,155,113	3,380,233	4,024,749	2.7	3.7	3.7	4.4
Other Renewables	0	14,049	365,465	NM	.0	.0	.4
Total Electric Industry	84,997,718	91,572,095	92,106,668	.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Kentucky				
Coal (2002 cents per million Btu)	130.0	107.5	118.8	-1.0
Average heat value (Btu per pound)	11,697	11,571	11,513	-2
Average sulfur Content(percent)	2.4	2.5	2.2	-1.1
Petroleum (2002 cents per million Btu)	227.5	371.2	464.6	8.3
Average heat value (Btu per gallon)	90,576	116,977	133,017	4.4
Average sulfur Content(percent)	5.4	4.8	1.0	-16.7
Gas (2002 cents per million Btu).....	335.7	346.7	351.2	.5
Average heat value (Btu per cubic foot).....	1,020	1,023	1,023	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Kentucky				
Sulfur Dioxide				
Coal	979	671	471	-7.8
Petroleum	*	*	12	59.2
Gas.....	0	0	*	NM
Other.....	0	0	2	NM
Total	979	671	485	-7.5
Nitrogen Oxide				
Coal	356	365	192	-6.6
Petroleum	*	*	6	58.9
Gas.....	*	*	1	48.9
Other.....	0	*	1	NM
Total	356	365	199	-6.2
Carbon Dioxide				
Coal	83,468	90,024	90,567	.9
Petroleum	100	124	4,439	52.4
Gas.....	16	130	874	56.0
Total	83,584	90,279	95,879	1.5

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Kentucky							
Retail Sales (thousand megawatthours)							
Residential.....	19,223	20,998	25,347	3.1	28.2	27.3	29.0
Commercial.....	9,829	12,169	14,745	4.6	14.4	15.8	16.9
Industrial.....	36,320	40,600	43,812	2.1	53.3	52.8	50.2
Other.....	2,777	3,069	3,362	2.1	4.1	4.0	3.8
Total.....	68,149	76,836	87,267	2.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,221	1,205	1,431	1.8	37.2	37.8	38.5
Commercial.....	579	662	782	3.4	17.6	20.8	21.0
Industrial.....	1,334	1,170	1,353	.1	40.7	36.8	36.3
Other.....	145	146	155	.8	4.4	4.6	4.2
Total.....	3,279	3,183	3,721	1.4	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	6.35	5.74	5.65	-1.3	NA	NA	NA
Commercial.....	5.89	5.44	5.30	-1.1	NA	NA	NA
Industrial.....	3.67	2.88	3.09	-1.9	NA	NA	NA
Other.....	5.21	4.77	4.61	-1.4	NA	NA	NA
Total.....	4.81	4.14	4.26	-1.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Kentucky						
Number of Entities.....	6	31	0	24	0	61
Number of Retail Customers.....	1,160,234	201,168	0	730,491	0	2,091,893
Retail Sales (thousand megawatthours).....	43,208	19,153	0	24,906	0	87,267
Percentage of Retail Sales.....	49.51	21.95	.00	28.54	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,852	672	0	1,197	0	3,721
Percentage of Revenue.....	49.78	18.06	.00	32.16	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.29	3.51	.00	4.80	0	4.26

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Louisiana		
NERC Region(s).....		SPP/SERC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	25,633	13
Electric Utilities	14,233	17
Independent Power Producers & Combined Heat and Power	11,399	8
Net Generation (megawatthours).....	94,970,963	16
Electric Utilities	54,921,960	18
Independent Power Producers & Combined Heat and Power	40,049,003	9
Emissions (thousand short tons)		
Sulfur Dioxide	181	20
Nitrogen Oxide	116	15
Carbon Dioxide	56,112	16
Sulfur Dioxide/sq. mile.....	4	23
Nitrogen Oxide/sq. mile.....	3	19
Carbon Dioxide/sq. mile.....	1,288	22
Utility and ESP Retail Electricity Sales (megawatthours).....	79,260,989	16
Utility Retail Electricity Sales (megawatthours)	79,260,989	16
Direct Use (megawatthours).....	22,346,903	3
Average Retail Price (cents/kWh).....	5.99	35

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Louisiana			
1. Willow Glen.....	Petroleum, Gas	Entergy Gulf States Inc	1,787
2. Big Cajun 2.....	Petroleum, Coal	Louisiana Generating LLC	1,730
3. Nine Mile Point	Petroleum, Gas	Entergy Louisiana Inc	1,705
4. Little Gypsy	Gas	Entergy Louisiana Inc	1,204
5. R S Nelson.....	Petroleum, Gas, Coal	Entergy Gulf States Inc	1,203
6. Waterford 3.....	Nuclear	Entergy Louisiana Inc	1,091
7. Acadia Energy Center	Gas	Calpine Corp	1,082
8. River Bend.....	Nuclear	Entergy Gulf States Inc	980
9. Rodemacher	Petroleum, Gas, Coal	CLECO Power LLC	963
10. Michoud.....	Petroleum, Gas	Entergy New Orleans Inc	825

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Louisiana					
A. Entergy Louisiana, Inc	29,566,325	8,780,158	5,538,479	14,737,545	510,143
B. Entergy Gulf States, Inc	18,772,582	4,519,927	4,316,062	9,714,398	222,195
C. Cleco Power, LLC	8,470,579	3,400,026	1,721,711	2,756,212	592,630
D. Entergy New Orleans, Inc.....	5,877,846	2,158,084	2,255,283	409,152	1,055,327
E. Southwestern Electric Power Co.....	5,156,957	2,154,103	1,725,381	1,077,504	199,969
Total	67,844,289	21,012,298	15,556,916	28,694,811	2,580,264
Percentage of Utility Sales.....	86	75	83	97	94

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Louisiana							
Coal	3,343	3,453	1,723	-7.1	17.0	16.9	6.7
Petroleum	16	16	16	.0	.1	.1	.1
Natural Gas	1,811	1,910	1,735	-.5	9.2	9.4	6.8
Dual Fired	9,709	9,689	8,689	-1.2	49.5	47.5	33.9
Nuclear	2,006	2,011	2,071	.4	10.2	9.9	8.1
Total Electric Utilities	16,885	17,079	14,233	-1.9	86.0	83.7	55.5
Coal	8	8	1,730	81.8	.0	.0	6.7
Petroleum	0	6	46	NM	.0	.0	.2
Natural Gas	1,652	2,285	8,724	20.3	8.4	11.2	34.0
Other Gases	10	27	62	22.7	.1	.1	.2
Dual Fired	378	290	451	2.0	1.9	1.4	1.8
Hydroelectric	182	182	192	.6	.9	.9	.7
Other Renewables	487	517	170	-11.0	2.5	2.5	.7
Other	21	21	24	1.6	.1	.1	.1
Total IPP's & Combined Heat and Power	2,739	3,337	11,399	17.2	14.0	16.3	44.5
Coal	3,351	3,461	3,453	.3	17.1	17.0	13.5
Petroleum	16	22	62	16.2	.1	.1	.2
Natural Gas	3,463	4,195	10,458	13.1	17.6	20.5	40.8
Other Gases	10	27	62	22.7	.1	.1	.2
Dual Fired	10,087	9,980	9,140	-1.1	51.4	48.9	35.7
Nuclear	2,006	2,011	2,071	.4	10.2	9.9	8.1
Hydroelectric	182	182	192	.6	.9	.9	.7
Other Renewables	487	517	170	-11.0	2.5	2.5	.7
Other	21	21	24	1.6	.1	.1	.1
Total Electric Industry	19,624	20,416	25,633	3.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Louisiana							
Coal	19,365,873	20,952,995	12,258,694	-5.0	24.5	25.3	12.9
Petroleum	1,837,844	645,547	68,460	-30.6	2.3	.8	.1
Natural Gas	23,750,752	26,010,452	25,085,994	.6	30.1	31.4	26.4
Other Gases	0	0	203,484	NM	.0	.0	.2
Nuclear	14,398,103	13,511,008	17,305,328	2.1	18.2	16.3	18.2
Total Electric Utilities	59,352,572	61,120,002	54,921,960	-9	75.2	73.8	57.8
Coal	45,855	54,126	9,792,212	81.5	.1	.1	10.3
Petroleum	1,649,723	1,640,597	1,796,076	.9	2.1	2.0	1.9
Natural Gas	12,604,472	14,566,110	22,814,854	6.8	16.0	17.6	24.0
Other Gases	700,587	1,088,279	1,294,140	7.1	.9	1.3	1.4
Hydroelectric	1,231,946	1,035,961	891,441	-3.5	1.6	1.3	.9
Other Renewables	2,674,066	3,138,770	2,862,791	.8	3.4	3.8	3.0
Other	716,315	177,799	597,490	-2.0	.9	.2	.6
Total IPP's & Combined Heat and Power	19,622,964	21,701,640	40,049,003	8.2	24.8	26.2	42.2
Coal	19,411,728	21,007,121	22,050,906	1.4	24.6	25.4	23.2
Petroleum	3,487,567	2,286,144	1,864,536	-6.7	4.4	2.8	2.0
Natural Gas	36,355,224	40,576,562	47,900,848	3.1	46.0	49.0	50.4
Other Gases	700,587	1,088,279	1,497,624	8.8	.9	1.3	1.6
Nuclear	14,398,103	13,511,008	17,305,328	2.1	18.2	16.3	18.2
Hydroelectric	1,231,946	1,035,961	891,441	-3.5	1.6	1.3	.9
Other Renewables	2,674,066	3,138,770	2,862,791	.8	3.4	3.8	3.0
Other	716,315	177,799	597,490	-2.0	.9	.2	.6
Total Electric Industry	78,975,536	82,821,642	94,970,963	2.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Louisiana				
Coal (2002 cents per million Btu)	176.7	152.0	126.8	-3.6
Average heat value (Btu per pound)	8,092	8,102	7,904	-.3
Average sulfur Content(percent) .....	.5	.6	.5	*
Petroleum (2002 cents per million Btu)	248.3	310.2	63.4	-14.1
Average heat value (Btu per gallon)	152,148	153,519	140,060	-.9
Average sulfur Content(percent)	1.1	1.3	5.4	19.8
Gas (2002 cents per million Btu)	265.9	276.8	342.4	2.8
Average heat value (Btu per cubic foot)	1,043	1,036	1,029	-.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Louisiana				
Sulfur Dioxide				
Coal	116	104	87	-3.2
Petroleum	120	82	88	-3.4
Gas.....	*	*	*	8.2
Other.....	6	7	6	-6
Total	243	192	180	-3.2
Nitrogen Oxide				
Coal	94	43	44	-8.0
Petroleum	8	7	5	-4.8
Gas.....	40	57	64	5.4
Other.....	2	2	2	-9
Total	145	109	116	-2.5
Carbon Dioxide				
Coal	22,565	23,789	24,609	1.0
Petroleum	3,976	2,662	2,148	-6.6
Gas.....	21,183	25,284	29,355	3.7
Other.....	*	0	0	NM
Total	47,725	51,735	56,112	1.8

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Louisiana							
Retail Sales (thousand megawatthours)							
Residential.....	22,430	24,502	28,157	2.6	33.1	32.3	35.5
Commercial.....	14,398	16,222	18,686	2.9	21.3	21.4	23.6
Industrial	28,439	32,493	29,662	.5	42.0	42.8	37.4
Other	2,488	2,669	2,756	1.1	3.7	3.5	3.5
Total	67,756	75,886	79,261	1.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,939	1,861	2,000	.3	41.0	39.9	42.1
Commercial.....	1,183	1,165	1,242	.5	25.0	24.9	26.2
Industrial	1,406	1,466	1,310	-.8	29.8	31.4	27.6
Other	197	178	194	-.2	4.2	3.8	4.1
Total	4,725	4,670	4,746	*	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.64	7.60	7.10	-2.2	NA	NA	NA
Commercial.....	8.22	7.18	6.64	-2.3	NA	NA	NA
Industrial	4.94	4.51	4.42	-1.2	NA	NA	NA
Other	7.93	6.66	7.05	-1.3	NA	NA	NA
Total	6.97	6.15	5.99	-1.7	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Louisiana						
Number of Entities.....	4	24	0	12	0	40
Number of Retail Customers.....	1,431,652	319,837	0	359,279	0	2,110,768
Retail Sales (thousand megawatthours).....	62,687	9,341	0	7,232	0	79,261
Percentage of Retail Sales.....	79.09	11.79	.00	9.12	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	3,728	542	0	477	0	4,746
Percentage of Revenue.....	78.53	11.42	.00	10.05	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.95	5.80	.00	6.59	0	5.99

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Maine		
NERC Region(s).....		NPCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	4,288	42
Electric Utilities	16	49
Independent Power Producers & Combined Heat and Power	4,272	18
Net Generation (megawatthours)	22,535,033	42
Electric Utilities	865	50
Independent Power Producers & Combined Heat and Power	22,534,168	12
Emissions (thousand short tons)		
Sulfur Dioxide.....	14	43
Nitrogen Oxide.....	9	46
Carbon Dioxide.....	7,360	43
Sulfur Dioxide/sq. mile.....	0	41
Nitrogen Oxide/sq. mile.....	0	45
Carbon Dioxide/sq. mile.....	238	43
Utility and ESP Retail Electricity Sales (megawatthours).....	9,635,779	47
Utility Retail Electricity Sales (megawatthours)	1,025,206	51
ESP Retail Electricity Sales (megawatthours)	8,610,573	6
Direct Use (megawatthours).....	4,601,858	9
Average Retail Price (cents/kWh).....	11.36	3

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Maine			
1. William F Wyman.....	Petroleum	FPL Energy Wyman LLC	825
2. Westbrook Energy Cent	Gas	Calpine Eastern Corp	506
3. Maine Independence St.....	Gas	Casco Bay Energy Co LLC	494
4. Rumford Power Associa.....	Gas	Calpine Corp	254
5. Champion Clean Energy	Petroleum, Gas	IPC Bucksport	176
6. Androscoggin Energy C.....	Petroleum, Gas	Calpine Androscoggin Energy	130
7. Great Northern Paper.....	Hydro	Great Lakes Hydro America LLC	125
8. Somerset Plant.....	Petroleum, Other	S D Warren Co	115
9. Millinocket Mill.....	Other, Petroleum	Great Lakes Hydro America LLC	103
10. Mason Steam.....	Petroleum	FPL Energy Mason LLC	98

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002 (Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Maine					
A. Constellation Power Source Inc.....	4,287,170	3,316,654	924,849	45,667	0
B. New Energy Ventures, Inc	1,357,465	0	1,357,465	0	0
C. WPS Energy Services, Inc	1,122,620	389,267	339,334	387,845	6,174
D. Energy Atlantic LLC.....	811,755	555,697	209,588	46,470	0
E. Enron Energy Services, Inc.....	567,053	0	567,053	0	0
Total	8,146,063	4,261,618	3,398,289	479,982	6,174
Percentage of Utility Sales.....	85	95	86	41	15

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Maine							
Petroleum	1,111	1,064	16	-37.4	29.4	37.2	0.4
Nuclear	870	0	0	NM	23.0	.0	.0
Hydroelectric	421	404	0	NM	11.1	14.1	.0
Other Renewables	0	30	0	NM	.0	1.0	.0
Total Electric Utilities	2,402	1,498	16	-42.6	63.5	52.4	.4
Coal	100	96	85	-1.8	2.6	3.3	2.0
Petroleum	181	227	1,097	22.1	4.8	8.0	25.6
Natural Gas	0	0	1,356	NM	.0	.0	31.6
Dual Fired	12	15	318	43.9	.3	.5	7.4
Hydroelectric	352	354	718	8.3	9.3	12.4	16.7
Other Renewables	737	669	698	-6	19.5	23.4	16.3
Total IPP's & Combined Heat and Power	1,382	1,361	4,272	13.4	36.5	47.6	99.6
Coal	100	96	85	-1.8	2.6	3.3	2.0
Petroleum	1,292	1,292	1,113	-1.6	34.2	45.2	26.0
Natural Gas	0	0	1,356	NM	.0	.0	31.6
Dual Fired	12	15	318	43.9	.3	.5	7.4
Nuclear	870	0	0	NM	23.0	.0	.0
Hydroelectric	772	758	718	-8	20.4	26.5	16.7
Other Renewables	737	699	698	-6	19.5	24.4	16.3
Total Electric Industry	3,784	2,859	4,288	1.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Maine							
Petroleum	760,460	1,442,898	865	-52.9	4.9	14.0	0.0
Nuclear	5,739,866	0	0	NM	36.8	.0	.0
Hydroelectric	1,575,593	1,779,887	0	NM	10.1	17.2	.0
Total Electric Utilities	8,075,919	3,222,785	865	-63.8	51.7	31.2	.0
Coal	549,170	612,223	603,938	1.1	3.5	5.9	2.7
Petroleum	1,102,631	1,042,309	1,228,620	1.2	7.1	10.1	5.5
Natural Gas	9,878	3,446	13,503,963	123.1	.1	.0	59.9
Other Gases	4,788	5,073	48	-40.0	.0	.0	.0
Hydroelectric	1,670,186	1,868,045	2,767,848	5.8	10.7	18.1	12.3
Other Renewables	4,201,700	3,579,526	4,429,751	.6	26.9	34.6	19.7
Total IPP's & Combined Heat and Power	7,538,353	7,110,622	22,534,168	12.9	48.3	68.8	100.0
Coal	549,170	612,223	603,938	1.1	3.5	5.9	2.7
Petroleum	1,863,091	2,485,207	1,229,485	-4.5	11.9	24.1	5.5
Natural Gas	9,878	3,446	13,503,963	123.1	.1	.0	59.9
Other Gases	4,788	5,073	48	-40.0	.0	.0	.0
Nuclear	5,739,866	0	0	NM	36.8	.0	.0
Hydroelectric	3,245,779	3,647,932	2,767,848	-1.8	20.8	35.3	12.3
Other Renewables	4,201,700	3,579,526	4,429,751	.6	26.9	34.6	19.7
Total Electric Industry	15,614,272	10,333,407	22,535,033	4.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Maine				
Coal (2002 cents per million Btu)	0.0	0.0	241.0	NM
Average heat value (Btu per pound).....	0	0	12,015	NM
Average sulfur Content(percent) .....	.0	.0	.7	NM
Petroleum (2002 cents per million Btu)	238.2	286.6	388.5	5.6
Average heat value (Btu per gallon).....	150,295	151,068	147,876	-2
Average sulfur Content(percent)	1.3	1.3	1.1	-1.1
Gas (2002 cents per million Btu).....	.0	.0	391.3	NM
Average heat value (Btu per cubic foot).....	0	0	1,039	NM

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Maine				
Sulfur Dioxide				
Coal	2	3	2	-0.2
Petroleum	6	22	7	1.1
Gas.....	0	0	*	NM
Other.....	4	3	5	1.8
Total	13	27	14	1.1
Nitrogen Oxide				
Coal	3	2	1	-9.7
Petroleum	2	4	1	-4.6
Gas.....	*	*	2	69.7
Other.....	4	3	4	-3
Total	10	10	9	-8
Carbon Dioxide				
Coal	884	701	324	-10.5
Petroleum	1,611	2,372	1,038	-4.8
Gas.....	11	7	5,908	101.5
Other.....	77	84	90	1.8
Total	2,584	3,164	7,360	12.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Maine							
Retail Sales (thousand megawatthours)							
Residential.....	3,872	3,659	4,486	1.6	32.4	30.6	46.5
Commercial.....	2,868	3,279	3,950	3.6	24.0	27.4	41.0
Industrial.....	5,040	4,957	1,160	-15.1	42.2	41.4	12.0
Other.....	172	63	40	-15.0	1.4	.5	.4
Total.....	11,952	11,959	9,636	-2.4	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	493	479	537	1.0	40.7	41.0	49.1
Commercial.....	302	350	414	3.6	24.9	30.0	37.8
Industrial.....	391	324	130	-11.5	32.3	27.7	11.9
Other.....	25	15	13	-7.1	2.1	1.3	1.2
Total.....	1,211	1,168	1,095	-1.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.74	13.10	11.98	-.7	NA	NA	NA
Commercial.....	10.52	10.68	10.47	*	NA	NA	NA
Industrial.....	7.75	6.53	11.24	4.2	NA	NA	NA
Other.....	14.73	23.87	32.82	9.3	NA	NA	NA
Total.....	10.13	9.77	11.36	1.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Maine						
Number of Entities.....	2	6	0	3	12	23
Number of Retail Customers.....	28,959	9,816	0	2,443	745,072	786,290
Retail Sales (thousand megawatthours).....	611	371	0	43	8,611	9,636
Percentage of Retail Sales.....	6.34	3.85	.00	.44	89.36	100.00
Revenue from Retail Sales (million 2002 dollars).....	575	57	0	10	453	1,095
Percentage of Revenue.....	52.52	5.19	.00	.88	41.41	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	94.09	15.30	.00	22.62	0	11.36

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Maryland		
NERC Region(s).....		ECAR/MACC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	11,859	28
Electric Utilities	69	46
Independent Power Producers & Combined Heat and Power	11,790	7
Net Generation (megawatthours).....	48,279,088	26
Electric Utilities	30,734	47
Independent Power Producers & Combined Heat and Power	48,248,354	7
Emissions (thousand short tons)		
Sulfur Dioxide.....	256	14
Nitrogen Oxide.....	106	16
Carbon Dioxide.....	34,312	30
Sulfur Dioxide/sq. mile.....	26	2
Nitrogen Oxide/sq. mile.....	11	1
Carbon Dioxide/sq. mile.....	3,510	4
Utility and ESP Retail Electricity Sales (megawatthours).....	66,928,026	22
Utility Retail Electricity Sales (megawatthours)	59,271,452	24
ESP Retail Electricity Sales (megawatthours).....	7,656,574	8
Direct Use (megawatthours).....	-254,035	47
Average Retail Price (cents/kWh).....	6.21	31

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Maryland			
1. Chalk Point LLC	Petroleum, Gas, Coal	Mirant Chalk Point LLC	2,429
2. Calvert Cliffs Nuclea.....	Nuclear	Calvert Cliffs Nuclear PP Inc	1,685
3. Morgantown Generating.....	Petroleum, Coal	Mirant Mid-Atlantic LLC	1,492
4. Brandon Shores.....	Petroleum, Coal	Constellation Power Source Gen	1,286
5. Herbert A Wagner	Gas, Petroleum, Coal	Constellation Power Source Gen	1,014
6. Dickerson	Petroleum, Gas, Coal	Mirant Mid-Atlantic LLC	853
7. Conowingo.....	Hydro	Exelon Generation Co LLC	512
8. C P Crane.....	Gas, Petroleum, Coal	Constellation Power Source Gen	399
9. Perryman	Gas, Petroleum	Constellation Power Source Gen	360
10. Riverside.....	Other, Petroleum, Gas	Constellation Power Source Gen	251

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Maryland					
A. Baltimore Gas & Electric Co.....	31,729,169	12,104,368	7,975,833	11,234,480	414,488
B. Potomac Electric Power Company.....	10,146,633	5,137,748	4,930,780	9,736	68,369
C. The Potomac Edison Company	9,071,481	2,843,971	1,778,566	4,433,959	14,985
D. Washington Gas Engy Serv Inc.....	4,190,731	842,777	3,044,540	150,813	152,601
E. Delmarva Power & Light Company	3,965,821	2,023,610	1,507,913	421,952	12,346
Total	59,103,835	22,952,474	19,237,632	16,250,940	662,789
Percentage of Utility Sales.....	88	89	82	97	79

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Maryland							
Coal	4,628	4,647	0	NM	42.1	39.7	0.0
Petroleum	1,408	1,285	48	-31.3	12.8	11.0	.4
Natural Gas	1,129	1,483	0	NM	10.3	12.7	.0
Dual Fired	1,455	1,481	21	-37.6	13.2	12.6	.2
Nuclear	1,660	1,675	0	NM	15.1	14.3	.0
Hydroelectric	428	530	0	NM	3.9	4.5	.0
Total Electric Utilities	10,709	11,101	69	-42.9	97.4	94.8	.6
Coal	60	60	4,897	63.0	.5	.5	41.3
Petroleum	2	2	835	96.0	.0	.0	7.0
Natural Gas	0	79	338	NM	.0	.7	2.9
Other Gases	0	0	152	NM	.0	.0	1.3
Dual Fired	162	343	3,170	39.1	1.5	2.9	26.7
Nuclear	0	0	1,685	NM	.0	.0	14.2
Hydroelectric	0	0	530	NM	.0	.0	4.5
Other Renewables	65	128	183	12.2	.6	1.1	1.5
Total IPP's & Combined Heat and Power	290	612	11,790	51.0	2.6	5.2	99.4
Coal	4,688	4,707	4,897	.5	42.6	40.2	41.3
Petroleum	1,410	1,287	883	-5.1	12.8	11.0	7.4
Natural Gas	1,129	1,561	338	-12.5	10.3	13.3	2.9
Other Gases	0	0	152	NM	.0	.0	1.3
Dual Fired	1,618	1,824	3,190	7.8	14.7	15.6	26.9
Nuclear	1,660	1,675	1,685	.2	15.1	14.3	14.2
Hydroelectric	428	530	530	2.4	3.9	4.5	4.5
Other Renewables	65	128	183	12.2	.6	1.1	1.5
Total Electric Industry	10,998	11,713	11,859	.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Maryland							
Coal	24,890,670	27,394,342	0	NM	55.3	58.7	0.0
Petroleum	3,953,777	1,478,623	30,734	-41.7	8.8	3.2	.1
Natural Gas	684,750	878,598	0	NM	1.5	1.9	.0
Nuclear	12,300,816	13,212,967	0	NM	27.3	28.3	.0
Hydroelectric	1,658,271	1,588,375	0	NM	3.7	3.4	.0
Total Electric Utilities	43,488,284	44,552,905	30,734	-55.3	96.7	95.4	.1
Coal	236,309	226,583	28,712,053	70.5	.5	.5	59.5
Petroleum	211,013	86,387	2,251,698	30.1	.5	.2	4.7
Natural Gas	87,554	533,988	2,214,431	43.2	.2	1.1	4.6
Other Gases	475,788	564,035	504,513	.7	1.1	1.2	1.0
Nuclear	0	0	12,128,005	NM	.0	.0	25.1
Hydroelectric	0	0	1,660,989	NM	.0	.0	3.4
Other Renewables	478,940	743,497	776,665	5.5	1.1	1.6	1.6
Total IPP's & Combined Heat and Power	1,489,604	2,154,491	48,248,354	47.2	3.3	4.6	99.9
Coal	25,126,979	27,620,925	28,712,053	1.5	55.9	59.1	59.5
Petroleum	4,164,790	1,565,010	2,282,432	-6.5	9.3	3.4	4.7
Natural Gas	772,304	1,412,586	2,214,431	12.4	1.7	3.0	4.6
Other Gases	475,788	564,035	504,513	.7	1.1	1.2	1.0
Nuclear	12,300,816	13,212,967	12,128,005	-.2	27.3	28.3	25.1
Hydroelectric	1,658,271	1,588,375	1,660,989	.0	3.7	3.4	3.4
Other Renewables	478,940	743,497	776,665	5.5	1.1	1.6	1.6
Total Electric Industry	44,977,888	46,707,396	48,279,088	.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Maryland				
Coal (2002 cents per million Btu)	178.2	154.2	--	NA
Average heat value (Btu per pound)	12,752	12,913	--	NA
Average sulfur Content(percent)	1.3	1.1	--	NA
Petroleum (2002 cents per million Btu)	255.2	304.6	--	NA
Average heat value (Btu per gallon)	150,580	150,922	--	NA
Average sulfur Content(percent)	1.5	1.1	--	NA
Gas (2002 cents per million Btu)	322.0	293.2	--	NA
Average heat value (Btu per cubic foot)	1,041	1,041	--	NA

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Maryland				
Sulfur Dioxide				
Coal	240	254	249	0.4
Petroleum	33	10	6	-16.6
Gas.....*	*	0	*	2.4
Other.....	1	1	1	-5.5
Total	274	265	256	-7
Nitrogen Oxide				
Coal	88	106	72	-2.2
Petroleum	6	3	3	-8.2
Gas.....	29	4	30	.6
Other.....	1	1	2	8.0
Total	123	114	106	-1.6
Carbon Dioxide				
Coal	25,086	27,754	29,981	2.0
Petroleum	4,316	1,656	2,143	-7.5
Gas.....	1,176	1,374	2,029	6.3
Other.....	63	145	158	10.7
Total	30,641	30,929	34,312	1.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Maryland							
Retail Sales (thousand megawatthours)							
Residential.....	21,546	21,937	25,770	2.0	40.0	39.0	38.5
Commercial.....	11,317	23,419	23,578	8.5	21.0	41.6	35.2
Industrial	20,201	10,128	16,740	-2.1	37.5	18.0	25.0
Other	809	781	841	.4	1.5	1.4	1.3
Total	53,872	56,264	66,928	2.4	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,971	1,877	1,986	.1	47.2	46.5	47.8
Commercial.....	904	1,651	1,436	5.3	21.6	40.9	34.5
Industrial	1,225	438	650	-6.8	29.3	10.8	15.6
Other	75	71	86	1.5	1.8	1.8	2.1
Total	4,175	4,037	4,158	*	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	9.15	8.56	7.71	-1.9	NA	NA	NA
Commercial.....	7.99	7.05	6.09	-3.0	NA	NA	NA
Industrial	6.07	4.32	3.88	-4.8	NA	NA	NA
Other	9.22	9.04	10.18	1.1	NA	NA	NA
Total	7.75	7.17	6.21	-2.4	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Maryland						
Number of Entities	2	7	0	3	7	19
Number of Retail Customers	1,385,839	646,169	0	169,779	69,984	2,271,771
Retail Sales (thousand megawatthours).....	40,801	14,854	0	3,616	7,657	66,928
Percentage of Retail Sales.....	60.96	22.19	.00	5.40	11.44	100.00
Revenue from Retail Sales (million 2002 dollars)	2,388	1,169	0	267	334	4,158
Percentage of Revenue.....	57.44	28.11	.00	6.43	8.03	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.85	7.87	.00	7.39	0	6.21

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Massachusetts		
NERC Region(s).....		NPCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	12,159	27
Electric Utilities	1,090	44
Independent Power Producers & Combined Heat and Power	11,069	9
Net Generation (megawatthours).....	42,015,689	34
Electric Utilities	1,156,651	45
Independent Power Producers & Combined Heat and Power	40,859,038	8
Emissions (thousand short tons)		
Sulfur Dioxide	97	26
Nitrogen Oxide	38	38
Carbon Dioxide	25,699	33
Sulfur Dioxide/sq. mile.....	12	8
Nitrogen Oxide/sq. mile.....	5	11
Carbon Dioxide/sq. mile.....	3,279	6
Utility and ESP Retail Electricity Sales (megawatthours).....	52,409,743	25
Utility Retail Electricity Sales (megawatthours)	43,879,763	29
ESP Retail Electricity Sales (megawatthours).....	8,529,980	7
Direct Use (megawatthours).....	-1,300,511	50
Average Retail Price (cents/kWh).....	10.18	8

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Massachusetts			
1. Brayton Point	Gas, Petroleum, Coal	U S Gen New England Inc	1,538
2. Canal	Gas, Petroleum	Mirant Canal LLC	1,112
3. Northfield Mountain	Hydro	Northeast Generation Co	1,080
4. Mystic Generating Sta	Gas, Petroleum	Exelon New England Holdings LLC	778
5. Salem Harbor	Petroleum, Coal	U S Gen New England Inc	712
6. Pilgrim Nuclear Power	Nuclear	Entergy Nuclear Generation Co	667
7. Bear Swamp.....	Hydro	U S Gen New England Inc	570
8. Stony Brook.....	Petroleum, Gas	Massachusetts Mun Whls Elec Co	531
9. ANP Bellingham Energy.....	Petroleum, Gas	ANP Bellingham Energy Co	447
10. ANP Blackstone Energy	Gas	ANP Blackstone Energy Co	444

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Massachusetts					
A. Massachusetts Electric Company	17,145,737	8,056,404	6,505,182	2,532,104	52,047
B. Boston Edison Company	10,724,435	3,958,034	5,876,260	783,552	106,589
C. Western Massachusetts Elec Co.....	3,319,632	1,446,053	1,195,187	651,501	26,891
D. Commonwealth Electric Company	3,245,928	1,797,977	1,285,226	150,759	11,966
E. New Energy Ventures, Inc	3,173,115	0	3,173,115	0	0
Total	37,608,847	15,258,468	18,034,970	4,117,916	197,493
Percentage of Utility Sales.....	72	82	76	45	18

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Massachusetts							
Coal	1,679	1,737	145	-23.8	15.4	15.3	1.2
Petroleum	2,691	1,941	305	-21.5	24.6	17.1	2.5
Natural Gas	18	870	27	4.7	.2	7.7	.2
Dual Fired	2,552	2,370	569	-15.4	23.4	20.9	4.7
Nuclear	665	669	0	NM	6.1	5.9	.0
Hydroelectric	1,856	1,855	44	-34.1	17.0	16.4	.4
Other Renewables	*	*	0	NM	.0	.0	.0
Total Electric Utilities	9,461	9,442	1,090	-21.3	86.6	83.4	9.0
Coal	31	10	1,544	54.4	.3	.1	12.7
Petroleum	50	122	1,724	48.2	.5	1.1	14.2
Natural Gas	152	429	2,188	34.5	1.4	3.8	18.0
Dual Fired	867	929	2,783	13.8	7.9	8.2	22.9
Nuclear	0	0	667	NM	.0	.0	5.5
Hydroelectric	59	58	1,859	46.8	.5	.5	15.3
Other Renewables	306	337	305	.0	2.8	3.0	2.5
Total IPP's & Combined Heat and Power	1,465	1,886	11,069	25.2	13.4	16.6	91.0
Coal	1,710	1,747	1,689	-.1	15.6	15.4	13.9
Petroleum	2,741	2,063	2,029	-3.3	25.1	18.2	16.7
Natural Gas	170	1,299	2,215	33.0	1.6	11.5	18.2
Dual Fired	3,418	3,299	3,351	-.2	31.3	29.1	27.6
Nuclear	665	669	667	.0	6.1	5.9	5.5
Hydroelectric	1,915	1,913	1,903	-.1	17.5	16.9	15.6
Other Renewables	306	337	305	-.1	2.8	3.0	2.5
Total Electric Industry	10,925	11,328	12,159	1.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Massachusetts							
Coal	9,815,909	12,488,802	0	NM	26.5	27.8	0.0
Petroleum	11,112,574	11,586,081	220,435	-35.3	30.0	25.8	.5
Natural Gas	2,897,352	5,213,021	728,570	-14.2	7.8	11.6	1.7
Nuclear	4,338,685	4,310,431	0	NM	11.7	9.6	.0
Hydroelectric	-976	300,362	207,646	NA	.0	.7	.5
Total Electric Utilities	28,163,544	33,898,697	1,156,651	-29.9	76.0	75.4	2.8
Coal	114,485	37,654	11,502,861	66.9	.3	.1	27.4
Petroleum	479,277	226,337	6,579,860	33.8	1.3	.5	15.7
Natural Gas	6,152,756	8,413,150	15,140,405	10.5	16.6	18.7	36.0
Nuclear	0	0	5,768,766	NM	.0	.0	13.7
Hydroelectric	204,540	243,147	-187,500	NA	.6	.5	-.4
Other Renewables	1,964,605	2,146,346	2,050,777	.5	5.3	4.8	4.9
Other	0	0	3,869	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	8,915,663	11,066,633	40,859,038	18.4	24.0	24.6	97.2
Coal	9,930,394	12,526,456	11,502,861	1.6	26.8	27.9	27.4
Petroleum	11,591,851	11,812,418	6,800,295	-5.8	31.3	26.3	16.2
Natural Gas	9,050,108	13,626,171	15,868,975	6.4	24.4	30.3	37.8
Nuclear	4,338,685	4,310,431	5,768,766	3.2	11.7	9.6	13.7
Hydroelectric	203,564	543,509	20,146	-22.7	.5	1.2	.0
Other Renewables	1,964,605	2,146,346	2,050,777	.5	5.3	4.8	4.9
Other	0	0	3,869	NM	.0	.0	.0
Total Electric Industry	37,079,207	44,965,330	42,015,689	1.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Massachusetts				
Coal (2002 cents per million Btu)	186.8	174.6	191.9	0.3
Average heat value (Btu per pound)	12,951	12,571	12,501	-.4
Average sulfur Content(percent)	1.0	.7	.7	-4.9
Petroleum (2002 cents per million Btu)	291.8	267.9	354.9	2.2
Average heat value (Btu per gallon)	151,281	151,641	150,202	-.1
Average sulfur Content(percent)	1.5	1.1	.9	-5.7
Gas (2002 cents per million Btu)	293.1	309.3	351.4	2.0
Average heat value (Btu per cubic foot)	1,034	1,033	1,019	-.2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Massachusetts				
Sulfur Dioxide				
Coal	77	74	62	-2.3
Petroleum	71	71	34	-7.8
Gas.....	*	*	*	.8
Other.....	1	1	1	4.0
Total	149	145	97	-4.6
Nitrogen Oxide				
Coal	31	24	21	-4.1
Petroleum	11	14	7	-4.6
Gas.....	8	12	5	-4.9
Other.....	3	4	4	2.7
Total	53	54	38	-3.8
Carbon Dioxide				
Coal	9,774	12,396	11,665	2.0
Petroleum	10,231	9,563	5,904	-5.9
Gas.....	4,679	7,175	7,754	5.8
Other.....	371	419	375	.1
Total	25,054	29,552	25,699	.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Massachusetts							
Retail Sales (thousand megawatthours)							
Residential.....	15,785	16,274	18,548	1.8	34.9	34.1	35.4
Commercial.....	18,897	20,834	23,680	2.5	41.7	43.7	45.2
Industrial	9,605	9,930	9,077	-.6	21.2	20.8	17.3
Other	994	622	1,105	1.2	2.2	1.3	2.1
Total	45,281	47,659	52,410	1.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,935	1,938	2,034	.6	38.4	37.8	38.1
Commercial.....	2,036	2,204	2,400	1.8	40.4	42.9	45.0
Industrial	927	896	796	-1.7	18.4	17.5	14.9
Other	135	93	108	-2.4	2.7	1.8	2.0
Total	5,033	5,131	5,338	.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.26	11.91	10.97	-1.2	NA	NA	NA
Commercial.....	10.77	10.58	10.14	-.7	NA	NA	NA
Industrial	9.65	9.02	8.77	-1.1	NA	NA	NA
Other	13.60	14.89	9.79	-3.6	NA	NA	NA
Total	11.12	10.77	10.18	-1.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Massachusetts						
Number of Entities.....	7	40	0	0	8	55
Number of Retail Customers.....	2,470,435	384,759	0	0	35,324	2,890,518
Retail Sales (thousand megawatthours).....	36,469	7,410	0	0	8,530	52,410
Percentage of Retail Sales.....	69.59	14.14	.00	.00	16.28	100.00
Revenue from Retail Sales (million 2002 dollars).....	4,194	706	0	0	438	5,338
Percentage of Revenue.....	78.58	13.22	.00	.00	8.20	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	11.50	9.52	.00	.00	0	10.18

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Michigan		
NERC Region(s).....		ECAR/MAPP/MAIN
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	29,335	9
Electric Utilities	23,279	9
Independent Power Producers & Combined Heat and Power	6,056	13
Net Generation (megawatthours).....	117,889,087	12
Electric Utilities	100,451,718	8
Independent Power Producers & Combined Heat and Power	17,437,370	15
Emissions (thousand short tons)		
Sulfur Dioxide.....	355	12
Nitrogen Oxide.....	154	13
Carbon Dioxide.....	79,781	11
Sulfur Dioxide/sq. mile.....	6	19
Nitrogen Oxide/sq. mile.....	3	18
Carbon Dioxide/sq. mile.....	1,404	20
Utility and ESP Retail Electricity Sales (megawatthours).....	107,310,696	10
Utility Retail Electricity Sales (megawatthours)	102,810,494	10
ESP Retail Electricity Sales (megawatthours).....	4,500,202	10
Direct Use (megawatthours).....	2,811,015	14
Average Retail Price (cents/kWh).....	6.92	19

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Michigan			
1. Monroe.....	Petroleum, Coal	Detroit Edison Co	3,034
2. Donald C Cook.....	Nuclear	Indiana Michigan Power Co	2,060
3. Ludington.....	Hydro	Consumers Energy Co	1,872
4. Midland Cogeneration.....	Gas	Midland Cogeneration Venture	1,808
5. Dan E Karn.....	Petroleum, Gas, Coal	Consumers Energy Co	1,787
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. Greenwood.....	Petroleum, Gas	Detroit Edison Co	1,010

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Michigan					
A. Detroit Edison Company.....	48,345,861	15,957,874	18,395,314	13,589,485	403,188
B. Consumers Energy Company.....	35,746,492	12,698,034	11,361,137	11,453,899	233,422
C. Indiana Michigan Power Co.....	3,039,931	1,196,874	751,232	1,079,556	12,269
D. Quest Energy LLC.....	2,748,187	0	1,462,970	1,285,217	0
E. Wisconsin Electric Power Co.....	2,711,308	164,576	146,120	2,398,275	2,337
Total.....	92,591,779	30,017,358	32,116,773	29,806,432	651,216
Percentage of Utility Sales.....	86	87	85	88	68

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Michigan							
Coal	11,929	11,796	11,627	-0.3	47.4	47.5	39.6
Petroleum	1,505	2,367	1,567	.5	6.0	9.5	5.3
Natural Gas	403	405	2,132	20.3	1.6	1.6	7.3
Other Gases	282	11	0	NM	1.1	.0	.0
Dual Fired	2,128	1,280	1,913	-1.2	8.5	5.2	6.5
Nuclear	3,967	3,922	3,938	-.1	15.8	15.8	13.4
Hydroelectric	2,200	2,129	2,101	-.5	8.7	8.6	7.2
Total Electric Utilities	22,412	21,909	23,279	.4	89.0	88.1	79.4
Coal	643	636	354	-6.4	2.6	2.6	1.2
Petroleum	2	2	43	37.6	.0	.0	.1
Natural Gas	1,651	1,782	5,157	13.5	6.6	7.2	17.6
Dual Fired	88	79	87	-.1	.3	.3	.3
Hydroelectric	26	26	27	.3	.1	.1	.1
Other Renewables	346	426	388	1.3	1.4	1.7	1.3
Total IPP's & Combined Heat and Power	2,757	2,950	6,056	9.1	11.0	11.9	20.6
Coal	12,572	12,432	11,981	-.5	49.9	50.0	40.8
Petroleum	1,507	2,369	1,610	.7	6.0	9.5	5.5
Natural Gas	2,054	2,186	7,289	15.1	8.2	8.8	24.8
Other Gases	282	11	0	NM	1.1	.0	.0
Dual Fired	2,215	1,359	2,000	-1.1	8.8	5.5	6.8
Nuclear	3,967	3,922	3,938	-.1	15.8	15.8	13.4
Hydroelectric	2,226	2,154	2,129	-.5	8.8	8.7	7.3
Other Renewables	346	426	388	1.3	1.4	1.7	1.3
Total Electric Industry	25,169	24,859	29,335	1.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Michigan							
Coal	61,558,991	65,552,021	65,389,899	0.7	57.9	61.3	55.5
Petroleum	619,777	602,053	1,090,767	6.5	.6	.6	.9
Natural Gas	680,194	838,412	2,336,031	14.7	.6	.8	2.0
Nuclear	28,525,000	21,913,808	31,087,454	1.0	26.8	20.5	26.4
Hydroelectric	866,145	658,322	522,382	-5.5	.8	.6	.4
Other Renewables	0	0	25,185	NM	.0	.0	.0
Total Electric Utilities	92,250,107	89,564,616	100,451,718	1.0	86.7	83.7	85.2
Coal	2,400,090	1,892,829	1,309,610	-6.5	2.3	1.8	1.1
Petroleum	141,798	155,600	12,718	-23.5	.1	.1	.0
Natural Gas	9,340,020	12,549,899	13,517,387	4.2	8.8	11.7	11.5
Other Gases	3,371	959	10,108	13.0	.0	.0	.0
Hydroelectric	122,483	119,758	111,310	-1.1	.1	.1	.1
Other Renewables	2,073,571	2,668,976	2,476,219	2.0	1.9	2.5	2.1
Other	37,112	18,122	18	-57.2	.0	.0	.0
Total IPP's & Combined Heat and Power	14,118,445	17,406,144	17,437,370	2.4	13.3	16.3	14.8
Coal	63,959,081	67,444,850	66,699,509	.5	60.1	63.0	56.6
Petroleum	761,575	757,653	1,103,485	4.2	.7	.7	.9
Natural Gas	10,020,214	13,388,311	15,853,418	5.2	9.4	12.5	13.4
Other Gases	3,371	959	10,108	13.0	.0	.0	.0
Nuclear	28,525,000	21,913,808	31,087,454	1.0	26.8	20.5	26.4
Hydroelectric	988,628	778,080	633,692	-4.8	.9	.7	.5
Other Renewables	2,073,571	2,668,976	2,501,404	2.1	1.9	2.5	2.1
Other	37,112	18,122	18	-57.2	.0	.0	.0
Total Electric Industry	106,368,552	106,970,760	117,889,087	1.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Michigan				
Coal (2002 cents per million Btu)	170.4	140.7	131.7	-2.8
Average heat value (Btu per pound)	10,853	10,566	9,991	-.9
Average sulfur Content(percent) .....	.7	.7	.6	-1.9
Petroleum (2002 cents per million Btu)	340.9	317.2	273.8	-2.4
Average heat value (Btu per gallon)	147,229	135,205	146,871	*
Average sulfur Content(percent) .....	.9	1.6	1.9	9.0
Gas (2002 cents per million Btu)	269.4	263.4	352.1	3.0
Average heat value (Btu per cubic foot)	379	310	1,007	11.5

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Michigan				
Sulfur Dioxide				
Coal	372	421	350	-0.7
Petroleum	5	7	4	-4.6
Gas.....*	*	*	*	1.7
Other.....	2	2	2	-2.1
Total	380	430	355	-8
Nitrogen Oxide				
Coal	291	188	135	-8.2
Petroleum	1	1	1	-6.7
Gas.....	10	13	13	3.6
Other.....	3	4	5	7.3
Total	304	207	154	-7.3
Carbon Dioxide				
Coal	67,051	71,693	70,623	.6
Petroleum	822	838	1,082	3.1
Gas.....	5,294	7,088	7,977	4.7
Other.....	50	86	100	7.9
Total	73,217	79,705	79,781	1.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Michigan							
Retail Sales (thousand megawatthours)							
Residential.....	26,770	28,726	34,336	2.8	30.6	29.5	32.0
Commercial.....	28,930	32,411	37,969	3.1	33.0	33.3	35.4
Industrial	30,572	35,430	34,046	1.2	34.9	36.4	31.7
Other	1,317	824	960	-3.4	1.5	.8	.9
Total	87,589	97,391	107,311	2.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	2,433	2,530	2,845	1.8	34.9	35.9	38.3
Commercial.....	2,583	2,610	2,794	.9	37.1	37.1	37.6
Industrial	1,818	1,809	1,684	-.8	26.1	25.7	22.7
Other	134	92	100	-3.2	1.9	1.3	1.3
Total	6,969	7,041	7,423	.7	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	9.09	8.81	8.28	-1.0	NA	NA	NA
Commercial.....	8.93	8.05	7.36	-2.1	NA	NA	NA
Industrial	5.95	5.11	4.95	-2.0	NA	NA	NA
Other	10.19	11.18	10.43	.3	NA	NA	NA
Total	7.96	7.23	6.92	-1.5	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Michigan						
Number of Entities	8	44	0	9	6	67
Number of Retail Customers	3,989,397	450,696	0	241,973	16,947	4,699,013
Retail Sales (thousand megawatthours).....	88,973	11,548	0	2,289	4,500	107,311
Percentage of Retail Sales.....	82.91	10.76	.00	2.13	4.19	100.00
Revenue from Retail Sales (million 2002 dollars)	6,253	729	0	212	229	7,423
Percentage of Revenue.....	84.23	9.82	.00	2.86	3.09	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.03	6.32	.00	9.28	0	6.92

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Minnesota		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	11,287	30
Electric Utilities	10,329	22
Independent Power Producers & Combined Heat and Power	958	38
Net Generation (megawatthours).....	52,777,966	25
Electric Utilities	48,568,719	21
Independent Power Producers & Combined Heat and Power	4,209,247	32
Emissions (thousand short tons)		
Sulfur Dioxide	111	25
Nitrogen Oxide	98	19
Carbon Dioxide	40,009	27
Sulfur Dioxide/sq. mile.....	1	34
Nitrogen Oxide/sq. mile.....	1	30
Carbon Dioxide/sq. mile.....	503	36
Utility and ESP Retail Electricity Sales (megawatthours).....	62,162,361	24
Utility Retail Electricity Sales (megawatthours)	62,162,361	23
Direct Use (megawatthours).....	2,701,154	16
Average Retail Price (cents/kWh).....	5.84	36

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Minnesota			
1. Sherburne County	Petroleum, Coal	Northern States Power Co	2,292
2. Prairie Island	Nuclear	Northern States Power Co	1,049
3. Clay Boswell	Petroleum, Coal	Minnesota Power Inc	914
4. Monticello	Nuclear	Northern States Power Co	597
5. Allen S King	Gas, Petroleum, Coal	Northern States Power Co	571
6. Black Dog	Petroleum, Gas, Coal	Northern States Power Co	548
7. Lakefield Junction	Petroleum, Gas	Great River Energy	487
8. Pleasant Valley	Petroleum, Gas	Great River Energy	421
9. Riverside	Gas, Petroleum, Coal	Northern States Power Co	384
10. Inver Hills	Gas	Northern States Power Co	351

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Minnesota					
A. Northern States Power Company.....	30,177,176	8,487,493	12,080,327	9,369,198	240,158
B. Minnesota Power, Inc.	8,779,771	960,107	1,127,782	6,616,799	75,083
C. Otter Tail Power Company	1,908,089	502,102	989,506	383,160	33,321
D. Connexus Energy	1,693,572	1,017,852	584,482	72,640	18,598
E. Dakota Electric Association.....	1,626,875	834,273	299,415	478,464	14,723
Total	44,185,483	11,801,827	15,081,512	16,920,261	381,883
Percentage of Utility Sales.....	71	58	78	79	52

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Minnesota							
Coal	5,708	5,811	5,726	0.0	60.3	57.1	50.7
Petroleum	915	1,011	943	.3	9.7	9.9	8.4
Natural Gas	128	291	294	9.6	1.4	2.9	2.6
Dual Fired	329	264	1,420	17.6	3.5	2.6	12.6
Nuclear	1,554	1,572	1,646	.6	16.4	15.4	14.6
Hydroelectric	144	142	134	-.8	1.5	1.4	1.2
Other Renewables	85	126	166	7.7	.9	1.2	1.5
Total Electric Utilities	8,864	9,216	10,329	1.7	93.7	90.6	91.5
Coal	345	349	158	-8.3	3.6	3.4	1.4
Petroleum	14	20	29	8.3	.2	.2	.3
Natural Gas	30	29	133	17.9	.3	.3	1.2
Dual Fired	27	300	172	22.9	.3	2.9	1.5
Hydroelectric	64	72	42	-4.6	.7	.7	.4
Other Renewables	115	191	412	15.2	1.2	1.9	3.7
Other	0	0	11	NM	.0	.0	.1
Total IPP's & Combined Heat and Power	595	961	958	5.4	6.3	9.4	8.5
Coal	6,053	6,159	5,885	-.3	64.0	60.5	52.1
Petroleum	929	1,031	973	.5	9.8	10.1	8.6
Natural Gas	159	320	427	11.6	1.7	3.1	3.8
Dual Fired	356	564	1,592	18.1	3.8	5.5	14.1
Nuclear	1,554	1,572	1,646	.6	16.4	15.4	14.6
Hydroelectric	208	214	176	-1.8	2.2	2.1	1.6
Other Renewables	200	317	578	12.5	2.1	3.1	5.1
Other	0	0	11	NM	.0	.0	.1
Total Electric Industry	9,459	10,177	11,287	2.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Minnesota							
Coal	27,110,850	27,081,067	32,200,713	1.9	61.6	62.6	61.0
Petroleum	630,166	763,764	640,129	.2	1.4	1.8	1.2
Natural Gas	279,415	511,966	897,018	13.8	.6	1.2	1.7
Nuclear	11,986,053	10,819,172	13,684,824	1.5	27.2	25.0	25.9
Hydroelectric	833,736	697,224	736,795	-1.4	1.9	1.6	1.4
Other Renewables	413,881	429,333	409,240	-1	.9	1.0	.8
Total Electric Utilities	41,254,101	40,302,526	48,568,719	1.8	93.7	93.2	92.0
Coal	1,541,512	1,520,639	1,719,496	1.2	3.5	3.5	3.3
Petroleum	7,738	73,623	12,662	5.6	.0	.2	.0
Natural Gas	233,278	260,798	694,935	12.9	.5	.6	1.3
Hydroelectric	317,072	337,474	72,290	-15.1	.7	.8	.1
Other Renewables	686,934	745,237	1,667,855	10.4	1.6	1.7	3.2
Other	0	0	42,010	NM	.0	.0	.1
Total IPP's & Combined Heat and Power	2,786,533	2,937,770	4,209,247	4.7	6.3	6.8	8.0
Coal	28,652,362	28,601,706	33,920,209	1.9	65.1	66.1	64.3
Petroleum	637,904	837,387	652,790	.3	1.4	1.9	1.2
Natural Gas	512,693	772,764	1,591,953	13.4	1.2	1.8	3.0
Nuclear	11,986,053	10,819,172	13,684,824	1.5	27.2	25.0	25.9
Hydroelectric	1,150,808	1,034,698	809,085	-3.8	2.6	2.4	1.5
Other Renewables	1,100,815	1,174,570	2,077,095	7.3	2.5	2.7	3.9
Other	0	0	42,010	NM	.0	.0	.1
Total Electric Industry	44,040,634	43,240,296	52,777,966	2.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Minnesota				
Coal (2002 cents per million Btu)	126.5	112.5	106.0	-1.9
Average heat value (Btu per pound)	8,844	8,895	8,818	*
Average sulfur Content(percent) .....	.4	.4	.4	.3
Petroleum (2002 cents per million Btu)	88.8	80.0	60.1	-4.2
Average heat value (Btu per gallon)	71,632	72,268	131,276	7.0
Average sulfur Content(percent)	5.3	5.6	5.8	.9
Gas (2002 cents per million Btu)	273.2	250.4	373.0	3.5
Average heat value (Btu per cubic foot)	1,008	1,004	1,006	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Minnesota				
Sulfur Dioxide				
Coal	116	123	110	-0.6
Petroleum	*	*	*	.0
Gas.....	0	0	0	NM
Other.....	2	3	1	-9.7
Total	119	126	111	- .8
Nitrogen Oxide				
Coal	136	103	94	-4.0
Petroleum	*	*	*	.0
Gas.....	1	1	1	5.0
Other.....	3	3	2	-1.5
Total	140	107	98	-3.9
Carbon Dioxide				
Coal	33,503	34,882	38,417	1.5
Petroleum	722	921	637	-1.4
Gas.....	384	536	900	9.9
Other.....	51	58	53	.5
Total	34,661	36,397	40,009	1.6

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Minnesota							
Retail Sales (thousand megawatthours)							
Residential.....	15,597	17,073	20,451	3.1	31.7	30.7	32.9
Commercial.....	8,535	10,137	19,457	9.6	17.3	18.2	31.3
Industrial	24,384	27,713	21,515	-1.4	49.5	49.8	34.6
Other	694	750	740	.7	1.4	1.3	1.2
Total	49,211	55,674	62,162	2.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,231	1,269	1,531	2.4	40.1	39.6	42.2
Commercial.....	589	649	1,143	7.6	19.2	20.2	31.5
Industrial	1,194	1,234	900	-3.1	38.9	38.5	24.8
Other	55	55	54	-2	1.8	1.7	1.5
Total	3,070	3,207	3,630	1.9	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.89	7.43	7.49	-6	NA	NA	NA
Commercial.....	6.90	6.40	5.88	-1.8	NA	NA	NA
Industrial	4.90	4.45	4.19	-1.7	NA	NA	NA
Other	7.99	7.32	7.36	-9	NA	NA	NA
Total	6.24	5.76	5.84	-7	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Minnesota						
Number of Entities.....	4	131	0	43	0	178
Number of Retail Customers.....	1,341,154	395,113	0	636,174	0	2,372,441
Retail Sales (thousand megawatthours).....	40,866	10,108	0	11,188	0	62,162
Percentage of Retail Sales.....	65.74	16.26	.00	18.00	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	2,240	616	0	774	0	3,630
Percentage of Revenue.....	61.70	16.97	.00	21.32	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.48	6.09	.00	6.92	0	5.84

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Mississippi		
NERC Region(s).....		SERC/SPP
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	13,691	25
Electric Utilities	8,888	26
Independent Power Producers & Combined Heat and Power	4,803	15
Net Generation (megawatthours).....	42,900,941	32
Electric Utilities	35,099,283	30
Independent Power Producers & Combined Heat and Power	7,801,659	25
Emissions (thousand short tons)		
Sulfur Dioxide.....	72	30
Nitrogen Oxide.....	46	33
Carbon Dioxide.....	25,545	34
Sulfur Dioxide/sq. mile.....	2	33
Nitrogen Oxide/sq. mile.....	1	33
Carbon Dioxide/sq. mile.....	545	32
Utility and ESP Retail Electricity Sales (megawatthours).....	45,451,850	28
Utility Retail Electricity Sales (megawatthours)	45,451,850	27
Direct Use (megawatthours).....	2,055,476	19
Average Retail Price (cents/kWh).....	6.24	29

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Mississippi			
1. Victor J Daniel Jr	Petroleum, Gas, Coal	Mississippi Power Co	1,965
2. Grand Gulf.....	Nuclear	Entergy Operations Inc	1,231
3. Baxter Wilson	Petroleum, Gas	Entergy Mississippi Inc	1,215
4. Jack Watson.....	Gas, Coal	Mississippi Power Co	1,074
5. Batesville Generation.....	Gas	LSP Energy Ltd Partnership	766
6. Gerald Andrus.....	Petroleum, Gas	Entergy Mississippi Inc	761
7. Southaven Energy Faci.....	Gas	Duke Energy Southaven LLC	624
8. Enterprise Energy Fac	Gas	Duke Energy Enterprise LLC	600
9. Attala Generating LLC.....	Gas	Attala Generating Co LLC	459
10. Hinds Energy Facility	Gas	Duke Energy Hinds LLC	450

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Mississippi					
A. Entergy Mississippi, Inc	12,829,410	5,092,000	4,445,079	2,910,241	382,090
B. Mississippi Power Company	9,403,846	2,300,017	2,902,291	4,161,902	39,636
C. Tennessee Valley Authority	3,005,423	0	0	3,005,423	0
D. Southern Pine Elec Power Assn	1,738,555	870,394	245,123	622,180	858
E. Coast Electric Power Assn	1,462,390	984,841	234,780	219,429	23,340
Total	28,439,624	9,247,252	7,827,273	10,919,175	445,924
Percentage of Utility Sales.....	63	52	66	73	55

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Mississippi							
Coal	2,238	2,131	2,225	-0.1	30.2	28.3	16.3
Petroleum	31	31	36	1.7	.4	.4	.3
Natural Gas	520	686	2,180	17.3	7.0	9.1	15.9
Dual Fired	3,114	3,112	3,216	.4	42.0	41.3	23.5
Nuclear	1,143	1,200	1,231	.8	15.4	15.9	9.0
Total Electric Utilities	7,045	7,159	8,888	2.6	95.1	94.9	64.9
Coal	0	0	440	NM	.0	.0	3.2
Petroleum	1	1	0	NM	.0	.0	.0
Natural Gas	67	71	4,080	57.9	.9	.9	29.8
Other Gases	0	0	4	NM	.0	.0	.0
Other Renewables	294	310	279	-6	4.0	4.1	2.0
Total IPP's & Combined Heat and Power	362	382	4,803	33.3	4.9	5.1	35.1
Coal	2,238	2,131	2,665	2.0	30.2	28.3	19.5
Petroleum	32	32	36	1.2	.4	.4	.3
Natural Gas	586	757	6,260	30.1	7.9	10.0	45.7
Other Gases	0	0	4	NM	.0	.0	.0
Dual Fired	3,114	3,112	3,216	.4	42.0	41.3	23.5
Nuclear	1,143	1,200	1,231	.8	15.4	15.9	9.0
Other Renewables	294	310	279	-6	4.0	4.1	2.0
Total Electric Industry	7,407	7,541	13,691	7.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Mississippi							
Coal	8,819,755	12,500,586	12,483,658	3.9	34.0	37.1	29.1
Petroleum	3,545,055	2,633,109	26,357	-42.0	13.7	7.8	.1
Natural Gas	2,965,671	5,281,362	12,529,809	17.4	11.4	15.7	29.2
Nuclear	7,903,547	10,812,562	10,059,459	2.7	30.5	32.1	23.4
Total Electric Utilities	23,234,028	31,227,619	35,099,283	4.7	89.6	92.7	81.8
Coal	60,459	45,948	2,369,485	50.3	.2	.1	5.5
Petroleum	55,485	11,111	3,945	-25.5	.2	.0	.0
Natural Gas	638,976	772,766	4,441,589	24.0	2.5	2.3	10.4
Other Gases	0	0	37,916	NM	.0	.0	.1
Hydroelectric	0	0	12,129	NM	.0	.0	.0
Other Renewables	1,952,578	1,621,509	936,595	-7.8	7.5	4.8	2.2
Total IPP's & Combined Heat and Power	2,707,497	2,451,333	7,801,659	12.5	10.4	7.3	18.2
Coal	8,880,214	12,546,534	14,853,143	5.9	34.2	37.3	34.6
Petroleum	3,600,540	2,644,220	30,302	-41.2	13.9	7.9	.1
Natural Gas	3,604,647	6,054,128	16,971,398	18.8	13.9	18.0	39.6
Other Gases	0	0	37,916	NM	.0	.0	.1
Nuclear	7,903,547	10,812,562	10,059,459	2.7	30.5	32.1	23.4
Hydroelectric	0	0	12,129	NM	.0	.0	.0
Other Renewables	1,952,578	1,621,509	936,595	-7.8	7.5	4.8	2.2
Total Electric Industry	25,941,525	33,678,952	42,900,941	5.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Mississippi				
Coal (2002 cents per million Btu)	183.0	159.0	159.5	-1.5
Average heat value (Btu per pound).....	12,338	10,486	9,576	-2.8
Average sulfur Content(percent)	1.4	.7	.6	-8.5
Petroleum (2002 cents per million Btu)	196.4	276.5	427.7	9.0
Average heat value (Btu per gallon).....	153,438	156,868	140,924	-.9
Average sulfur Content(percent)	2.7	2.2	1.4	-7.4
Gas (2002 cents per million Btu).....	269.4	269.5	346.4	2.8
Average heat value (Btu per cubic foot).....	1,022	1,036	1,026	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Mississippi				
Sulfur Dioxide				
Coal	89	76	57	-4.8
Petroleum	53	37	*	-51.8
Gas.....	0	0	*	NM
Other.....	6	5	4	-2.7
Total	147	118	62	-9.2
Nitrogen Oxide				
Coal	33	30	30	-.8
Petroleum	6	9	*	-46.8
Gas.....	6	13	15	10.5
Other.....	2	1	1	-4.3
Total	46	54	46	.1
Carbon Dioxide				
Coal	9,524	13,206	15,689	5.7
Petroleum	3,064	2,279	31	-39.9
Gas.....	2,827	4,976	9,825	14.8
Total	15,415	20,461	25,545	5.8

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Mississippi							
Retail Sales (thousand megawatthours)							
Residential.....	13,200	14,817	17,844	3.4	38.0	37.0	39.3
Commercial.....	6,685	9,955	11,773	6.5	19.2	24.8	25.9
Industrial.....	14,229	14,622	15,021	.6	40.9	36.5	33.0
Other.....	635	694	815	2.8	1.8	1.7	1.8
Total.....	34,749	40,089	45,452	3.0	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,048	1,069	1,299	2.4	43.8	43.9	45.8
Commercial.....	555	685	804	4.2	23.2	28.1	28.4
Industrial.....	728	619	661	-1.1	30.4	25.4	23.3
Other.....	62	61	71	1.6	2.6	2.5	2.5
Total.....	2,392	2,435	2,835	1.9	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.94	7.22	7.28	-.9	NA	NA	NA
Commercial.....	8.30	6.88	6.83	-2.1	NA	NA	NA
Industrial.....	5.11	4.24	4.40	-1.7	NA	NA	NA
Other.....	9.69	8.85	8.76	-1.1	NA	NA	NA
Total.....	6.88	6.07	6.24	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Mississippi						
Number of Entities.....	2	25	0	24	0	51
Number of Retail Customers.....	600,277	192,469	0	613,337	0	1,406,083
Retail Sales (thousand megawatthours).....	22,233	8,518	0	14,701	0	45,452
Percentage of Retail Sales.....	48.92	18.74	.00	32.34	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,415	432	0	988	0	2,835
Percentage of Revenue.....	49.90	15.24	.00	34.86	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.36	5.07	.00	6.72	0	6.24

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Missouri		
NERC Region(s).....		SPP/MAIN
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,803	18
Electric Utilities	18,409	13
Independent Power Producers & Combined Heat and Power	1,394	36
Net Generation (megawatthours).....	81,162,198	20
Electric Utilities	79,796,801	14
Independent Power Producers & Combined Heat and Power	1,365,397	42
Emissions (thousand short tons)		
Sulfur Dioxide.....	246	16
Nitrogen Oxide.....	142	14
Carbon Dioxide.....	77,663	12
Sulfur Dioxide/sq. mile.....	4	25
Nitrogen Oxide/sq. mile.....	2	22
Carbon Dioxide/sq. mile.....	1,127	25
Utility and ESP Retail Electricity Sales (megawatthours).....	75,000,629	19
Utility Retail Electricity Sales (megawatthours)	75,000,629	19
Direct Use (megawatthours).....	284,279	36
Average Retail Price (cents/kWh).....	6.09	32

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Missouri			
1. Labadie.....	Petroleum, Coal	Union Electric Co	2,300
2. Rush Island	Petroleum, Coal	Union Electric Co	1,166
3. New Madrid.....	Petroleum, Coal	Associated Electric Coop Inc	1,160
4. Callaway.....	Nuclear	Union Electric Co	1,143
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	950
8. Meramec.....	Petroleum, Gas, Coal	Union Electric Co	931
9. Iatan.....	Petroleum, Coal	Kansas City Power & Light Co	670
10. Audrain Generating St.....	Gas	NRG South Central Ops Inc	640

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Missouri					
A. Union Electric Company	32,261,745	12,864,857	13,482,191	5,798,346	116,351
B. Kansas City Power & Light Co.....	8,186,087	2,453,540	4,075,116	1,593,063	64,368
C. UtiliCorp United, Inc.....	6,930,424	3,041,865	2,179,856	1,289,371	419,332
D. Empire District Electric Co.....	3,734,580	1,520,693	1,277,276	847,154	89,457
E. City of Springfield	2,801,483	887,043	1,423,018	451,887	39,535
Total	53,914,319	20,767,998	22,437,457	9,979,821	729,043
Percentage of Utility Sales.....	72	66	84	65	62

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Missouri							
Coal	10,738	10,920	11,053	0.3	69.1	66.9	55.8
Petroleum	1,026	1,084	1,121	1.0	6.6	6.6	5.7
Natural Gas	312	625	1,551	19.5	2.0	3.8	7.8
Dual Fired	1,122	1,331	2,342	8.5	7.2	8.2	11.8
Nuclear	1,125	1,143	1,143	.2	7.2	7.0	5.8
Hydroelectric	1,110	1,110	1,200	.9	7.1	6.8	6.1
Total Electric Utilities	15,433	16,212	18,409	2.0	99.3	99.4	93.0
Coal	102	93	96	-.7	.7	.6	.5
Petroleum	2	8	11	20.4	.0	.0	.1
Natural Gas	6	3	1,265	80.9	.0	.0	6.4
Dual Fired	1	1	23	42.8	.0	.0	.1
Total IPP's & Combined Heat and Power	111	106	1,394	32.5	.7	.6	7.0
Coal	10,840	11,014	11,148	.3	69.7	67.5	56.3
Petroleum	1,028	1,092	1,131	1.1	6.6	6.7	5.7
Natural Gas	318	628	2,816	27.4	2.0	3.8	14.2
Dual Fired	1,123	1,331	2,365	8.6	7.2	8.2	11.9
Nuclear	1,125	1,143	1,143	.2	7.2	7.0	5.8
Hydroelectric	1,110	1,110	1,200	.9	7.1	6.8	6.1
Total Electric Industry	15,544	16,318	19,803	2.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Missouri							
Coal	40,688,696	59,903,073	67,147,996	5.7	76.0	83.9	82.7
Petroleum	634,432	125,449	528,353	-2.0	1.2	.2	.7
Natural Gas	386,378	570,084	2,477,701	22.9	.7	.8	3.1
Nuclear	8,381,333	8,954,604	8,389,629	.0	15.7	12.5	10.3
Hydroelectric	3,110,176	1,478,325	1,197,924	-10.1	5.8	2.1	1.5
Other Renewables	1,253	41,704	55,198	52.3	.0	.1	.1
Total Electric Utilities	53,202,268	71,073,239	79,796,801	4.6	99.3	99.6	98.3
Coal	295,264	247,207	286,971	-.3	.6	.3	.4
Petroleum	846	14,073	1,042	2.3	.0	.0	.0
Natural Gas	53,596	28,326	1,066,237	39.4	.1	.0	1.3
Other Renewables	995	11,340	11,147	30.8	.0	.0	.0
Total IPP's & Combined Heat and Power	350,700	300,947	1,365,397	16.3	.7	.4	1.7
Coal	40,983,960	60,150,280	67,434,967	5.7	76.5	84.3	83.1
Petroleum	635,278	139,522	529,395	-2.0	1.2	.2	.7
Natural Gas	439,974	598,410	3,543,938	26.1	.8	.8	4.4
Nuclear	8,381,333	8,954,604	8,389,629	.0	15.7	12.5	10.3
Hydroelectric	3,110,176	1,478,325	1,197,924	-10.1	5.8	2.1	1.5
Other Renewables	2,248	53,044	66,345	45.7	.0	.1	.1
Total Electric Industry	53,552,968	71,374,186	81,162,198	4.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Missouri				
Coal (2002 cents per million Btu)	138.0	96.0	89.6	-4.7
Average heat value (Btu per pound).....	9,860	8,994	8,822	-1.2
Average sulfur Content(percent)	1.0	.5	.4	-10.9
Petroleum (2002 cents per million Btu)	126.1	300.0	117.5	-8
Average heat value (Btu per gallon).....	83,796	123,144	134,476	5.4
Average sulfur Content(percent)	4.1	2.4	3.3	-2.3
Gas (2002 cents per million Btu).....	258.4	287.2	327.7	2.7
Average heat value (Btu per cubic foot).....	1,008	1,006	1,008	.0

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Missouri				
Sulfur Dioxide				
Coal	468	307	246	-6.9
Petroleum	5	4	*	-42.9
Gas.....	0	0	0	NM
Other.....	0	*	*	NM
Total	473	311	246	-7.0
Nitrogen Oxide				
Coal	201	199	141	-3.8
Petroleum	2	*	0	NM
Gas.....	1	1	1	2.4
Other.....	0	*	*	NM
Total	203	201	142	-3.9
Carbon Dioxide				
Coal	45,017	67,084	75,278	5.9
Petroleum	745	152	593	-2.5
Gas.....	312	460	1,792	21.4
Total	46,074	67,695	77,663	6.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Missouri							
Retail Sales (thousand megawatthours)							
Residential.....	24,182	26,595	31,684	3.0	41.3	40.5	42.3
Commercial.....	19,914	22,825	26,796	3.3	34.0	34.8	35.7
Industrial.....	13,618	15,267	15,341	1.3	23.2	23.3	20.5
Other.....	908	985	1,179	2.9	1.5	1.5	1.6
Total.....	58,622	65,673	75,001	2.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,957	1,937	2,238	1.5	47.3	47.1	49.0
Commercial.....	1,389	1,408	1,576	1.4	33.6	34.2	34.5
Industrial.....	715	700	679	-6	17.3	17.0	14.9
Other.....	72	69	73	.2	1.7	1.7	1.6
Total.....	4,132	4,113	4,565	1.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.09	7.28	7.06	-1.5	NA	NA	NA
Commercial.....	6.97	6.17	5.88	-1.9	NA	NA	NA
Industrial.....	5.25	4.58	4.42	-1.9	NA	NA	NA
Other.....	7.91	6.95	6.20	-2.7	NA	NA	NA
Total.....	7.05	6.26	6.09	-1.6	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Missouri						
Number of Entities.....	0	97	0	39	0	136
Number of Retail Customers.....	0	2,260,443	0	622,880	0	2,883,323
Retail Sales (thousand megawatthours).....	0	61,749	0	13,252	0	75,001
Percentage of Retail Sales.....	.00	82.33	.00	17.67	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	0	3,788	0	777	0	4,565
Percentage of Revenue.....	.00	82.97	.00	17.03	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	.00	6.13	.00	5.87	0	6.09

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Montana		
NERC Region(s).....		WSCC/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	5,172	40
Electric Utilities	2,232	39
Independent Power Producers & Combined Heat and Power	2,939	26
Net Generation (megawatthours).....	25,473,706	41
Electric Utilities	6,726,239	41
Independent Power Producers & Combined Heat and Power	18,747,467	14
Emissions (thousand short tons)		
Sulfur Dioxide.....	45	38
Nitrogen Oxide.....	39	37
Carbon Dioxide.....	18,302	38
Sulfur Dioxide/sq. mile.....	0	45
Nitrogen Oxide/sq. mile.....	0	46
Carbon Dioxide/sq. mile.....	126	46
Utility and ESP Retail Electricity Sales (megawatthours).....	12,574,530	41
Utility Retail Electricity Sales (megawatthours)	10,323,186	42
ESP Retail Electricity Sales (megawatthours).....	2,251,344	11
Direct Use (megawatthours).....	-335,980	48
Average Retail Price (cents/kWh).....	5.75	39

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Montana			
1. Colstrip.....	Gas, Petroleum, Coal	PPL Montana LLC	2,094
2. Libby	Hydro	USCE-North Pacific Division	604
3. Noxon Rapids	Hydro	Avista Corporation	527
4. Hungry Horse.....	Hydro	U S Bureau of Reclamation	428
5. Yellowtail.....	Hydro	U S Bureau of Reclamation	287
6. Fort Peck.....	Hydro	USCE-Missouri River District	212
7. Kerr	Hydro	PPL Montana LLC	190
8. J E Corette Plant.....	Gas, Coal	PPL Montana LLC	150
9. Thompson Falls	Hydro	PPL Montana LLC	88
10. Ryan.....	Hydro	PPL Montana LLC	60

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Montana					
A. Montana Power Company.....	4,872,363	2,028,621	2,372,317	419,587	51,838
B. PPL EnergyPlus LLC	1,563,435	0	0	1,563,435	0
C. Flathead Electric Coop, Inc.....	1,352,177	528,966	375,334	437,179	10,698
D. Hinson Power Company, Inc	1,139,849	0	0	1,139,849	0
E. MDU Resources Group, Inc	566,208	148,311	200,595	202,497	14,805
Total	9,494,032	2,705,898	2,948,246	3,762,547	77,341
Percentage of Utility Sales.....	76	67	80	83	24

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Montana							
Coal	2,260	2,294	52	-34.2	45.8	45.3	1.0
Petroleum	0	5	0	NM	.0	.1	.0
Natural Gas	70	0	0	NM	1.4	.0	.0
Dual Fired	50	53	58	1.6	1.0	1.0	1.1
Hydroelectric	2,478	2,591	2,122	-1.7	50.3	51.2	41.0
Other Renewables	13	0	0	NM	.3	.0	.0
Total Electric Utilities	4,871	4,943	2,232	-8.3	98.8	97.6	43.2
Coal	39	39	2,244	56.9	.8	.8	43.4
Petroleum	0	61	90	NM	.0	1.2	1.7
Hydroelectric	11	11	595	55.7	.2	.2	11.5
Other Renewables	10	10	11	.5	.2	.2	.2
Total IPP's & Combined Heat and Power	60	121	2,939	54.0	1.2	2.4	56.8
Coal	2,299	2,333	2,296	.0	46.6	46.1	44.4
Petroleum	0	66	90	NM	.0	1.3	1.7
Natural Gas	70	0	0	NM	1.4	.0	.0
Dual Fired	50	53	58	1.6	1.0	1.0	1.1
Hydroelectric	2,490	2,602	2,717	1.0	50.5	51.4	52.5
Other Renewables	23	10	11	-8.0	.5	.2	.2
Total Electric Industry	4,931	5,064	5,172	.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Montana							
Coal	13,774,690	14,409,921	285,747	-35.0	57.7	50.4	1.1
Petroleum	20,885	17,228	720	-31.2	.1	.1	.0
Natural Gas	24,159	31,625	6,747	-13.2	.1	.1	.0
Hydroelectric	9,549,364	13,348,499	6,433,025	-4.3	40.0	46.7	25.3
Other Renewables	78,224	0	0	NM	.3	.0	.0
Total Electric Utilities	23,447,322	27,807,273	6,726,239	-13.0	98.2	97.3	26.4
Coal	308,168	206,099	15,052,082	54.0	1.3	.7	59.1
Petroleum	1,184	419,404	468,939	94.4	.0	1.5	1.8
Natural Gas	10,761	16,986	9,932	-9	.0	.1	.0
Other Gases	0	30,861	19,160	NM	.0	.1	.1
Hydroelectric	64,724	57,995	3,133,884	53.9	.3	.2	12.3
Other Renewables	40,695	48,329	63,470	5.1	.2	.2	.2
Total IPP's & Combined Heat and Power	425,533	779,673	18,747,467	52.3	1.8	2.7	73.6
Coal	14,082,858	14,616,020	15,337,829	1.0	59.0	51.1	60.2
Petroleum	22,069	436,632	469,659	40.5	.1	1.5	1.8
Natural Gas	34,920	48,611	16,679	-7.9	.1	.2	.1
Other Gases	0	30,861	19,160	NM	.0	.1	.1
Hydroelectric	9,614,088	13,406,494	9,566,909	-1	40.3	46.9	37.6
Other Renewables	118,919	48,329	63,470	-6.7	.5	.2	.2
Total Electric Industry	23,872,855	28,586,946	25,473,706	.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Montana				
Coal (2002 cents per million Btu)	77.3	70.2	60.9	-2.6
Average heat value (Btu per pound).....	8,496	8,426	8,461	*
Average sulfur Content(percent) .....	.7	.7	.6	-2
Petroleum (2002 cents per million Btu)	585.9	544.1	219.0	-10.3
Average heat value (Btu per gallon).....	141,000	141,000	137,748	-3
Average sulfur Content(percent) .....	.0	.0	3.7	NM
Gas (2002 cents per million Btu).....	298.9	1385.9	357.5	2.0
Average heat value (Btu per cubic foot).....	1,165	1,071	1,016	-1.5

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Montana				
Sulfur Dioxide				
Coal	20	20	26	2.6
Petroleum	*	*	19	150.1
Gas.....	0	0	0	NM
Other.....	*	*	*	4.4
Total	21	20	45	9.1
Nitrogen Oxide				
Coal	52	36	36	-3.9
Petroleum	*	1	1	66.9
Gas.....	*	*	2	51.0
Other.....	*	*	*	6.1
Total	52	37	39	-3.0
Carbon Dioxide				
Coal	16,509	16,967	17,593	.7
Petroleum	24	404	678	45.0
Gas.....	26	59	32	2.4
Total	16,559	17,429	18,302	1.1

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Montana							
Retail Sales (thousand megawatthours)							
Residential.....	3,598	3,804	4,030	1.3	27.8	31.9	32.0
Commercial.....	3,026	3,293	3,707	2.3	23.4	27.6	29.5
Industrial.....	5,837	4,537	4,511	-2.8	45.1	38.1	35.9
Other.....	469	284	326	-3.9	3.6	2.4	2.6
Total.....	12,929	11,917	12,575	-3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	231	250	291	2.6	36.8	39.3	40.3
Commercial.....	172	196	242	3.9	27.3	30.8	33.4
Industrial.....	202	170	167	-2.1	32.1	26.8	23.1
Other.....	24	19	23	-1	3.8	3.1	3.2
Total.....	629	636	724	1.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	6.43	6.58	7.23	1.3	NA	NA	NA
Commercial.....	5.68	5.96	6.53	1.6	NA	NA	NA
Industrial.....	3.46	3.76	3.70	.8	NA	NA	NA
Other.....	5.02	6.86	7.14	4.0	NA	NA	NA
Total.....	4.86	5.34	5.75	1.9	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Montana						
Number of Entities.....	3	8	2	26	4	43
Number of Retail Customers.....	321,559	25,601	18,229	143,659	915	509,963
Retail Sales (thousand megawatthours).....	5,452	1,653	352	2,866	2,251	12,575
Percentage of Retail Sales.....	43.35	13.15	2.80	22.79	17.90	100.00
Revenue from Retail Sales (million 2002 dollars).....	372	57	17	203	74	724
Percentage of Revenue.....	51.43	7.89	2.42	28.10	10.17	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.83	3.45	4.96	7.10	0	5.75

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Nebraska		
NERC Region(s).....		WSCC/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,069	37
Electric Utilities	6,052	30
Independent Power Producers & Combined Heat and Power	17	50
Net Generation (megawatthours).....	31,618,493	37
Electric Utilities	31,550,226	31
Independent Power Producers & Combined Heat and Power	68,267	50
Emissions (thousand short tons)		
Sulfur Dioxide.....	68	32
Nitrogen Oxide.....	47	32
Carbon Dioxide.....	22,788	36
Sulfur Dioxide/sq. mile.....	1	36
Nitrogen Oxide/sq. mile.....	1	41
Carbon Dioxide/sq. mile.....	296	41
Utility and ESP Retail Electricity Sales (megawatthours).....	25,661,061	36
Utility Retail Electricity Sales (megawatthours)	25,661,061	36
Direct Use (megawatthours).....	60,256	40
Average Retail Price (cents/kWh).....	5.55	45

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Nebraska			
1. Gerald Gentleman.....	Gas, Coal	Nebraska Public Power District	1,365
2. Cooper.....	Nuclear	Nebraska Public Power District	758
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. Sarpy County	Petroleum, Gas	Omaha Public Power District	314
7. Rokeby	Petroleum, Gas	Lincoln Electric System	265
8. Sheldon.....	Gas, Coal	Nebraska Public Power District	225
9. Lon Wright.....	Gas, Coal	Fremont City of	120
10. Jones Street	Petroleum	Omaha Public Power District	118

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Nebraska					
A. Omaha Public Power District.....	8,772,187	3,136,085	3,264,938	2,289,572	81,592
B. Lincoln Electric System.....	2,926,216	1,057,046	1,053,336	542,708	273,126
C. Nebraska Public Power District	2,913,867	784,530	834,515	1,110,503	184,319
D. Loup River Public Power Dist.....	992,939	221,889	135,447	585,688	49,915
E. Southern Public Power District	787,825	228,488	30,090	357,979	171,268
Total	16,393,034	5,428,038	5,318,326	4,886,450	760,220
Percentage of Utility Sales.....	64	61	72	65	43

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Nebraska							
Coal	3,103	3,152	3,196	0.3	56.2	54.6	52.7
Petroleum	250	262	298	2.0	4.5	4.5	4.9
Natural Gas	13	5	2	-19.7	.2	.1	.0
Dual Fired	725	925	1,149	5.3	13.1	16.0	18.9
Nuclear	1,254	1,250	1,234	-2	22.7	21.7	20.3
Hydroelectric	168	167	167	.0	3.0	2.9	2.8
Other Renewables	0	0	6	NM	.0	.0	.1
Total Electric Utilities	5,512	5,760	6,052	1.0	99.8	99.8	99.7
Coal	8	7	8	-5	.2	.1	.1
Petroleum	0	0	1	NM	.0	.0	.0
Natural Gas	0	1	1	NM	.0	.0	.0
Dual Fired	0	0	2	NM	.0	.0	.0
Other Renewables	0	4	5	NM	.0	.1	.1
Total IPP's & Combined Heat and Power	8	12	17	8.3	.2	.2	.3
Coal	3,111	3,159	3,204	.3	56.4	54.7	52.8
Petroleum	250	262	299	2.0	4.5	4.5	4.9
Natural Gas	13	6	3	-14.4	.2	.1	.1
Dual Fired	725	925	1,152	5.3	13.1	16.0	19.0
Nuclear	1,254	1,250	1,234	-2	22.7	21.7	20.3
Hydroelectric	168	167	167	.0	3.0	2.9	2.8
Other Renewables	0	4	10	NM	.0	.1	.2
Total Electric Industry	5,520	5,772	6,069	1.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Nebraska							
Coal	14,739,783	17,209,080	19,899,803	3.4	64.8	60.5	62.9
Petroleum	19,035	31,059	18,410	-.4	.1	.1	.1
Natural Gas	152,922	205,991	404,106	11.4	.7	.7	1.3
Other Gases.....	0	0	101	NM	.0	.0	.0
Nuclear	6,805,133	9,268,857	10,122,242	4.5	29.9	32.6	32.0
Hydroelectric.....	1,001,663	1,672,419	1,097,486	1.0	4.4	5.9	3.5
Other Renewables.....	5,750	624	8,078	3.8	.0	.0	.0
Total Electric Utilities	22,724,286	28,388,030	31,550,226	3.7	99.8	99.8	99.8
Coal	36,428	39,557	44,104	2.1	.2	.1	.1
Petroleum	0	0	2,139	NM	.0	.0	.0
Natural Gas	143	5,309	9,032	58.6	.0	.0	.0
Other Renewables.....	0	16,370	12,993	NM	.0	.1	.0
Total IPP's & Combined Heat and Power	36,570	61,236	68,267	7.2	.2	.2	.2
Coal	14,776,211	17,248,637	19,943,907	3.4	64.9	60.6	63.1
Petroleum	19,035	31,059	20,549	.9	.1	.1	.1
Natural Gas	153,065	211,300	413,138	11.7	.7	.7	1.3
Other Gases.....	0	0	101	NM	.0	.0	.0
Nuclear	6,805,133	9,268,857	10,122,242	4.5	29.9	32.6	32.0
Hydroelectric.....	1,001,663	1,672,419	1,097,486	1.0	4.4	5.9	3.5
Other Renewables.....	5,750	16,994	21,071	15.5	.0	.1	.1
Total Electric Industry.....	22,760,856	28,449,266	31,618,493	3.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Nebraska				
Coal (2002 cents per million Btu)	84.1	60.1	58.1	-4.0
Average heat value (Btu per pound).....	8,561	8,595	8,593	*
Average sulfur Content(percent) .....	.4	.3	.3	-1.8
Petroleum (2002 cents per million Btu)	276.1	462.8	554.8	8.1
Average heat value (Btu per gallon).....	107,947	137,568	138,150	2.8
Average sulfur Content(percent)	6.0	.0	.2	-32.7
Gas (2002 cents per million Btu).....	304.0	295.1	416.6	3.6
Average heat value (Btu per cubic foot).....	976	998	977	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Nebraska				
Sulfur Dioxide				
Coal	58	62	68	1.6
Petroleum	*	*	*	-9.2
Total	58	62	68	1.6
Nitrogen Oxide				
Coal	76	48	47	-5.2
Petroleum	*	*	*	7.4
Gas.....	*	*	*	6.1
Other.....	0	*	0	NM
Total	76	49	47	-5.2
Carbon Dioxide				
Coal	16,925	19,728	22,471	3.2
Petroleum	20	33	21	1.0
Gas.....	108	160	296	11.8
Total	17,053	19,921	22,788	3.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Nebraska							
Retail Sales (thousand megawatthours)							
Residential.....	7,226	7,989	8,956	2.4	38.5	35.4	34.9
Commercial.....	5,471	6,500	7,384	3.4	29.2	28.8	28.8
Industrial	4,963	6,580	7,563	4.8	26.5	29.1	29.5
Other	1,089	1,514	1,758	5.5	5.8	6.7	6.8
Total	18,749	22,582	25,661	3.5	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	503	524	603	2.0	43.5	42.6	42.3
Commercial.....	346	365	415	2.0	29.9	29.7	29.1
Industrial	223	244	294	3.1	19.3	19.9	20.6
Other	85	96	112	3.1	7.3	7.8	7.9
Total	1,157	1,229	1,424	2.3	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	6.96	6.56	6.73	-4	NA	NA	NA
Commercial.....	6.32	5.61	5.62	-1.3	NA	NA	NA
Industrial	4.50	3.71	3.89	-1.6	NA	NA	NA
Other	7.79	6.36	6.37	-2.2	NA	NA	NA
Total	6.17	5.44	5.55	-1.2	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Nebraska						
Number of Entities	0	155	0	7	0	162
Number of Retail Customers	0	905,366	0	16,569	0	921,935
Retail Sales (thousand megawatthours).....	0	25,183	0	478	0	25,661
Percentage of Retail Sales.....	.00	98.14	.00	1.86	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	0	1,389	0	35	0	1,424
Percentage of Revenue.....	.00	97.56	.00	2.44	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	.00	5.52	.00	7.26	0	5.55

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Nevada		
NERC Region(s).....		WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,856	35
Electric Utilities	5,384	33
Independent Power Producers & Combined Heat and Power	1,472	35
Net Generation (megawatthours).....	32,088,935	36
Electric Utilities	25,008,568	35
Independent Power Producers & Combined Heat and Power	7,080,367	28
Emissions (thousand short tons)		
Sulfur Dioxide	49	35
Nitrogen Oxide	46	34
Carbon Dioxide	24,726	35
Sulfur Dioxide/sq. mile.....	0	42
Nitrogen Oxide/sq. mile.....	0	43
Carbon Dioxide/sq. mile.....	225	44
Utility and ESP Retail Electricity Sales (megawatthours).....	29,204,272	34
Utility Retail Electricity Sales (megawatthours)	29,204,272	34
Direct Use (megawatthours).....	145,166	38
Average Retail Price (cents/kWh).....	8.42	12

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Nevada			
1. Mohave.....	Gas, Coal	Southern California Edison Co	1,580
2. Hoover Dam.....	Hydro	U S Bureau of Reclamation	1,039
3. Clark.....	Gas	Nevada Power Co	700
4. Reid Gardner.....	Petroleum, Coal	Nevada Power Co	556
5. North Valmy	Petroleum, Coal	Sierra Pacific Power Co	522
6. Tracy	Petroleum, Gas	Sierra Pacific Power Co	491
7. El Dorado Energy	Gas	El Dorado Energy LLC	450
8. Tri Center Naniwa Ene	Gas	Naniwa Energy LLC	300
9. Fort Churchill.....	Petroleum, Gas	Sierra Pacific Power Co	226
10. Sun Peak Project.....	Gas	Nevada Sun-Peak Ltd Partners	222

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Nevada					
A. Nevada Power Company	17,599,820	7,240,325	3,662,436	6,293,991	403,068
B. Sierra Pacific Power Company	8,198,264	1,856,931	2,687,871	3,641,288	12,174
C. Colorado River Commission	1,431,642	0	676,849	754,793	0
D. Wells Rural Electric Company	654,482	45,958	44,594	556,224	7,706
E. Valley Electric Assn, Inc	340,748	202,510	138,164	0	74
Total	28,224,956	9,345,724	7,209,914	11,246,296	423,022
Percentage of Utility Sales.....	97	96	96	99	71

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Nevada							
Coal	2,717	2,806	2,658	-0.2	47.3	43.9	38.8
Petroleum	48	45	43	-1.4	.8	.7	.6
Natural Gas	202	502	414	8.3	3.5	7.9	6.0
Dual Fired	1,237	1,243	1,222	-.1	21.5	19.4	17.8
Hydroelectric	1,031	1,046	1,048	.2	18.0	16.4	15.3
Total Electric Utilities	5,235	5,642	5,384	.3	91.2	88.3	78.5
Natural Gas	89	154	1,071	31.9	1.5	2.4	15.6
Dual Fired	205	363	222	.9	3.6	5.7	3.2
Hydroelectric	4	4	4	.0	.1	.1	.1
Other Renewables	208	228	168	-2.3	3.6	3.6	2.5
Other	0	0	7	NM	.0	.0	.1
Total IPP's & Combined Heat and Power	506	749	1,472	12.6	8.8	11.7	21.5
Coal	2,717	2,806	2,658	-.2	47.3	43.9	38.8
Petroleum	48	45	43	-1.4	.8	.7	.6
Natural Gas	291	656	1,485	19.9	5.1	10.3	21.7
Dual Fired	1,442	1,606	1,444	.0	25.1	25.1	21.1
Hydroelectric	1,035	1,050	1,052	.2	18.0	16.4	15.3
Other Renewables	208	228	168	-2.3	3.6	3.6	2.5
Other	0	0	7	NM	.0	.0	.1
Total Electric Industry	5,741	6,391	6,856	2.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Nevada							
Coal	15,627,860	15,250,606	16,413,025	0.5	66.5	56.4	51.1
Petroleum	246,506	31,156	25,472	-22.3	1.0	.1	.1
Natural Gas	1,986,014	5,020,560	6,310,687	13.7	8.5	18.6	19.7
Hydroelectric	1,959,953	2,567,451	2,259,384	1.6	8.3	9.5	7.0
Total Electric Utilities	19,820,333	22,869,773	25,008,568	2.6	84.3	84.6	77.9
Petroleum	80,475	789	0	NM	.3	.0	.0
Natural Gas	2,047,184	2,537,255	5,899,973	12.5	8.7	9.4	18.4
Other Gases	0	0	44,909	NM	.0	.0	.1
Hydroelectric	12,227	19,523	8,202	-4.3	.1	.1	.0
Other Renewables	1,540,055	1,596,001	1,127,283	-3.4	6.6	5.9	3.5
Other	2,198	8,183	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	3,682,138	4,161,751	7,080,367	7.5	15.7	15.4	22.1
Coal	15,627,860	15,250,606	16,413,025	.5	66.5	56.4	51.1
Petroleum	326,981	31,945	25,472	-24.7	1.4	.1	.1
Natural Gas	4,033,198	7,557,815	12,210,660	13.1	17.2	28.0	38.1
Other Gases	0	0	44,909	NM	.0	.0	.1
Hydroelectric	1,972,180	2,586,974	2,267,586	1.6	8.4	9.6	7.1
Other Renewables	1,540,055	1,596,001	1,127,283	-3.4	6.6	5.9	3.5
Other	2,198	8,183	0	NM	.0	.0	.0
Total Electric Industry	23,502,471	27,031,524	32,088,935	3.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Nevada				
Coal (2002 cents per million Btu)	163.7	143.1	133.9	-2.2
Average heat value (Btu per pound).....	11,012	11,169	10,177	-9
Average sulfur Content(percent) .....	.5	.5	.5	.9
Petroleum (2002 cents per million Btu)	399.4	521.7	600.2	4.6
Average heat value (Btu per gallon).....	148,546	138,761	140,174	-6
Average sulfur Content(percent) .....	.8	.0	.3	-9.7
Gas (2002 cents per million Btu).....	265.0	217.7	438.4	5.8
Average heat value (Btu per cubic foot).....	1,029	1,029	1,020	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Nevada				
Sulfur Dioxide				
Coal	52	51	49	-0.6
Petroleum	1	*	*	-32.7
Gas.....	*	*	*	12.1
Total	53	51	49	-9
Nitrogen Oxide				
Coal	62	39	39	-5.0
Petroleum	*	*	*	-26.9
Gas.....	3	8	7	9.2
Other.....	*	*	0	NM
Total	65	47	46	-3.8
Carbon Dioxide				
Coal	17,251	16,711	18,332	.7
Petroleum	283	34	24	-24.0
Gas.....	2,268	4,370	6,370	12.2
Total	19,801	21,115	24,726	2.5

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Nevada							
Retail Sales (thousand megawatthours)							
Residential.....	6,281	7,801	9,702	4.9	33.9	32.2	33.2
Commercial.....	4,298	5,454	7,538	6.4	23.2	22.5	25.8
Industrial.....	7,181	10,034	11,373	5.2	38.8	41.4	38.9
Other.....	740	930	592	-2.4	4.0	3.8	2.0
Total.....	18,499	24,219	29,204	5.2	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	455	543	915	8.1	37.6	38.9	37.2
Commercial.....	312	354	683	9.1	25.8	25.4	27.8
Industrial.....	403	462	824	8.3	33.3	33.1	33.5
Other.....	40	37	39	-4	3.3	2.6	1.6
Total.....	1,211	1,395	2,460	8.2	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.25	6.95	9.43	3.0	NA	NA	NA
Commercial.....	7.26	6.49	9.06	2.5	NA	NA	NA
Industrial.....	5.62	4.61	7.25	2.9	NA	NA	NA
Other.....	5.42	3.94	6.54	2.1	NA	NA	NA
Total.....	6.54	5.76	8.42	2.8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Nevada						
Number of Entities.....	1	14	0	5	0	20
Number of Retail Customers.....	650,358	317,383	0	12,762	0	980,503
Retail Sales (thousand megawatthours).....	17,600	10,669	0	936	0	29,204
Percentage of Retail Sales.....	60.26	36.53	.00	3.20	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,570	850	0	41	0	2,460
Percentage of Revenue.....	63.81	34.53	.00	1.65	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	8.92	7.96	.00	4.34	0	8.42

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
New Hampshire		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	3,427	43
Electric Utilities	1,105	43
Independent Power Producers & Combined Heat and Power	2,322	28
Net Generation (megawatthours).....	15,953,078	43
Electric Utilities	12,276,456	37
Independent Power Producers & Combined Heat and Power	3,676,622	35
Emissions (thousand short tons)		
Sulfur Dioxide	44	39
Nitrogen Oxide	8	47
Carbon Dioxide	4,986	45
Sulfur Dioxide/sq. mile.....	5	20
Nitrogen Oxide/sq. mile.....	1	34
Carbon Dioxide/sq. mile.....	556	31
Utility and ESP Retail Electricity Sales (megawatthours).....	10,490,029	44
Utility Retail Electricity Sales (megawatthours)	10,319,936	43
ESP Retail Electricity Sales (megawatthours).....	170,093	18
Direct Use (megawatthours).....	394,007	34
Average Retail Price (cents/kWh).....	10.49	6

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
New Hampshire			
1. Seabrook.....	Nuclear	FPL Energy Seabrook LLC	1,161
2. Newington Power Facil.....	Nuclear	Newington Energy LLC	525
3. Merrimack.....	Petroleum, Coal	Public Service Co of NH	449
4. Newington.....	Gas, Petroleum	Public Service Co of NH	400
5. S C Moore	Hydro	U S Gen New England Inc	184
6. Comerford	Hydro	U S Gen New England Inc	162
7. Schiller	Gas, Petroleum, Coal	Public Service Co of NH	160
8. Berlin Gorham	Petroleum, Other, Hydro	Great Lakes Hydro America LLC	29
9. Pinetree Power Tamwor.....	Other	Pinetree Power Tamworth Inc	20
10. Amoskeag.....	Hydro	Public Service Co of NH	18

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
New Hampshire					
A. Public Service Company of NH	7,403,568	2,765,211	2,968,628	1,646,481	23,248
B. Granite State Electric Company.....	744,950	267,526	382,326	91,909	3,189
C. New Hampshire Elec Coop, Inc.....	657,703	395,880	208,253	52,050	1,520
D. Exeter & Hampton Electric Co.....	626,419	286,727	141,021	165,144	33,527
E. Concord Electric Company.....	554,265	171,070	160,345	152,668	70,182
Total	9,986,905	3,886,414	3,860,573	2,108,252	131,666
Percentage of Utility Sales.....	95	96	96	92	92

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Hampshire							
Coal	578	578	575	0.0	20.8	20.6	16.8
Petroleum	66	66	48	-3.5	2.4	2.3	1.4
Dual Fired	423	423	417	-2	15.3	15.1	12.2
Nuclear	1,150	1,162	0	NM	41.5	41.4	.0
Hydroelectric	291	284	64	-15.5	10.5	10.1	1.9
Total Electric Utilities	2,508	2,512	1,105	-8.7	90.5	89.6	32.2
Petroleum	25	30	32	2.6	.9	1.1	.9
Natural Gas	0	0	543	NM	.0	.0	15.8
Dual Fired	5	7	7	4.1	.2	.2	.2
Nuclear	0	0	1,161	NM	.0	.0	33.9
Hydroelectric	89	88	449	19.7	3.2	3.1	13.1
Other Renewables	145	168	130	-1.1	5.2	6.0	3.8
Total IPP's & Combined Heat and Power	264	292	2,322	27.3	9.5	10.4	67.8
Coal	578	578	575	.0	20.8	20.6	16.8
Petroleum	92	96	80	-1.5	3.3	3.4	2.3
Natural Gas	0	0	543	NM	.0	.0	15.8
Dual Fired	428	430	424	-.1	15.4	15.3	12.4
Nuclear	1,150	1,162	1,161	.1	41.5	41.4	33.9
Hydroelectric	380	371	514	3.4	13.7	13.2	15.0
Other Renewables	145	168	130	-1.1	5.2	6.0	3.8
Total Electric Industry	2,771	2,804	3,427	2.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Hampshire							
Coal	3,263,241	4,077,225	3,722,386	1.5	20.1	25.7	23.3
Petroleum	1,262,688	1,007,545	595,575	-8.0	7.8	6.3	3.7
Natural Gas	11,503	35,108	95,547	26.5	.1	.2	.6
Nuclear	9,046,805	7,979,448	7,599,861	-1.9	55.7	50.2	47.6
Hydroelectric	1,001,769	1,165,007	263,087	-13.8	6.2	7.3	1.6
Total Electric Utilities	14,586,006	14,264,333	12,276,456	-1.9	89.8	89.8	77.0
Petroleum	41,885	62,277	54,134	2.9	.3	.4	.3
Natural Gas	0	11,786	124,823	NM	.0	.1	.8
Nuclear	0	0	1,694,756	NM	.0	.0	10.6
Hydroelectric	408,841	456,584	877,853	8.9	2.5	2.9	5.5
Other Renewables	1,206,029	1,085,242	925,057	-2.9	7.4	6.8	5.8
Total IPP's & Combined Heat and Power	1,656,754	1,615,889	3,676,622	9.3	10.2	10.2	23.0
Coal	3,263,241	4,077,225	3,722,386	1.5	20.1	25.7	23.3
Petroleum	1,304,573	1,069,822	649,709	-7.5	8.0	6.7	4.1
Natural Gas	11,503	46,894	220,370	38.8	.1	.3	1.4
Nuclear	9,046,805	7,979,448	9,294,617	.3	55.7	50.2	58.3
Hydroelectric	1,410,610	1,621,591	1,140,940	-2.3	8.7	10.2	7.2
Other Renewables	1,206,029	1,085,242	925,057	-2.9	7.4	6.8	5.8
Total Electric Industry	16,242,760	15,880,222	15,953,078	-2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New Hampshire				
Coal (2002 cents per million Btu)	179.3	167.8	180.3	0.1
Average heat value (Btu per pound).....	13,179	13,054	13,017	-1
Average sulfur Content(percent)	1.6	1.4	1.2	-3.6
Petroleum (2002 cents per million Btu)	204.8	270.9	370.5	6.8
Average heat value (Btu per gallon).....	154,131	152,622	149,660	-3
Average sulfur Content(percent)	1.7	1.3	1.5	-1.7
Gas (2002 cents per million Btu).....	242.1	274.0	388.3	5.4
Average heat value (Btu per cubic foot).....	1,016	1,017	1,031	.2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New Hampshire				
Sulfur Dioxide				
Coal	40	49	39	-0.3
Petroleum	12	10	6	-7.9
Other.....	*	*	*	-6.8
Total	52	59	44	-1.7
Nitrogen Oxide				
Coal	20	18	6	-13.2
Petroleum	1	2	1	-2.6
Gas.....	*	*	*	35.7
Other.....	1	1	1	1.8
Total	23	21	8	-10.5
Carbon Dioxide				
Coal	3,600	4,528	4,141	1.6
Petroleum	1,306	1,040	691	-6.8
Gas.....	8	38	122	35.3
Other.....	31	32	32	.3
Total	4,945	5,639	4,986	.1

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Hampshire							
Retail Sales (thousand megawatthours)							
Residential.....	3,420	3,368	4,045	1.9	39.0	37.1	38.6
Commercial.....	2,123	3,248	4,014	7.3	24.2	35.8	38.3
Industrial.....	3,100	2,339	2,288	-3.3	35.4	25.8	21.8
Other.....	118	127	143	2.1	1.3	1.4	1.4
Total.....	8,761	9,081	10,490	2.0	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	469	473	476	.2	44.3	43.5	43.3
Commercial.....	260	379	405	5.0	24.6	34.8	36.8
Industrial.....	312	218	202	-4.7	29.5	20.0	18.4
Other.....	18	18	17	-.2	1.7	1.7	1.6
Total.....	1,059	1,088	1,100	.4	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	13.71	14.05	11.77	-1.7	NA	NA	NA
Commercial.....	12.27	11.66	10.09	-2.1	NA	NA	NA
Industrial.....	10.07	9.31	8.83	-1.4	NA	NA	NA
Other.....	14.81	14.45	12.07	-2.3	NA	NA	NA
Total.....	12.09	11.98	10.49	-1.6	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
New Hampshire						
Number of Entities.....	5	5	0	1	5	16
Number of Retail Customers.....	568,098	11,002	0	72,271	5,977	657,348
Retail Sales (thousand megawatthours).....	9,487	175	0	658	170	10,490
Percentage of Retail Sales.....	90.44	1.67	.00	6.27	1.62	100.00
Revenue from Retail Sales (million 2002 dollars).....	981	16	0	89	13	1,100
Percentage of Revenue.....	89.18	1.50	.00	8.13	1.19	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	10.34	9.42	.00	13.60	0	10.49

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
New Jersey		
NERC Region(s).....		MACC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	18,384	21
Electric Utilities	1,244	42
Independent Power Producers & Combined Heat and Power	17,140	6
Net Generation (megawatthours).....	61,569,387	22
Electric Utilities	1,569,056	44
Independent Power Producers & Combined Heat and Power	60,000,331	6
Emissions (thousand short tons)		
Sulfur Dioxide	49	36
Nitrogen Oxide	41	36
Carbon Dioxide	22,339	37
Sulfur Dioxide/sq. mile.....	7	17
Nitrogen Oxide/sq. mile.....	5	7
Carbon Dioxide/sq. mile.....	3,011	9
Utility and ESP Retail Electricity Sales (megawatthours).....	74,460,421	20
Utility Retail Electricity Sales (megawatthours)	73,368,045	20
ESP Retail Electricity Sales (megawatthours).....	1,092,376	12
Direct Use (megawatthours).....	14,141,784	4
Average Retail Price (cents/kWh).....	9.31	10

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
New Jersey			
1. PSEG Salem Generating	Petroleum, Nuclear	PSEG Nuclear LLC	2,259
2. Bergen	Other, Gas	PSEG Fossil LLC	1,224
3. PSEG Hudson Generatin.....	Other, Petroleum, Gas	PSEG Fossil LLC	1,120
4. PSEG Hope Creek Gener.....	Nuclear	PSEG Nuclear LLC	1,049
5. Linden Cogen Plant	Petroleum, Other, Gas	Cogen Technologies Linden Vent	900
6. PSEG Burlington Gener.....	Other, Gas	PSEG Fossil LLC	802
7. AES Red Oak LLC	Gas	AES Red Oak LLC	792
8. PSEG Mercer Generatin.....	Other, Gas, Coal	PSEG Fossil LLC	777
9. PSEG Linden Generatin.....	Other, Petroleum, Gas	PSEG Fossil LLC	775
10. PSEG Kearny Generatin.....	Other, Petroleum, Gas	PSEG Fossil LLC	764

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
New Jersey					
A. Public Service Electric&Gas Co.....	41,555,465	12,825,350	21,664,674	6,684,529	380,912
B. Jersey Central Power&Light Co	20,562,264	8,972,974	8,462,157	3,045,994	81,139
C. Atlantic City Electric Company.....	8,583,371	4,103,761	3,693,045	739,644	46,921
D. Rockland Electric Company.....	1,542,342	696,176	776,409	62,972	6,785
E. City of Vineland.....	481,649	134,608	136,624	206,041	4,376
Total	72,725,091	26,732,869	34,732,909	10,739,180	520,133
Percentage of Utility Sales.....	98	98	97	97	90

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Jersey							
Coal	1,644	1,635	387	-14.8	10.0	9.7	2.1
Petroleum	3,072	2,788	286	-23.2	18.8	16.5	1.6
Natural Gas	2,863	1,984	0	NM	17.5	11.8	.0
Dual Fired	2,038	3,015	171	-24.1	12.4	17.9	.9
Nuclear	3,853	3,862	0	NM	23.5	22.9	.0
Hydroelectric	380	400	400	.6	2.3	2.4	2.2
Total Electric Utilities	13,850	13,684	1,244	-23.5	84.6	81.2	6.8
Coal	262	483	1,737	23.4	1.6	2.9	9.4
Petroleum	1	27	1,996	123.4	.0	.2	10.9
Natural Gas	315	574	3,293	29.8	1.9	3.4	17.9
Other Gases	0	0	21	NM	.0	.0	.1
Dual Fired	1,808	1,897	6,024	14.3	11.0	11.3	32.8
Nuclear	0	0	3,875	NM	.0	.0	21.1
Hydroelectric	13	13	13	.5	.1	.1	.1
Other Renewables	129	178	181	3.8	.8	1.1	1.0
Total IPP's & Combined Heat and Power	2,528	3,171	17,140	23.7	15.4	18.8	93.2
Coal	1,906	2,118	2,124	1.2	11.6	12.6	11.6
Petroleum	3,073	2,814	2,282	-3.3	18.8	16.7	12.4
Natural Gas	3,178	2,558	3,293	.4	19.4	15.2	17.9
Other Gases	0	0	21	NM	.0	.0	.1
Dual Fired	3,846	4,912	6,195	5.4	23.5	29.1	33.7
Nuclear	3,853	3,862	3,875	.1	23.5	22.9	21.1
Hydroelectric	393	413	413	.6	2.4	2.4	2.2
Other Renewables	129	178	181	3.8	.8	1.1	1.0
Total Electric Industry	16,378	16,855	18,384	1.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Jersey							
Coal	5,465,762	6,821,610	1,416,711	-13.9	11.3	16.3	2.3
Petroleum	1,028,686	384,469	202,514	-16.5	2.1	.9	.3
Natural Gas	2,981,168	2,776,813	95,631	-31.8	6.2	6.7	.2
Nuclear	24,932,240	13,908,074	0	NM	51.6	33.3	.0
Hydroelectric	-123,234	-129,523	-145,800	NM	-.3	-.3	-.2
Total Electric Utilities	34,284,622	23,761,443	1,569,056	-29.0	70.9	56.9	2.5
Coal	9	2,076,596	8,188,343	360.5	.0	5.0	13.3
Petroleum	446,538	383,575	528,119	1.9	.9	.9	.9
Natural Gas	12,563,872	14,211,118	18,973,727	4.7	26.0	34.0	30.8
Other Gases	86,860	131,982	90,483	.5	.2	.3	.1
Nuclear	0	0	30,865,675	NM	.0	.0	50.1
Hydroelectric	19,005	18,371	12,030	-5.0	.0	.0	.0
Other Renewables	943,978	1,173,176	1,330,416	3.9	2.0	2.8	2.2
Other	0	0	11,538	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	14,060,261	17,994,817	60,000,331	17.5	29.1	43.1	97.5
Coal	5,465,771	8,898,206	9,605,054	6.5	11.3	21.3	15.6
Petroleum	1,475,224	768,044	730,633	-7.5	3.1	1.8	1.2
Natural Gas	15,545,040	16,987,931	19,069,358	2.3	32.2	40.7	31.0
Other Gases	86,860	131,982	90,483	.5	.2	.3	.1
Nuclear	24,932,240	13,908,074	30,865,675	2.4	51.6	33.3	50.1
Hydroelectric	-104,229	-111,152	-133,770	NM	-.2	-.3	-.2
Other Renewables	943,978	1,173,176	1,330,416	3.9	2.0	2.8	2.2
Other	0	0	11,538	NM	.0	.0	.0
Total Electric Industry	48,344,883	41,756,260	61,569,387	2.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New Jersey				
Coal (2002 cents per million Btu)	197.6	180.4	187.3	-0.6
Average heat value (Btu per pound)	13,397	13,084	12,853	-.5
Average sulfur Content(percent)	1.3	1.2	1.2	-.5
Petroleum (2002 cents per million Btu)	298.8	307.0	468.0	5.1
Average heat value (Btu per gallon)	149,284	148,489	141,631	-.6
Average sulfur Content(percent) .....	.4	.4	.4	*
Gas (2002 cents per million Btu)	256.3	303.3	404.4	5.2
Average heat value (Btu per cubic foot)	1,034	1,037	1,032	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New Jersey				
Sulfur Dioxide				
Coal	56	54	47	-2.1
Petroleum	7	3	2	-14.2
Gas.....	*	*	*	-13.7
Other.....	*	*	*	5.8
Total	64	57	49	-2.9
Nitrogen Oxide				
Coal	33	39	27	-2.1
Petroleum	2	*	1	-7.2
Gas.....	12	14	9	-3.8
Other.....	2	2	4	10.0
Total	48	57	41	-1.9
Carbon Dioxide				
Coal	5,834	9,798	10,499	6.8
Petroleum	1,378	596	830	-5.5
Gas.....	8,352	8,529	10,738	2.8
Other.....	143	203	272	7.4
Total	15,706	19,126	22,339	4.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Jersey							
Retail Sales (thousand megawatthours)							
Residential.....	22,042	22,286	27,183	2.4	33.6	33.8	36.5
Commercial.....	28,493	29,753	35,684	2.5	43.4	45.1	47.9
Industrial	14,596	13,369	11,016	-3.1	22.2	20.3	14.8
Other	490	507	578	1.9	.8	.8	.8
Total	65,621	65,915	74,460	1.4	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	2,801	2,768	2,821	.1	38.4	38.8	40.7
Commercial.....	3,090	3,165	3,166	.3	42.3	44.3	45.7
Industrial	1,315	1,114	862	-4.6	18.0	15.6	12.4
Other	96	96	81	-1.8	1.3	1.3	1.2
Total	7,301	7,142	6,930	-6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.71	12.42	10.38	-2.2	NA	NA	NA
Commercial.....	10.84	10.64	8.87	-2.2	NA	NA	NA
Industrial	9.01	8.33	7.83	-1.5	NA	NA	NA
Other	19.54	18.85	14.04	-3.6	NA	NA	NA
Total	11.13	10.83	9.31	-2.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
New Jersey						
Number of Entities.....	4	9	0	1	12	26
Number of Retail Customers.....	3,631,508	55,770	0	11,138	6,151	3,704,567
Retail Sales (thousand megawatthours).....	72,243	988	0	137	1,092	74,460
Percentage of Retail Sales.....	97.02	1.33	.00	.18	1.47	100.00
Revenue from Retail Sales (million 2002 dollars).....	6,763	101	0	15	51	6,930
Percentage of Revenue.....	97.59	1.46	.00	.22	.73	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	9.36	10.26	.00	10.91	0	9.31

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
New Mexico		
NERC Region(s).....		SPP/WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	5,936	38
Electric Utilities	5,463	32
Independent Power Producers & Combined Heat and Power	473	44
Net Generation (megawatthours).....	30,661,707	40
Electric Utilities	29,926,241	34
Independent Power Producers & Combined Heat and Power	735,466	45
Emissions (thousand short tons)		
Sulfur Dioxide.....	51	33
Nitrogen Oxide.....	79	27
Carbon Dioxide.....	31,311	31
Sulfur Dioxide/sq. mile.....	0	43
Nitrogen Oxide/sq. mile.....	1	40
Carbon Dioxide/sq. mile.....	258	42
Utility and ESP Retail Electricity Sales (megawatthours).....	19,206,917	39
Utility Retail Electricity Sales (megawatthours)	19,206,917	39
Direct Use (megawatthours).....	501,942	29
Average Retail Price (cents/kWh).....	6.73	21

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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.....	Gas	El Paso Electric Co	238
6. Maddox	Gas	Southwestern Public Service Co	193
7. Reeves	Gas	Public Service Co of NM	154
8. Afton Generating Stat.....	Gas	Public Service Co of NM	151
9. Delta Person LLC.....	Petroleum, Gas	Delta Person LP	140
10. Milagro Cogeneration	Gas	Williams Field Services Co	122

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
New Mexico					
A. Public Service Company of NM.....	7,406,506	2,305,731	3,264,754	1,612,723	223,298
B. Southwestern Public Service Co	3,443,168	876,348	1,399,557	1,029,495	137,768
C. El Paso Electric Company.....	1,355,007	471,917	422,875	90,425	369,790
D. City of Farmington.....	1,043,320	210,101	336,012	485,454	11,753
E. Texas-New Mexico Power Company.....	1,018,335	237,072	232,135	530,720	18,408
Total	14,266,336	4,101,169	5,655,333	3,748,817	761,017
Percentage of Utility Sales.....	74	78	81	71	46

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Mexico							
Coal	3,901	3,901	3,942	0.1	74.4	72.0	66.4
Petroleum	24	23	15	-4.9	.4	.4	.3
Natural Gas	572	889	1,048	7.0	10.9	16.4	17.6
Dual Fired	507	311	377	-3.2	9.7	5.7	6.4
Hydroelectric	59	60	82	3.7	1.1	1.1	1.4
Total Electric Utilities	5,062	5,183	5,463	.9	96.5	95.6	92.0
Petroleum	43	24	10	-15.0	.8	.5	.2
Natural Gas	51	106	273	20.4	1.0	1.9	4.6
Dual Fired	87	105	184	8.6	1.7	1.9	3.1
Other Renewables	2	2	6	12.5	.0	.0	.1
Total IPP's & Combined Heat and Power	183	237	473	11.1	3.5	4.4	8.0
Coal	3,901	3,901	3,942	.1	74.4	72.0	66.4
Petroleum	66	47	25	-10.3	1.3	.9	.4
Natural Gas	623	994	1,321	8.7	11.9	18.3	22.3
Dual Fired	594	416	561	-6	11.3	7.7	9.4
Hydroelectric	59	60	82	3.7	1.1	1.1	1.4
Other Renewables	2	2	6	12.5	.0	.0	.1
Total Electric Industry	5,245	5,421	5,936	1.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Mexico							
Coal	25,507,029	27,078,660	26,902,880	0.6	88.7	86.1	87.7
Petroleum	35,337	21,075	30,710	-1.5	.1	.1	.1
Natural Gas	2,528,175	3,209,597	2,728,060	.8	8.8	10.2	8.9
Hydroelectric	293,827	258,810	264,591	-1.2	1.0	.8	.9
Total Electric Utilities	28,364,368	30,568,142	29,926,241	.6	98.7	97.2	97.6
Petroleum	7,953	1,923	2,379	-12.5	.0	.0	.0
Natural Gas	360,391	886,080	713,679	7.9	1.3	2.8	2.3
Other Renewables	11,816	6,212	19,408	5.7	.0	.0	.1
Total IPP's & Combined Heat and Power	380,159	894,215	735,466	7.6	1.3	2.8	2.4
Coal	25,507,029	27,078,660	26,902,880	.6	88.7	86.1	87.7
Petroleum	43,290	22,998	33,089	-2.9	.2	.1	.1
Natural Gas	2,888,566	4,095,677	3,441,739	2.0	10.0	13.0	11.2
Hydroelectric	293,827	258,810	264,591	-1.2	1.0	.8	.9
Other Renewables	11,816	6,212	19,408	5.7	.0	.0	.1
Total Electric Industry	28,744,527	31,462,357	30,661,707	.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New Mexico				
Coal (2002 cents per million Btu)	152.5	137.3	152.9	*
Average heat value (Btu per pound).....	8,991	9,069	9,286	0.3
Average sulfur Content(percent) .....	.8	.8	.7	-1.1
Petroleum (2002 cents per million Btu)	563.8	590.6	613.9	.9
Average heat value (Btu per gallon).....	136,000	136,000	134,398	-1
Average sulfur Content(percent) .....	.0	.0	.1	NM
Gas (2002 cents per million Btu).....	244.4	266.3	303.8	2.4
Average heat value (Btu per cubic foot).....	1,016	1,017	993	-2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New Mexico				
Sulfur Dioxide				
Coal	58	83	51	-1.4
Petroleum	*	*	*	-15.4
Gas.....	0	0	0	NM
Total	58	83	51	-1.4
Nitrogen Oxide				
Coal	114	80	76	-4.4
Petroleum	*	*	0	NM
Gas.....	3	4	3	.4
Other.....	*	*	*	3.7
Total	117	85	79	-4.3
Carbon Dioxide				
Coal	27,834	29,689	29,112	.5
Petroleum	39	21	27	-4.1
Gas.....	1,871	2,586	2,172	1.7
Total	29,745	32,296	31,311	.6

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New Mexico							
Retail Sales (thousand megawatthours)							
Residential.....	3,884	4,502	5,238	3.4	26.0	25.7	27.3
Commercial.....	4,759	5,440	7,000	4.4	31.9	31.0	36.4
Industrial.....	4,816	6,187	5,316	1.1	32.3	35.3	27.7
Other.....	1,467	1,399	1,653	1.3	9.8	8.0	8.6
Total.....	14,927	17,528	19,207	2.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	397	413	445	1.3	33.0	33.7	34.5
Commercial.....	444	443	505	1.5	36.9	36.1	39.1
Industrial.....	261	281	238	-1.0	21.7	22.9	18.4
Other.....	100	89	103	.3	8.3	7.2	8.0
Total.....	1,202	1,225	1,292	.8	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.23	9.17	8.50	-2.0	NA	NA	NA
Commercial.....	9.32	8.14	7.22	-2.8	NA	NA	NA
Industrial.....	5.42	4.54	4.48	-2.1	NA	NA	NA
Other.....	6.83	6.34	6.23	-1.0	NA	NA	NA
Total.....	8.05	6.99	6.73	-2.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
New Mexico						
Number of Entities.....	3	17	0	14	0	34
Number of Retail Customers.....	505,008	215,106	0	156,450	0	876,564
Retail Sales (thousand megawatthours).....	9,780	6,529	0	2,898	0	19,207
Percentage of Retail Sales.....	50.92	33.99	.00	15.09	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	758	343	0	191	0	1,292
Percentage of Revenue.....	58.70	26.53	.00	14.77	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.75	5.25	.00	6.58	0	6.73

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
New York		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	36,041	6
Electric Utilities	11,675	20
Independent Power Producers & Combined Heat and Power	24,366	5
Net Generation (megawatthours).....	139,591,687	7
Electric Utilities	43,466,278	23
Independent Power Producers & Combined Heat and Power	96,125,409	5
Emissions (thousand short tons)		
Sulfur Dioxide.....	233	17
Nitrogen Oxide.....	89	24
Carbon Dioxide.....	56,695	15
Sulfur Dioxide/sq. mile.....	5	21
Nitrogen Oxide/sq. mile.....	2	24
Carbon Dioxide/sq. mile.....	1,201	23
Utility and ESP Retail Electricity Sales (megawatthours).....	143,563,666	5
Utility Retail Electricity Sales (megawatthours)	123,931,972	6
ESP Retail Electricity Sales (megawatthours).....	19,631,694	3
Direct Use (megawatthours).....	6,916,359	5
Average Retail Price (cents/kWh).....	11.29	4

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
New York			
1. Ravenswood.....	Petroleum, Gas	KeySpan-Ravenswood Inc	2,174
2. Robert Moses Niagara.....	Hydro	Power Authority of State of NY	2,160
3. Nine Mile Point Nucle	Nuclear	Nine Mile Point Nuclear Sta LLC	1,756
4. Oswego Harbor Power	Petroleum	NRG Oswego Harbor Power Operati	1,681
5. Northport.....	Gas, Petroleum	KeySpan Generation LLC	1,535
6. Astoria Generating St.....	Petroleum, Gas	Astoria Generating Co LP	1,293
7. Roseton Generating St.....	Gas, Petroleum	Dynegy Northeast Gen Inc	1,205
8. Bowline Point	Petroleum, Gas	Mirant New York Inc	1,139
9. Blenheim Gilboa.....	Hydro	Power Authority of State of NY	1,057
10. Indian Point 3.....	Nuclear	Entergy Nuclear Indian Point 3	984

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
New York					
A. Consolidated Edison Co-NY, Inc.....	31,754,647	12,510,162	18,594,627	468,108	181,750
B. Niagara Mohawk Power Corp.....	28,428,832	10,119,984	8,984,374	9,185,488	138,986
C. Long Island Power Authority.....	17,927,581	8,489,702	9,026,264	0	411,615
D. Power Authority of State of NY.....	14,271,883	0	120,574	4,805,037	9,346,272
E. New York State Elec & Gas Corp.....	12,466,903	5,544,411	2,918,363	2,891,026	1,113,103
Total	104,849,846	36,664,259	39,644,202	17,349,659	11,191,726
Percentage of Utility Sales.....	73	79	66	71	89

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New York							
Coal	3,879	3,880	302	-24.7	10.9	10.9	0.8
Petroleum	5,122	4,666	2,288	-8.6	14.4	13.1	6.3
Natural Gas	4,777	1,361	889	-17.0	13.4	3.8	2.5
Dual Fired	6,882	9,981	3,244	-8.0	19.3	28.1	9.0
Nuclear	4,831	4,961	498	-22.3	13.6	13.9	1.4
Hydroelectric	7,240	5,135	4,454	-5.3	20.3	14.4	12.4
Total Electric Utilities	32,731	29,985	11,675	-10.8	91.9	84.3	32.4
Coal	395	372	3,842	28.7	1.1	1.0	10.7
Petroleum	34	82	1,262	49.3	.1	.2	3.5
Natural Gas	445	2,186	2,363	20.4	1.2	6.1	6.6
Other Gases	20	23	0	NM	.1	.1	.0
Dual Fired	1,313	2,152	11,007	26.6	3.7	6.0	30.5
Nuclear	0	0	4,550	NM	.0	.0	12.6
Hydroelectric	305	359	952	13.5	.9	1.0	2.6
Other Renewables	353	417	390	1.1	1.0	1.2	1.1
Total IPP's & Combined Heat and Power	2,866	5,592	24,366	26.8	8.1	15.7	67.6
Coal	4,275	4,252	4,144	-.3	12.0	12.0	11.5
Petroleum	5,156	4,749	3,550	-4.1	14.5	13.3	9.8
Natural Gas	5,222	3,548	3,253	-5.1	14.7	10.0	9.0
Other Gases	20	23	0	NM	.1	.1	.0
Dual Fired	8,195	12,133	14,251	6.3	23.0	34.1	39.5
Nuclear	4,831	4,961	5,047	.5	13.6	13.9	14.0
Hydroelectric	7,545	5,494	5,406	-3.6	21.2	15.4	15.0
Other Renewables	353	417	390	1.1	1.0	1.2	1.1
Total Electric Industry	35,597	35,576	36,041	.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New York							
Coal	21,819,763	21,752,103	1,682,022	-24.8	17.6	15.4	1.2
Petroleum	14,438,633	8,141,829	7,434,611	-7.1	11.6	5.8	5.3
Natural Gas	16,165,604	20,705,736	10,798,275	-4.4	13.0	14.7	7.7
Nuclear	26,889,261	29,569,618	3,826,848	-19.5	21.6	21.0	2.7
Hydroelectric	26,988,004	27,911,520	19,724,522	-3.4	21.7	19.8	14.1
Other Renewables	13,237	17,793	0	NM	.0	.0	.0
Total Electric Utilities	106,314,502	108,098,599	43,466,278	-9.5	85.6	76.8	31.1
Coal	2,682,203	2,306,691	21,557,090	26.1	2.2	1.6	15.4
Petroleum	634,333	446,547	4,099,499	23.0	.5	.3	2.9
Natural Gas	10,909,663	25,575,180	27,652,917	10.9	8.8	18.2	19.8
Other Gases	90,980	107,411	0	NM	.1	.1	.0
Nuclear	0	0	35,790,643	NM	.0	.0	25.6
Hydroelectric	1,319,590	1,613,322	4,402,149	14.3	1.1	1.1	3.2
Other Renewables	2,269,761	2,683,898	2,623,112	1.6	1.8	1.9	1.9
Total IPP's & Combined Heat and Power	17,906,530	32,733,048	96,125,409	20.5	14.4	23.2	68.9
Coal	24,501,966	24,058,794	23,239,112	-6	19.7	17.1	16.6
Petroleum	15,072,966	8,588,376	11,534,110	-2.9	12.1	6.1	8.3
Natural Gas	27,075,267	46,280,916	38,451,192	4.0	21.8	32.9	27.5
Other Gases	90,980	107,411	0	NM	.1	.1	.0
Nuclear	26,889,261	29,569,618	39,617,491	4.4	21.6	21.0	28.4
Hydroelectric	28,307,594	29,524,842	24,126,671	-1.8	22.8	21.0	17.3
Other Renewables	2,282,998	2,701,691	2,623,112	1.6	1.8	1.9	1.9
Total Electric Industry	124,221,032	140,831,647	139,591,687	1.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New York				
Coal (2002 cents per million Btu)	166.8	146.3	155.0	-0.8
Average heat value (Btu per pound)	12,914	13,105	12,825	-1
Average sulfur Content(percent)	1.5	1.8	1.8	1.5
Petroleum (2002 cents per million Btu)	286.5	292.0	365.9	2.8
Average heat value (Btu per gallon)	151,012	150,326	148,476	-2
Average sulfur Content(percent) .....	.8	.6	1.0	3.2
Gas (2002 cents per million Btu)	295.2	288.8	398.7	3.4
Average heat value (Btu per cubic foot)	1,031	1,026	1,019	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
New York				
Sulfur Dioxide				
Coal	236	266	186	-2.6
Petroleum	70	39	46	-4.6
Gas.....*	*	*	*	6.0
Other.....	5	2	1	-19.7
Total	312	306	233	-3.2
Nitrogen Oxide				
Coal	83	61	50	-5.5
Petroleum	20	8	12	-5.1
Gas.....	28	34	22	-2.4
Other.....	6	5	5	-2.6
Total	137	109	89	-4.6
Carbon Dioxide				
Coal	26,039	25,821	24,305	-.8
Petroleum	13,365	7,768	10,634	-2.5
Gas.....	15,685	24,783	21,342	3.5
Other.....	321	381	413	2.8
Total	55,410	58,752	56,695	.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
New York							
Retail Sales (thousand megawatthours)							
Residential.....	39,897	40,059	46,234	1.6	30.6	30.4	32.2
Commercial.....	47,728	54,226	60,493	2.7	36.7	41.1	42.1
Industrial	30,187	25,282	24,290	-2.4	23.2	19.2	16.9
Other	12,357	12,369	12,547	.2	9.5	9.4	8.7
Total	130,170	131,936	143,564	1.1	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	5,855	5,813	6,278	.8	37.6	38.5	38.7
Commercial.....	6,198	6,759	7,540	2.2	39.9	44.8	46.5
Industrial	2,241	1,350	1,255	-6.2	14.4	8.9	7.7
Other	1,258	1,166	1,136	-1.1	8.1	7.7	7.0
Total	15,551	15,088	16,208	.5	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	14.67	14.51	13.58	-.9	NA	NA	NA
Commercial.....	12.99	12.46	12.46	-.4	NA	NA	NA
Industrial	7.42	5.34	5.16	-3.9	NA	NA	NA
Other	10.18	9.42	9.05	-1.3	NA	NA	NA
Total	11.95	11.44	11.29	-.6	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
New York						
Number of Entities	8	51	0	4	24	87
Number of Retail Customers	6,211,574	1,258,004	0	16,650	742,107	8,228,335
Retail Sales (thousand megawatthours).....	85,815	37,945	0	173	19,632	143,564
Percentage of Retail Sales.....	59.77	26.43	.00	.12	13.67	100.00
Revenue from Retail Sales (million 2002 dollars)	11,229	3,493	0	15	1,471	16,208
Percentage of Revenue.....	69.28	21.55	.00	.09	9.08	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	13.09	9.21	.00	8.57	0	11.29

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
North Carolina		
NERC Region(s).....		SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	26,674	11
Electric Utilities	23,652	7
Independent Power Producers & Combined Heat and Power	3,023	24
Net Generation (megawatthours).....	124,468,030	11
Electric Utilities	115,597,653	5
Independent Power Producers & Combined Heat and Power	8,870,377	23
Emissions (thousand short tons)		
Sulfur Dioxide	483	9
Nitrogen Oxide	164	11
Carbon Dioxide	77,462	13
Sulfur Dioxide/sq. mile.....	10	10
Nitrogen Oxide/sq. mile.....	3	15
Carbon Dioxide/sq. mile.....	1,590	16
Utility and ESP Retail Electricity Sales (megawatthours).....	122,686,468	9
Utility Retail Electricity Sales (megawatthours)	122,686,468	8
Direct Use (megawatthours).....	3,080,472	13
Average Retail Price (cents/kWh).....	6.74	20

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
North Carolina			
1. Roxboro.....	Petroleum, Coal	Carolina Power & Light Co	2,477
2. Belews Creek	Petroleum, Coal	Duke Energy Corp	2,240
3. McGuire	Nuclear	Duke Energy Corp	2,200
4. Marshall	Petroleum, Coal	Duke Energy Corp	2,090
5. Brunswick	Nuclear	Carolina Power & Light Co	1,631
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	1,140
9. Asheville	Petroleum, Gas, Coal	Carolina Power & Light Co	937
10. Harris.....	Nuclear	Carolina Power & Light Co	900

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
North Carolina					
A. Duke Energy Corporation	53,983,683	18,808,288	19,207,782	15,742,821	224,792
B. Carolina Power & Light Company	35,327,404	13,332,731	10,777,990	9,873,037	1,343,646
C. Virginia Electric & Power Co.....	3,860,522	1,391,162	737,587	1,592,430	139,343
D. Fayetteville Public Works Comm.....	2,082,850	869,451	736,988	399,774	76,637
E. EnergyUnited Elec Member Corp.....	1,900,363	1,352,171	420,229	124,718	3,245
Total	97,154,822	35,753,803	31,880,576	27,732,780	1,787,663
Percentage of Utility Sales.....	79	72	81	88	82

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
North Carolina							
Coal	12,503	12,440	12,440	-0.1	58.5	54.5	46.6
Petroleum	304	355	400	3.1	1.4	1.6	1.5
Natural Gas	68	96	2,270	47.6	.3	.4	8.5
Dual Fired	718	1,851	2,176	13.1	3.4	8.1	8.2
Nuclear	4,639	4,749	4,731	.2	21.7	20.8	17.7
Hydroelectric	1,950	1,564	1,632	-2.0	9.1	6.8	6.1
Other Renewables	0	0	2	NM	.0	.0	.0
Total Electric Utilities	20,182	21,054	23,652	1.8	94.5	92.2	88.7
Coal	747	912	828	1.2	3.5	4.0	3.1
Petroleum	4	39	47	31.7	.0	.2	.2
Natural Gas	0	14	54	NM	.0	.1	.2
Dual Fired	185	195	1,415	25.4	.9	.9	5.3
Hydroelectric	9	364	376	50.6	.0	1.6	1.4
Other Renewables	194	221	266	3.6	.9	1.0	1.0
Other	37	37	37	.0	.2	.2	.1
Total IPP's & Combined Heat and Power	1,176	1,783	3,023	11.1	5.5	7.8	11.3
Coal	13,250	13,352	13,268	.0	62.0	58.5	49.7
Petroleum	307	394	447	4.2	1.4	1.7	1.7
Natural Gas	68	110	2,324	48.0	.3	.5	8.7
Dual Fired	903	2,046	3,591	16.6	4.2	9.0	13.5
Nuclear	4,639	4,749	4,731	.2	21.7	20.8	17.7
Hydroelectric	1,959	1,927	2,008	.3	9.2	8.4	7.5
Other Renewables	194	221	268	3.7	.9	1.0	1.0
Other	37	37	37	.0	.2	.2	.1
Total Electric Industry	21,358	22,837	26,674	2.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
North Carolina							
Coal	59,383,147	70,181,392	71,223,313	2.0	62.3	60.8	57.2
Petroleum	165,175	211,974	376,170	9.6	.2	.2	.3
Natural Gas	239,530	376,599	1,935,684	26.1	.3	.3	1.6
Nuclear	23,758,927	32,453,074	39,626,849	5.8	24.9	28.1	31.8
Hydroelectric	5,206,835	4,148,053	2,435,637	-8.1	5.5	3.6	2.0
Total Electric Utilities	88,753,614	107,371,092	115,597,653	3.0	93.1	93.0	92.9
Coal	4,189,508	3,890,649	3,964,428	-6	4.4	3.4	3.2
Petroleum	242,080	284,536	215,856	-1.3	.3	.2	.2
Natural Gas	155,221	323,338	1,625,187	29.8	.2	.3	1.3
Other Gases	0	0	863	NM	.0	.0	.0
Hydroelectric	26,538	1,731,636	1,081,586	51.0	.0	1.5	.9
Other Renewables	1,712,503	1,657,389	1,818,279	.7	1.8	1.4	1.5
Other	234,982	236,051	164,178	-3.9	.2	.2	.1
Total IPP's & Combined Heat and Power	6,560,831	8,123,599	8,870,377	3.4	6.9	7.0	7.1
Coal	63,572,655	74,072,041	75,187,741	1.9	66.7	64.1	60.4
Petroleum	407,255	496,510	592,026	4.2	.4	.4	.5
Natural Gas	394,751	699,937	3,560,871	27.7	.4	.6	2.9
Other Gases	0	0	863	NM	.0	.0	.0
Nuclear	23,758,927	32,453,074	39,626,849	5.8	24.9	28.1	31.8
Hydroelectric	5,233,373	5,879,689	3,517,223	-4.3	5.5	5.1	2.8
Other Renewables	1,712,503	1,657,389	1,818,279	.7	1.8	1.4	1.5
Other	234,982	236,051	164,178	-3.9	.2	.2	.1
Total Electric Industry	95,314,445	115,494,691	124,468,030	3.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
North Carolina				
Coal (2002 cents per million Btu)	189.4	146.9	176.1	-0.8
Average heat value (Btu per pound)	12,465	12,368	12,342	-1
Average sulfur Content(percent)	1.0	.9	.8	-1.3
Petroleum (2002 cents per million Btu)	451.5	439.6	466.5	.4
Average heat value (Btu per gallon)	138,611	138,266	145,562	.5
Average sulfur Content(percent) .....	.0	.0	1.0	NM
Gas (2002 cents per million Btu)	392.0	319.3	343.9	-1.4
Average heat value (Btu per cubic foot)	1,033	1,037	1,010	-2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
North Carolina				
Sulfur Dioxide				
Coal	450	528	476	0.6
Petroleum	*	5	3	25.1
Gas.....	0	0	0	NM
Other.....	4	6	4	.4
Total	454	539	483	.7
Nitrogen Oxide				
Coal	226	297	160	-3.7
Petroleum	1	1	*	-2.8
Gas.....	1	1	2	10.8
Other.....	1	2	2	4.5
Total	228	300	164	-3.6
Carbon Dioxide				
Coal	63,236	73,032	75,349	2.0
Petroleum	447	617	590	3.1
Gas.....	274	488	1,508	20.9
Other.....	16	15	14	-1.1
Total	63,972	74,153	77,462	2.1

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
North Carolina							
Retail Sales (thousand megawatthours)							
Residential.....	37,742	40,611	49,854	3.1	37.8	37.2	40.6
Commercial.....	26,747	31,388	39,277	4.4	26.8	28.8	32.0
Industrial	33,488	35,095	31,381	-.7	33.6	32.2	25.6
Other	1,800	1,955	2,174	2.1	1.8	1.8	1.8
Total	99,778	109,050	122,686	2.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	3,438	3,353	4,085	1.9	46.6	46.2	49.4
Commercial.....	1,965	2,074	2,559	3.0	26.6	28.6	31.0
Industrial	1,829	1,700	1,474	-2.4	24.8	23.4	17.8
Other	142	136	146	.3	1.9	1.9	1.8
Total	7,373	7,264	8,263	1.3	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	9.11	8.26	8.19	-1.2	NA	NA	NA
Commercial.....	7.35	6.61	6.51	-1.3	NA	NA	NA
Industrial	5.46	4.84	4.70	-1.7	NA	NA	NA
Other	7.87	6.97	6.70	-1.8	NA	NA	NA
Total	7.39	6.66	6.74	-1.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
North Carolina						
Number of Entities.....	3	76	0	29	0	108
Number of Retail Customers.....	2,906,685	568,343	0	840,761	0	4,315,789
Retail Sales (thousand megawatthours).....	93,172	15,331	0	14,184	0	122,686
Percentage of Retail Sales.....	75.94	12.50	.00	11.56	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	5,865	1,213	0	1,185	0	8,263
Percentage of Revenue.....	70.97	14.68	.00	14.35	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.29	7.91	.00	8.36	0	6.74

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
North Dakota		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	4,699	41
Electric Utilities	4,659	35
Independent Power Producers & Combined Heat and Power	40	49
Net Generation (megawatthours)	31,306,312	39
Electric Utilities	31,147,221	32
Independent Power Producers & Combined Heat and Power	159,091	49
Emissions (thousand short tons)		
Sulfur Dioxide	144	23
Nitrogen Oxide.....	77	29
Carbon Dioxide.....	36,416	29
Sulfur Dioxide/sq. mile.....	2	30
Nitrogen Oxide/sq. mile.....	1	32
Carbon Dioxide/sq. mile.....	528	34
Utility and ESP Retail Electricity Sales (megawatthours).....	10,219,353	45
Utility Retail Electricity Sales (megawatthours)	10,219,353	44
Direct Use (megawatthours).....	191,751	37
Average Retail Price (cents/kWh).....	5.45	46

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
North Dakota			
1. Coal Creek	Petroleum, Coal	Great River Energy	1,091
2. Antelope Valley	Petroleum, Coal	Basin Electric Power Coop	904
3. Milton R Young.....	Petroleum, Coal	Minnkota Power Coop Inc	705
4. Leland Olds.....	Petroleum, Coal	Basin Electric Power Coop	669
5. Garrison.....	Hydro	USCE-Missouri River District	497
6. Coyote	Petroleum, Coal	Otter Tail Power Co	427
7. Stanton	Petroleum, Coal	Great River Energy	187
8. R M Heskett.....	Gas, Coal	MDU Resources Group Inc	102
9. Jamestown.....	Petroleum	Otter Tail Power Co	42
10. American Crystal Suga.....	Coal	American Crystal Sugar Co	13

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
North Dakota					
A. Northern States Power Company.....	2,047,352	737,573	965,437	319,618	24,724
B. Otter Tail Power Company	1,478,095	523,700	871,225	53,519	29,651
C. MDU Resources Group, Inc.....	1,333,091	512,592	630,043	130,710	59,746
D. Basin Electric Power Coop.....	917,718	0	0	917,718	0
E. Cass County Electric Coop, Inc	683,399	389,301	224,853	60,469	8,776
Total	6,459,655	2,163,166	2,691,558	1,482,034	122,897
Percentage of Utility Sales.....	63	59	79	56	24

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
North Dakota							
Coal	3,856	4,062	4,084	0.6	85.6	85.2	86.9
Petroleum	66	117	69	.5	1.5	2.5	1.5
Natural Gas	10	9	10	-.5	.2	.2	.2
Hydroelectric	545	545	497	-1.0	12.1	11.4	10.6
Total Electric Utilities	4,478	4,733	4,659	.4	99.4	99.3	99.2
Coal	18	18	21	1.9	.4	.4	.5
Natural Gas	3	0	0	NM	.1	.0	.0
Other Gases	7	7	8	1.7	.2	.2	.2
Other Renewables	0	9	10	NM	.0	.2	.2
Total IPP's & Combined Heat and Power	29	35	40	3.8	.6	.7	.8
Coal	3,874	4,080	4,105	.6	86.0	85.6	87.3
Petroleum	66	117	69	.5	1.5	2.5	1.5
Natural Gas	13	9	10	-3.6	.3	.2	.2
Other Gases	7	7	8	1.7	.2	.2	.2
Hydroelectric	545	545	497	-1.0	12.1	11.4	10.6
Other Renewables	0	9	10	NM	.0	.2	.2
Total Electric Industry	4,506	4,767	4,699	.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
North Dakota							
Coal	27,048,924	26,314,471	29,518,865	1.0	94.4	88.1	94.3
Petroleum	35,795	85,698	35,728	.0	.1	.3	.1
Natural Gas	-5	18	12	NM	.0	.0	.0
Hydroelectric	1,415,110	3,319,577	1,592,616	1.3	4.9	11.1	5.1
Total Electric Utilities	28,499,824	29,719,764	31,147,221	1.0	99.4	99.6	99.5
Coal	91,789	75,481	92,659	.1	.3	.3	.3
Petroleum	25,323	8,529	2,848	-21.6	.1	.0	.0
Natural Gas	7,082	373	8,030	1.4	.0	.0	.0
Other Gases	39,393	44,317	55,144	3.8	.1	.1	.2
Other Renewables	0	4,139	410	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	163,587	132,838	159,091	-.3	.6	.4	.5
Coal	27,140,713	26,389,952	29,611,524	1.0	94.7	88.4	94.6
Petroleum	61,118	94,227	38,576	-5.0	.2	.3	.1
Natural Gas	7,077	391	8,042	1.4	.0	.0	.0
Other Gases	39,393	44,317	55,144	3.8	.1	.1	.2
Hydroelectric	1,415,110	3,319,577	1,592,616	1.3	4.9	11.1	5.1
Other Renewables	0	4,139	410	NM	.0	.0	.0
Total Electric Industry	28,663,411	29,852,602	31,306,312	1.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
North Dakota				
Coal (2002 cents per million Btu)	79.6	80.0	74.3	-0.8
Average heat value (Btu per pound).....	6,570	6,559	6,523	-.1
Average sulfur Content(percent) .....	.7	.8	.7	-.2
Petroleum (2002 cents per million Btu).....	492.3	471.9	572.8	1.7
Average heat value (Btu per gallon).....	138,018	139,091	141,343	.3
Average sulfur Content(percent) .....	.0	.0	.4	NM
Gas (2002 cents per million Btu).....	473.7	330.9	247.9	-6.9
Average heat value (Btu per cubic foot).....	1,080	1,066	950	-1.4

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
North Dakota				
Sulfur Dioxide				
Coal	144	178	144	0.0
Petroleum	*	*	*	-23.1
Total	144	178	144	*
Nitrogen Oxide				
Coal	109	94	77	-3.8
Petroleum	*	*	*	-23.6
Gas.....	*	*	*	3.7
Other.....	0	0	0	NM
Total	110	94	77	-3.8
Carbon Dioxide				
Coal	33,383	32,482	36,322	.9
Petroleum	57	81	35	-5.3
Gas.....	38	41	59	5.1
Total	33,478	32,605	36,416	.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
North Dakota							
Retail Sales (thousand megawatthours)							
Residential.....	3,209	3,437	3,664	1.5	43.2	41.5	35.8
Commercial.....	1,831	2,300	3,404	7.1	24.6	27.8	33.3
Industrial.....	1,905	2,076	2,636	3.7	25.6	25.1	25.8
Other.....	487	469	516	.6	6.6	5.7	5.0
Total.....	7,432	8,282	10,219	3.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	226	222	234	.4	46.8	46.1	42.0
Commercial.....	132	145	199	4.7	27.4	30.2	35.8
Industrial.....	103	93	105	.2	21.3	19.4	18.8
Other.....	22	21	19	-1.4	4.5	4.3	3.4
Total.....	482	481	557	1.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.03	6.45	6.39	-1.1	NA	NA	NA
Commercial.....	7.22	6.32	5.85	-2.3	NA	NA	NA
Industrial.....	5.40	4.50	3.98	-3.3	NA	NA	NA
Other.....	4.44	4.39	3.68	-2.0	NA	NA	NA
Total.....	6.49	5.81	5.45	-1.9	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
North Dakota						
Number of Entities.....	0	21	0	18	0	39
Number of Retail Customers.....	0	229,979	0	120,067	0	350,046
Retail Sales (thousand megawatthours).....	0	5,607	0	4,612	0	10,219
Percentage of Retail Sales.....	.00	54.87	.00	45.13	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	0	313	0	244	0	557
Percentage of Revenue.....	.00	56.19	.00	43.81	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	.00	5.58	.00	5.29	0	5.45

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Ohio		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	31,477	8
Electric Utilities	27,885	3
Independent Power Producers & Combined Heat and Power	3,592	21
Net Generation (megawatthours).....	147,068,850	6
Electric Utilities	139,904,106	3
Independent Power Producers & Combined Heat and Power	7,164,744	27
Emissions (thousand short tons)		
Sulfur Dioxide.....	1,172	1
Nitrogen Oxide.....	385	1
Carbon Dioxide.....	135,181	2
Sulfur Dioxide/sq. mile.....	29	1
Nitrogen Oxide/sq. mile.....	9	5
Carbon Dioxide/sq. mile.....	3,301	5
Utility and ESP Retail Electricity Sales (megawatthours).....	155,999,230	4
Utility Retail Electricity Sales (megawatthours)	135,562,777	4
ESP Retail Electricity Sales (megawatthours).....	20,436,453	2
Direct Use (megawatthours).....	643,168	27
Average Retail Price (cents/kWh).....	6.66	22

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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. Eastlake	Petroleum, Coal	Cleveland Electric Illuminating	1,257

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Ohio					
A. Ohio Power Company	27,445,018	7,219,163	5,487,285	14,653,312	85,258
B. Ohio Edison Company.....	18,685,328	7,071,013	4,830,925	6,635,794	147,596
C. Cincinnati Gas & Electric Co	18,463,484	7,204,119	4,714,911	5,116,622	1,427,832
D. Columbus Southern Power Co.....	17,488,494	7,009,459	7,150,771	2,852,329	475,935
E. Dayton Power & Light Company	13,822,904	5,301,821	3,526,242	3,593,676	1,401,165
Total	95,905,228	33,805,575	25,710,134	32,851,733	3,537,786
Percentage of Utility Sales.....	61	67	63	54	90

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Ohio							
Coal	23,043	22,415	21,599	-0.7	83.7	83.2	68.6
Petroleum	870	752	947	1.0	3.2	2.8	3.0
Natural Gas	502	512	1,834	15.5	1.8	1.9	5.8
Dual Fired	516	695	1,140	9.2	1.9	2.6	3.6
Nuclear	2,042	2,042	2,111	.4	7.4	7.6	6.7
Hydroelectric	124	123	164	3.2	.4	.5	.5
Other Renewables	90	90	90	.0	.3	.3	.3
Total Electric Utilities	27,186	26,630	27,885	.3	98.8	98.8	88.6
Coal	193	198	1,099	21.3	.7	.7	3.5
Petroleum	8	6	49	22.9	.0	.0	.2
Natural Gas	2	1	810	101.0	.0	.0	2.6
Other Gases	63	63	81	2.8	.2	.2	.3
Dual Fired	35	17	1,535	52.1	.1	.1	4.9
Hydroelectric	3	0	0	NM	.0	.0	.0
Other Renewables	29	37	17	-5.5	.1	.1	.1
Total IPP's & Combined Heat and Power	333	322	3,592	30.3	1.2	1.2	11.4
Coal	23,235	22,613	22,698	-.3	84.4	83.9	72.1
Petroleum	877	758	996	1.4	3.2	2.8	3.2
Natural Gas	503	514	2,644	20.2	1.8	1.9	8.4
Other Gases	63	63	81	2.8	.2	.2	.3
Dual Fired	551	712	2,675	19.2	2.0	2.6	8.5
Nuclear	2,042	2,042	2,111	.4	7.4	7.6	6.7
Hydroelectric	127	123	164	2.9	.5	.5	.5
Other Renewables	119	127	107	-1.1	.4	.5	.3
Total Electric Industry	27,518	26,951	31,477	1.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Ohio							
Coal	123,024,655	124,909,642	127,373,404	0.4	91.0	87.5	86.6
Petroleum	276,037	272,780	380,710	3.6	.2	.2	.3
Natural Gas	176,872	228,254	796,761	18.2	.1	.2	.5
Nuclear	10,010,661	15,330,830	10,864,902	.9	7.4	10.7	7.4
Hydroelectric	183,069	507,368	488,329	11.5	.1	.4	.3
Other Renewables	64,134	0	0	NM	.0	.0	.0
Total Electric Utilities	133,735,428	141,248,874	139,904,106	.5	98.9	98.9	95.1
Coal	771,257	525,777	5,579,662	24.6	.6	.4	3.8
Petroleum	69,965	21,128	8,409	-21.0	.1	.0	.0
Natural Gas	194,579	240,680	969,893	19.5	.1	.2	.7
Other Gases	128,520	189,767	206,565	5.4	.1	.1	.1
Hydroelectric	6,544	0	0	NM	.0	.0	.0
Other Renewables	330,998	585,021	151,310	-8.3	.2	.4	.1
Other	0	0	248,904	NM	.0	.0	.2
Total IPP's & Combined Heat and Power	1,501,863	1,562,373	7,164,744	19.0	1.1	1.1	4.9
Coal	123,795,912	125,435,419	132,953,066	.8	91.5	87.8	90.4
Petroleum	346,002	293,908	389,119	1.3	.3	.2	.3
Natural Gas	371,451	468,934	1,766,654	18.9	.3	.3	1.2
Other Gases	128,520	189,767	206,565	5.4	.1	.1	.1
Nuclear	10,010,661	15,330,830	10,864,902	.9	7.4	10.7	7.4
Hydroelectric	189,613	507,368	488,329	11.1	.1	.4	.3
Other Renewables	395,132	585,021	151,310	-10.1	.3	.4	.1
Other	0	0	248,904	NM	.0	.0	.2
Total Electric Industry	135,237,291	142,811,247	147,068,850	.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Ohio				
Coal (2002 cents per million Btu)	157.5	135.7	122.6	-2.7
Average heat value (Btu per pound)	12,049	11,891	11,644	-4
Average sulfur Content(percent)	2.4	2.0	2.0	-2.1
Petroleum (2002 cents per million Btu)	208.7	437.5	532.4	11.0
Average heat value (Btu per gallon)	81,276	135,936	138,681	6.1
Average sulfur Content(percent)	3.7	3.5	.1	-31.0
Gas (2002 cents per million Btu)	318.4	373.0	374.7	1.8
Average heat value (Btu per cubic foot)	1,030	1,024	1,026	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Ohio				
Sulfur Dioxide				
Coal	2,140	1,476	1,160	-6.6
Petroleum	1	*	12	36.0
Gas.....	0	0	*	NM
Other.....	1	1	1	-3.8
Total	2,141	1,478	1,172	-6.5
Nitrogen Oxide				
Coal	531	547	377	-3.7
Petroleum	*	*	1	17.1
Gas.....	4	4	6	4.0
Other.....	1	*	1	-10.2
Total	537	551	385	-3.6
Carbon Dioxide				
Coal	126,083	127,966	133,406	.6
Petroleum	344	291	293	-1.8
Gas.....	356	492	1,481	17.2
Other.....	9	0	0	NM
Total	126,792	128,748	135,181	.7

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Ohio							
Retail Sales (thousand megawatthours)							
Residential.....	41,950	43,635	50,612	2.1	28.2	27.5	32.4
Commercial.....	33,299	36,373	40,593	2.2	22.4	22.9	26.0
Industrial	68,831	73,888	60,855	-1.4	46.3	46.6	39.0
Other	4,491	4,612	3,940	-1.4	3.0	2.9	2.5
Total	148,571	158,508	155,999	.5	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	3,907	3,869	4,193	.8	38.0	38.0	40.4
Commercial.....	2,816	2,866	3,119	1.1	27.4	28.1	30.0
Industrial	3,258	3,161	2,845	-1.5	31.6	31.0	27.4
Other	312	290	225	-3.6	3.0	2.8	2.2
Total	10,293	10,185	10,383	.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	9.31	8.87	8.29	-1.3	NA	NA	NA
Commercial.....	8.46	7.88	7.68	-1.1	NA	NA	NA
Industrial	4.73	4.28	4.68	-.1	NA	NA	NA
Other	6.94	6.29	5.70	-2.2	NA	NA	NA
Total	6.93	6.43	6.66	-.4	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Ohio						
Number of Entities	9	87	0	23	12	131
Number of Retail Customers	3,888,071	377,409	0	341,086	779,046	5,385,612
Retail Sales (thousand megawatthours).....	119,112	9,690	0	6,761	20,436	155,999
Percentage of Retail Sales.....	76.35	6.21	.00	4.33	13.10	100.00
Revenue from Retail Sales (million 2002 dollars)	8,533	665	0	457	728	10,383
Percentage of Revenue.....	82.18	6.41	.00	4.40	7.01	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.16	6.87	.00	6.76	0	6.66

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Oklahoma		
NERC Region(s).....		SPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	16,232	22
Electric Utilities	13,387	18
Independent Power Producers & Combined Heat and Power	2,845	27
Net Generation (megawatthours).....	59,183,419	23
Electric Utilities	51,218,320	20
Independent Power Producers & Combined Heat and Power	7,965,099	24
Emissions (thousand short tons)		
Sulfur Dioxide	166	21
Nitrogen Oxide	98	18
Carbon Dioxide	52,549	18
Sulfur Dioxide/sq. mile.....	2	27
Nitrogen Oxide/sq. mile.....	1	27
Carbon Dioxide/sq. mile.....	765	28
Utility and ESP Retail Electricity Sales (megawatthours).....	49,485,466	26
Utility Retail Electricity Sales (megawatthours)	49,485,466	25
Direct Use (megawatthours).....	1,175,727	24
Average Retail Price (cents/kWh).....	5.59	43

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Oklahoma			
1. Muskogee	Gas, Coal	Oklahoma Gas & Electric Co	1,666
2. Northeastern	Gas, Coal	Public Service Co of Oklahoma	1,549
3. Seminole.....	Gas	Oklahoma Gas & Electric Co	1,536
4. Sooner	Petroleum, Coal	Oklahoma Gas & Electric Co	1,019
5. GRDA	Petroleum, Gas, Coal	Grand River Dam Authority	1,010
6. Riverside	Gas	Public Service Co of Oklahoma	920
7. Horseshoe Lake	Petroleum, Gas	Oklahoma Gas & Electric Co	860
8. Green Country Energy.....	Gas	Green Country OP Services LLC	779
9. Oneta Energy Center.....	Gas	Calpine Central, L.P.	560
10. Mustang.....	Gas	Oklahoma Gas & Electric Co	533

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Oklahoma					
A. Oklahoma Gas & Electric Co	20,544,045	7,358,370	5,072,247	5,567,976	2,545,452
B. Public Service Co of Oklahoma.....	16,466,566	5,755,212	5,034,503	4,840,879	835,972
C. Oklahoma Electric Coop, Inc	770,609	529,787	200,387	39,865	570
D. Edmond Electric Department	679,268	378,387	75,311	141,348	84,222
E. Grand River Dam Authority.....	535,801	0	40,538	495,263	0
Total	38,996,289	14,021,756	10,422,986	11,085,331	3,466,216
Percentage of Utility Sales.....	79	70	80	86	97

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Oklahoma							
Coal	4,874	4,848	4,896	0.0	35.7	35.4	30.2
Petroleum	30	28	34	1.3	.2	.2	.2
Natural Gas	849	961	5,490	23.0	6.2	7.0	33.8
Other Gases	52	52	61	1.8	.4	.4	.4
Dual Fired	6,045	6,006	1,850	-12.3	44.3	43.8	11.4
Hydroelectric	1,009	1,035	1,056	.5	7.4	7.6	6.5
Total Electric Utilities	12,859	12,931	13,387	.4	94.2	94.4	82.5
Coal	434	434	391	-1.2	3.2	3.2	2.4
Petroleum	0	0	2	NM	.0	.0	.0
Natural Gas	245	235	2,350	28.6	1.8	1.7	14.5
Other Gases	17	17	17	-.1	.1	.1	.1
Dual Fired	13	9	10	-2.7	.1	.1	.1
Other Renewables	76	76	76	.0	.6	.6	.5
Total IPP's & Combined Heat and Power	785	772	2,845	15.4	5.8	5.6	17.5
Coal	5,308	5,282	5,287	.0	38.9	38.5	32.6
Petroleum	30	28	36	1.9	.2	.2	.2
Natural Gas	1,094	1,196	7,840	24.5	8.0	8.7	48.3
Other Gases	69	69	78	1.3	.5	.5	.5
Dual Fired	6,057	6,016	1,860	-12.3	44.4	43.9	11.5
Hydroelectric	1,009	1,035	1,056	.5	7.4	7.6	6.5
Other Renewables	76	76	76	.0	.6	.6	.5
Total Electric Industry	13,644	13,702	16,232	1.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Oklahoma							
Coal	28,990,113	33,036,688	33,444,114	1.6	54.5	62.5	56.5
Petroleum	14,027	12,568	10,311	-3.4	.0	.0	.0
Natural Gas	15,510,168	12,506,748	15,953,919	.3	29.2	23.7	27.0
Hydroelectric	4,296,412	2,824,098	1,809,976	-9.2	8.1	5.3	3.1
Total Electric Utilities	48,810,720	48,380,102	51,218,320	.5	91.8	91.5	86.5
Coal	2,702,062	2,996,140	2,520,664	-.8	5.1	5.7	4.3
Petroleum	42,292	14,224	39,560	-.7	.1	.0	.1
Natural Gas	1,252,398	1,175,582	5,095,120	16.9	2.4	2.2	8.6
Other Gases	89,656	66,790	70,710	-2.6	.2	.1	.1
Other Renewables	262,544	231,139	239,045	-1.0	.5	.4	.4
Total IPP's & Combined Heat and Power	4,348,952	4,483,875	7,965,099	7.0	8.2	8.5	13.5
Coal	31,692,175	36,032,828	35,964,778	1.4	59.6	68.2	60.8
Petroleum	56,319	26,792	49,871	-1.3	.1	.1	.1
Natural Gas	16,762,566	13,682,330	21,049,039	2.6	31.5	25.9	35.6
Other Gases	89,656	66,790	70,710	-2.6	.2	.1	.1
Hydroelectric	4,296,412	2,824,098	1,809,976	-9.2	8.1	5.3	3.1
Other Renewables	262,544	231,139	239,045	-1.0	.5	.4	.4
Total Electric Industry	53,159,672	52,863,977	59,183,419	1.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Oklahoma				
Coal (2002 cents per million Btu)	137.8	94.4	95.9	-3.9
Average heat value (Btu per pound)	8,621	8,641	8,821	.3
Average sulfur Content(percent) .....	.4	.3	.4	.5
Petroleum (2002 cents per million Btu)	389.9	420.6	483.8	2.4
Average heat value (Btu per gallon)	138,837	140,096	147,024	.6
Average sulfur Content(percent) .....	.0	.0	*	NM
Gas (2002 cents per million Btu).....	346.4	295.8	344.1	-1
Average heat value (Btu per cubic foot).....	1,039	1,032	1,025	-1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Oklahoma				
Sulfur Dioxide				
Coal	116	120	165	4.0
Petroleum	*	*	*	21.1
Gas.....	0	0	*	NM
Other.....	*	*	1	3.4
Total	117	121	166	4.0
Nitrogen Oxide				
Coal	130	84	76	-5.7
Petroleum	*	*	*	.4
Gas.....	20	18	22	1.4
Other.....	*	*	*	2.8
Total	149	102	98	-4.5
Carbon Dioxide				
Coal	35,143	39,897	40,424	1.6
Petroleum	46	26	44	-4
Gas.....	9,916	8,460	12,080	2.2
Other.....	0	*	0	NM
Total	45,105	48,383	52,549	1.7

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Oklahoma							
Retail Sales (thousand megawatthours)							
Residential.....	15,901	17,376	19,927	2.5	39.2	39.1	40.3
Commercial.....	10,824	11,754	13,097	2.1	26.7	26.4	26.5
Industrial.....	11,699	12,802	12,898	1.1	28.9	28.8	26.1
Other.....	2,107	2,521	3,564	6.0	5.2	5.7	7.2
Total.....	40,531	44,453	49,485	2.2	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,265	1,184	1,341	.6	47.0	47.8	48.5
Commercial.....	748	692	753	.1	27.8	27.9	27.2
Industrial.....	539	478	491	-1.0	20.0	19.3	17.8
Other.....	138	123	180	3.0	5.1	5.0	6.5
Total.....	2,691	2,476	2,765	.3	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.96	6.81	6.73	-1.8	NA	NA	NA
Commercial.....	6.91	5.88	5.75	-2.0	NA	NA	NA
Industrial.....	4.61	3.73	3.81	-2.1	NA	NA	NA
Other.....	6.54	4.89	5.06	-2.8	NA	NA	NA
Total.....	6.64	5.57	5.59	-1.9	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Oklahoma						
Number of Entities.....	1	72	0	24	0	97
Number of Retail Customers.....	503,683	887,728	0	390,986	0	1,782,397
Retail Sales (thousand megawatthours).....	16,467	25,973	0	7,046	0	49,485
Percentage of Retail Sales.....	33.28	52.49	.00	14.24	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	736	1,530	0	499	0	2,765
Percentage of Revenue.....	26.61	55.36	.00	18.03	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.47	5.89	.00	7.08	0	5.59

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Oregon		
NERC Region(s).....		WSCC
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	12,485	26
Electric Utilities	10,348	21
Independent Power Producers & Combined Heat and Power	2,137	29
Net Generation (megawatthours).....	47,099,368	29
Electric Utilities	39,731,986	28
Independent Power Producers & Combined Heat and Power	7,367,382	26
Emissions (thousand short tons)		
Sulfur Dioxide	14	44
Nitrogen Oxide	11	44
Carbon Dioxide	7,555	42
Sulfur Dioxide/sq. mile.....	0	48
Nitrogen Oxide/sq. mile.....	0	48
Carbon Dioxide/sq. mile.....	79	47
Utility and ESP Retail Electricity Sales (megawatthours).....	45,255,173	29
Utility Retail Electricity Sales (megawatthours)	45,255,173	28
Direct Use (megawatthours).....	479,926	30
Average Retail Price (cents/kWh).....	6.32	24

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Oregon			
1. John Day	Hydro	USCE-North Pacific Division	2,484
2. The Dalles	Hydro	USCE-North Pacific Division	1,961
3. Bonneville	Hydro	USCE-North Pacific Division	1,212
4. McNary	Hydro	USCE-North Pacific Division	1,127
5. Hermiston Power Proje	Hydro	Hermiston Power Partnership	615
6. Boardman	Petroleum, Coal	Portland General Electric Co	557
7. Beaver	Petroleum, Gas	Portland General Electric Co	517
8. Klamath Cogeneration	Gas	Pacific Klamath Energy Inc	470
9. Hermiston Generating.....	Gas	Hermiston Generating Co LP	464
10. Hells Canyon.....	Hydro	Idaho Power Co	361

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Oregon					
A. Portland General Electric Co	18,771,884	7,058,334	7,001,390	4,612,264	99,896
B. PacifiCorp.....	12,981,130	5,013,064	4,497,997	3,419,264	50,805
C. City of Eugene	2,542,729	959,805	892,865	675,935	14,124
D. Central Lincoln People's Ut Dt	1,258,073	406,253	200,614	647,465	3,741
E. Umatilla Electric Coop	808,281	147,849	444,702	215,364	366
Total	36,362,097	13,585,305	13,037,568	9,570,292	168,932
Percentage of Utility Sales.....	80	77	87	78	34

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Oregon							
Coal	508	508	557	1.0	4.9	4.5	4.5
Petroleum	6	0	0	NM	.1	.0	.0
Natural Gas	148	354	24	-18.3	1.4	3.1	.2
Dual Fired	448	598	729	5.6	4.3	5.2	5.8
Hydroelectric	9,008	9,037	9,033	.0	86.5	79.2	72.4
Other Renewables	14	40	6	-10.0	.1	.3	.0
Total Electric Utilities	10,133	10,537	10,348	.2	97.3	92.4	82.9
Coal	13	13	10	-3.2	.1	.1	.1
Natural Gas	1	536	1,715	120.5	.0	4.7	13.7
Dual Fired	0	49	4	NM	.0	.4	.0
Hydroelectric	109	96	55	-7.3	1.0	.8	.4
Other Renewables	159	179	352	9.2	1.5	1.6	2.8
Total IPP's & Combined Heat and Power	283	872	2,137	25.2	2.7	7.6	17.1
Coal	521	521	567	.9	5.0	4.6	4.5
Petroleum	6	0	0	NM	.1	.0	.0
Natural Gas	150	890	1,739	31.3	1.4	7.8	13.9
Dual Fired	448	647	733	5.6	4.3	5.7	5.9
Hydroelectric	9,117	9,133	9,089	.0	87.5	80.0	72.8
Other Renewables	173	219	357	8.4	1.7	1.9	2.9
Total Electric Industry	10,415	11,409	12,485	2.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Oregon							
Coal	3,502,742	1,500,879	3,768,531	0.8	8.4	2.9	8.0
Petroleum	32,365	10,942	5,893	-17.2	.1	.0	.0
Natural Gas	1,687,456	1,273,183	1,799,217	.7	4.0	2.4	3.8
Nuclear	-21,276	0	0	NM	-1	.0	.0
Hydroelectric	35,531,031	46,283,275	34,158,327	-4	84.8	88.3	72.5
Other Renewables	10,767	0	18	-50.9	.0	.0	.0
Total Electric Utilities	40,743,085	49,068,279	39,731,986	-3	97.2	93.6	84.4
Coal	17,650	18,788	11,153	-5.0	.0	.0	.0
Petroleum	1,303	2,435	811	-5.1	.0	.0	.0
Natural Gas	90,611	2,324,287	6,013,677	59.4	.2	4.4	12.8
Hydroelectric	333,049	420,425	254,840	-2.9	.8	.8	.5
Other Renewables	723,887	578,640	1,086,902	4.6	1.7	1.1	2.3
Total IPP's & Combined Heat and Power	1,166,500	3,344,575	7,367,382	22.7	2.8	6.4	15.6
Coal	3,520,392	1,519,667	3,779,684	.8	8.4	2.9	8.0
Petroleum	33,668	13,377	6,704	-16.4	.1	.0	.0
Natural Gas	1,778,067	3,597,470	7,812,894	17.9	4.2	6.9	16.6
Nuclear	-21,276	0	0	NM	-1	.0	.0
Hydroelectric	35,864,080	46,703,700	34,413,167	-5	85.6	89.1	73.1
Other Renewables	734,654	578,640	1,086,920	4.4	1.8	1.1	2.3
Total Electric Industry	41,909,585	52,412,854	47,099,369	1.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Oregon				
Coal (2002 cents per million Btu)	125.1	117.1	132.9	0.7
Average heat value (Btu per pound)	8,801	8,757	8,563	-3
Average sulfur Content(percent) .....	.4	.3	.3	-2.2
Petroleum (2002 cents per million Btu)	426.8	503.8	572.3	3.3
Average heat value (Btu per gallon)	140,000	140,000	141,631	.1
Average sulfur Content(percent) .....	.0	.0	*	NM
Gas (2002 cents per million Btu).....	251.0	151.7	328.4	3.0
Average heat value (Btu per cubic foot).....	1,011	1,011	1,019	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Oregon				
Sulfur Dioxide				
Coal	13	7	12	-0.7
Petroleum	*	*	*	-9.2
Gas.....	0	*	*	NM
Other.....	*	1	1	19.7
Total	14	7	14	.1
Nitrogen Oxide				
Coal	15	3	8	-6.4
Petroleum	*	*	0	NM
Gas.....	2	1	2	-4.0
Other.....	1	1	1	.8
Total	18	5	11	-5.7
Carbon Dioxide				
Coal	3,728	1,561	3,998	.8
Petroleum	27	15	7	-13.4
Gas.....	1,034	1,698	3,530	14.6
Other.....	22	22	21	-6
Total	4,811	3,296	7,555	5.1

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Oregon							
Retail Sales (thousand megawatthours)							
Residential.....	16,696	17,185	17,554	0.6	37.4	36.1	38.8
Commercial.....	12,205	14,047	14,902	2.2	27.4	29.5	32.9
Industrial.....	15,012	15,931	12,296	-2.2	33.7	33.5	27.2
Other.....	664	440	503	-3.0	1.5	.9	1.1
Total.....	44,578	47,603	45,255	.2	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	934	983	1,249	3.3	42.4	43.5	43.7
Commercial.....	670	717	982	4.3	30.5	31.8	34.3
Industrial.....	556	528	581	.5	25.3	23.4	20.3
Other.....	39	29	48	2.1	1.8	1.3	1.7
Total.....	2,199	2,257	2,859	3.0	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	5.59	5.72	7.12	2.7	NA	NA	NA
Commercial.....	5.49	5.11	6.59	2.0	NA	NA	NA
Industrial.....	3.71	3.32	4.72	2.7	NA	NA	NA
Other.....	5.94	6.62	9.44	5.3	NA	NA	NA
Total.....	4.93	4.74	6.32	2.8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Oregon						
Number of Entities.....	1	24	0	16	0	41
Number of Retail Customers.....	741,949	795,521	0	177,134	0	1,714,604
Retail Sales (thousand megawatthours).....	18,772	22,237	0	4,247	0	45,255
Percentage of Retail Sales.....	41.48	49.14	.00	9.38	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,384	1,194	0	281	0	2,859
Percentage of Revenue.....	48.41	41.76	.00	9.83	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.37	5.37	.00	6.62	0	6.32

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Pennsylvania		
NERC Region(s).....		ECAR/MACC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	39,783	5
Electric Utilities	4,887	34
Independent Power Producers & Combined Heat and Power	34,896	3
Net Generation (megawatthours).....	204,322,878	2
Electric Utilities	30,537,243	33
Independent Power Producers & Combined Heat and Power	173,785,635	2
Emissions (thousand short tons)		
Sulfur Dioxide	892	2
Nitrogen Oxide	224	6
Carbon Dioxide	125,225	5
Sulfur Dioxide/sq. mile.....	19	5
Nitrogen Oxide/sq. mile.....	5	10
Carbon Dioxide/sq. mile.....	2,719	10
Utility and ESP Retail Electricity Sales (megawatthours).....	140,786,670	6
Utility Retail Electricity Sales (megawatthours)	129,654,562	5
ESP Retail Electricity Sales (megawatthours).....	11,132,108	5
Direct Use (megawatthours).....	-454,086	49
Average Retail Price (cents/kWh).....	8.01	13

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Pennsylvania			
1. Bruce Mansfield.....	Petroleum, Coal	Pennsylvania Power Co	2,360
2. Limerick	Nuclear	Exelon Generation Co LLC	2,268
3. PPL Susquehanna	Nuclear	PPL Susquehanna LLC	2,216
4. Peach Bottom.....	Nuclear	Exelon Generation Co LLC	2,186
5. PPL Martins Creek	Gas, Petroleum, Coal	PPL Martins Creek LLC	2,027
6. Homer City Station.....	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	1,641
10. Hatfields Ferry Power.....	Gas, Petroleum, Coal	Allegheny Energy Supply Co LLC	1,590

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Pennsylvania					
A. PECO Energy Company.....	33,687,140	10,364,563	7,604,030	14,765,926	952,621
B. Pennsylvania Power & Light Co.....	33,631,765	12,592,661	11,665,339	9,200,387	173,378
C. West Penn Power Company	19,007,704	6,459,672	4,520,735	7,975,017	52,280
D. Pennsylvania Electric Company.....	12,391,335	4,154,844	4,686,868	3,508,037	41,586
E. Metropolitan Edison Company	10,993,418	4,718,826	3,869,957	2,369,628	35,007
Total	109,711,362	38,290,566	32,346,929	37,818,995	1,254,872
Percentage of Utility Sales.....	78	78	72	83	88

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Pennsylvania							
Coal	17,480	17,386	2,360	-19.9	48.8	47.4	5.9
Petroleum	4,115	2,225	0	NM	11.5	6.1	.0
Natural Gas	242	2,078	0	NM	.7	5.7	.0
Dual Fired	965	1,188	7	-41.9	2.7	3.2	.0
Nuclear	8,709	9,006	1,641	-16.9	24.3	24.6	4.1
Hydroelectric	1,912	1,942	879	-8.3	5.3	5.3	2.2
Total Electric Utilities	33,423	33,825	4,887	-19.2	93.4	92.3	12.3
Coal	1,294	1,568	16,024	32.3	3.6	4.3	40.3
Petroleum	15	15	2,283	74.9	.0	.0	5.7
Natural Gas	234	292	2,482	30.0	.7	.8	6.2
Other Gases	251	189	105	-9.3	.7	.5	.3
Dual Fired	264	389	4,822	38.1	.7	1.1	12.1
Nuclear	0	0	7,486	NM	.0	.0	18.8
Hydroelectric	85	84	1,217	34.4	.2	.2	3.1
Other Renewables	232	286	477	8.3	.6	.8	1.2
Other	2	2	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	2,378	2,825	34,896	34.8	6.6	7.7	87.7
Coal	18,774	18,954	18,384	-2	52.4	51.7	46.2
Petroleum	4,130	2,240	2,283	-6.4	11.5	6.1	5.7
Natural Gas	476	2,370	2,482	20.1	1.3	6.5	6.2
Other Gases	251	189	105	-9.3	.7	.5	.3
Dual Fired	1,229	1,577	4,829	16.4	3.4	4.3	12.1
Nuclear	8,709	9,006	9,127	.5	24.3	24.6	22.9
Hydroelectric	1,997	2,026	2,096	.5	5.6	5.5	5.3
Other Renewables	232	286	477	8.3	.6	.8	1.2
Other	2	2	0	NM	.0	.0	.0
Total Electric Industry	35,801	36,650	39,783	1.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Pennsylvania							
Coal	100,390,066	105,445,514	15,935,860	-18.5	55.4	54.5	7.8
Petroleum	4,559,186	2,307,411	39,420	-41.0	2.5	1.2	.0
Natural Gas	796,697	611,049	1,934	-48.8	.4	.3	.0
Nuclear	59,330,534	67,654,588	13,594,705	-15.1	32.7	35.0	6.7
Hydroelectric	1,124,203	1,147,954	965,324	-1.7	.6	.6	.5
Total Electric Utilities	166,200,686	177,166,516	30,537,243	-17.2	91.7	91.6	14.9
Coal	7,741,753	10,058,989	97,970,580	32.6	4.3	5.2	47.9
Petroleum	454,135	397,697	2,693,525	21.9	.3	.2	1.3
Natural Gas	3,072,971	2,043,854	6,713,603	9.1	1.7	1.1	3.3
Other Gases	1,097,976	756,189	568,725	-7.0	.6	.4	.3
Nuclear	0	0	62,494,225	NM	.0	.0	30.6
Hydroelectric	368,216	470,117	587,485	5.3	.2	.2	.3
Other Renewables	2,070,887	2,540,879	2,757,492	3.2	1.1	1.3	1.3
Other	207,510	28,955	0	NM	.1	.0	.0
Total IPP's & Combined Heat and Power	15,013,448	16,296,680	173,785,635	31.3	8.3	8.4	85.1
Coal	108,131,819	115,504,503	113,906,440	.6	59.7	59.7	55.7
Petroleum	5,013,321	2,705,108	2,732,945	-6.5	2.8	1.4	1.3
Natural Gas	3,869,668	2,654,903	6,715,537	6.3	2.1	1.4	3.3
Other Gases	1,097,976	756,189	568,725	-7.0	.6	.4	.3
Nuclear	59,330,534	67,654,588	76,088,930	2.8	32.7	35.0	37.2
Hydroelectric	1,492,419	1,618,071	1,552,809	.4	.8	.8	.8
Other Renewables	2,070,887	2,540,879	2,757,492	3.2	1.1	1.3	1.3
Other	207,510	28,955	0	NM	.1	.0	.0
Total Electric Industry	181,214,134	193,463,196	204,322,878	1.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Pennsylvania				
Coal (2002 cents per million Btu)	160.1	139.3	125.3	-2.7
Average heat value (Btu per pound)	12,443	12,279	11,782	-6
Average sulfur Content(percent)	2.1	2.1	1.9	-7
Petroleum (2002 cents per million Btu)	263.4	230.9	463.9	6.5
Average heat value (Btu per gallon)	141,623	126,593	143,421	.1
Average sulfur Content(percent)	1.2	2.3	.5	-9.4
Gas (2002 cents per million Btu)	287.2	300.6	389.9	3.4
Average heat value (Btu per cubic foot)	1,030	1,034	1,027	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Pennsylvania				
Sulfur Dioxide				
Coal	1,209	1,103	885	-3.4
Petroleum	41	25	7	-18.0
Gas.....	*	*	*	-8.7
Other.....	1	2	*	-15.0
Total	1,252	1,130	892	-3.7
Nitrogen Oxide				
Coal	370	278	211	-6.1
Petroleum	8	4	3	-10.0
Gas.....	18	12	4	-15.9
Other.....	4	4	6	3.9
Total	401	298	224	-6.3
Carbon Dioxide				
Coal	110,919	117,557	118,524	.7
Petroleum	5,023	2,927	2,844	-6.1
Gas.....	2,940	1,955	3,500	2.0
Other.....	283	351	356	2.6
Total	119,166	122,790	125,225	.5

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Pennsylvania							
Retail Sales (thousand megawatthours)							
Residential.....	41,455	42,715	48,876	1.8	34.5	33.4	34.7
Commercial.....	32,252	35,899	45,115	3.8	26.9	28.1	32.0
Industrial	44,949	47,957	45,367	.1	37.5	37.5	32.2
Other	1,325	1,304	1,430	.8	1.1	1.0	1.0
Total	119,981	127,875	140,787	1.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	4,410	4,344	4,747	.8	41.7	41.3	42.1
Commercial.....	2,979	3,102	3,623	2.2	28.1	29.5	32.1
Industrial	3,022	2,900	2,747	-1.0	28.6	27.6	24.4
Other	171	157	159	-.8	1.6	1.5	1.4
Total	10,582	10,503	11,276	.7	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.64	10.17	9.71	-1.0	NA	NA	NA
Commercial.....	9.24	8.64	8.03	-1.5	NA	NA	NA
Industrial	6.72	6.05	6.06	-1.1	NA	NA	NA
Other	12.88	12.04	11.10	-1.6	NA	NA	NA
Total	8.82	8.21	8.01	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Pennsylvania						
Number of Entities.....	10	36	0	13	20	79
Number of Retail Customers.....	4,363,782	660,382	0	205,487	462,446	5,692,097
Retail Sales (thousand megawatthours).....	113,585	13,797	0	2,273	11,132	140,787
Percentage of Retail Sales.....	80.68	9.80	.00	1.61	7.91	100.00
Revenue from Retail Sales (million 2002 dollars).....	9,390	1,053	0	237	597	11,276
Percentage of Revenue.....	83.27	9.34	.00	2.10	5.29	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	8.27	7.63	.00	10.41	0	8.01

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Rhode Island		
NERC Region(s).....		NPCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	1,723	49
Electric Utilities	9	50
Independent Power Producers & Combined Heat and Power	1,715	33
Net Generation (megawatthours).....	7,056,765	47
Electric Utilities	11,836	49
Independent Power Producers & Combined Heat and Power	7,044,929	29
Emissions (thousand short tons)		
Sulfur Dioxide.....	0	50
Nitrogen Oxide.....	1	49
Carbon Dioxide.....	3,294	48
Sulfur Dioxide/sq. mile.....	0	40
Nitrogen Oxide/sq. mile.....	1	29
Carbon Dioxide/sq. mile.....	3,152	7
Utility and ESP Retail Electricity Sales (megawatthours).....	7,543,652	49
Utility Retail Electricity Sales (megawatthours)	6,633,124	47
ESP Retail Electricity Sales (megawatthours).....	910,528	14
Direct Use (megawatthours).....	-12,999	44
Average Retail Price (cents/kWh).....	9.19	11

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Rhode Island			
1. Rhode Island State En	Gas	FPL Energy Operating Serv Inc	515
2. Manchester Street	Petroleum, Gas	U S Gen New England Inc	421
3. Tiverton Power Plant.....	Other, Gas	Calpine Eastern Corp	239
4. Ocean State Power.....	Gas	Ocean State Power Co	219
5. Ocean State Power II.....	Gas	Ocean State Power II	219
6. Pawtucket Power Assoc	Petroleum, Gas	Pawtucket Power Associates LP	64
7. Ridgewood Providence.....	Other	Ridgewood Power Management LLC	15
8. Rhode Island Hospital	Gas, Petroleum	Rhode Island Hospital	10
9. Block Island	Petroleum	Block Island Power Co	7
10. Central Power Plant	Petroleum	State of Rhode Island	5

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Rhode Island					
A. Narragansett Electric Company.....	6,575,579	2,796,307	2,825,954	941,882	11,436
B. Select Energy	362,119	0	102,672	2,108	257,339
C. TransCanada Power Market'g Ltd	323,762	0	0	323,762	0
D. New Energy Ventures, Inc	221,957	0	221,957	0	0
E. Pascoag Fire District.....	47,387	25,501	4,686	16,604	596
Total	7,530,804	2,821,808	3,155,269	1,284,356	269,371
Percentage of Utility Sales.....	100	100	100	100	100

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Rhode Island							
Petroleum	68	20	7	-22.0	9.9	2.0	0.4
Natural Gas	0	420	0	NM	.0	42.8	.0
Dual Fired	84	0	0	NM	12.3	.0	.0
Hydroelectric	1	1	1	-.5	.2	.1	.1
Total Electric Utilities	153	441	9	-27.3	22.4	45.0	.5
Petroleum	0	1	5	NM	.0	.1	.3
Natural Gas	0	0	906	NM	.0	.0	52.6
Dual Fired	515	521	785	4.8	75.3	53.1	45.6
Hydroelectric	3	3	3	.2	.4	.3	.2
Other Renewables	13	15	15	1.6	1.9	1.5	.9
Total IPP's & Combined Heat and Power	531	540	1,715	13.9	77.6	55.0	99.5
Petroleum	68	20	12	-17.2	9.9	2.1	.7
Natural Gas	0	420	906	NM	.0	42.8	52.6
Dual Fired	599	521	785	3.1	87.6	53.1	45.6
Hydroelectric	4	4	4	-.1	.6	.4	.2
Other Renewables	13	15	15	1.6	1.9	1.5	.9
Total Electric Industry	684	981	1,723	10.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Rhode Island							
Petroleum	28,582	16,609	11,836	-9.3	0.6	0.2	0.2
Natural Gas	25,158	3,546,224	0	NM	.5	46.0	.0
Total Electric Utilities	53,740	3,562,833	11,836	-15.5	1.2	46.2	.2
Petroleum	43,899	72,441	45,697	.4	.9	.9	.6
Natural Gas	4,483,473	3,962,181	6,310,417	3.9	96.1	51.4	89.4
Hydroelectric	9,385	7,509	3,685	-9.9	.2	.1	.1
Other Renewables	74,798	104,590	97,752	3.0	1.6	1.4	1.4
Other	0	0	587,378	NM	.0	.0	8.3
Total IPP's & Combined Heat and Power	4,611,556	4,146,721	7,044,929	4.8	98.8	53.8	99.8
Petroleum	72,481	89,050	57,533	-2.5	1.6	1.2	.8
Natural Gas	4,508,631	7,508,405	6,310,417	3.8	96.6	97.4	89.4
Hydroelectric	9,385	7,509	3,685	-9.9	.2	.1	.1
Other Renewables	74,798	104,590	97,752	3.0	1.6	1.4	1.4
Other	0	0	587,378	NM	.0	.0	8.3
Total Electric Industry	4,665,296	7,709,554	7,056,765	4.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Rhode Island				
Petroleum (2002 cents per million Btu)	356.4	0.0	0.0	NM
Average heat value (Btu per gallon).....	150,389	0	149,845	*
Average sulfur Content(percent)	1.0	.0	.0	NM
Gas (2002 cents per million Btu).....	266.4	335.4	455.4	6.1
Average heat value (Btu per cubic foot).....	1,051	1,027	1,018	-3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Rhode Island				
Sulfur Dioxide				
Petroleum	1	1	*	-4.2
Gas.....	*	*	*	-1.2
Total	1	1	1	-4.2
Nitrogen Oxide				
Petroleum	*	*	*	-5.5
Gas.....	2	4	1	-9.0
Other.....	*	*	1	1.3
Total	2	5	1	-5.8
Carbon Dioxide				
Petroleum	132	113	85	-4.8
Gas.....	2,143	3,638	3,209	4.6
Total	2,275	3,751	3,294	4.2

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Rhode Island							
Retail Sales (thousand megawatthours)							
Residential.....	2,412	2,486	2,826	1.8	36.8	37.1	37.5
Commercial.....	2,532	2,652	3,164	2.5	38.7	39.6	41.9
Industrial.....	1,419	1,380	1,285	-1.1	21.7	20.6	17.0
Other.....	186	174	269	4.2	2.8	2.6	3.6
Total.....	6,548	6,693	7,544	1.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	306	310	289	-6	40.3	42.1	41.6
Commercial.....	287	283	280	-3	37.8	38.5	40.3
Industrial.....	143	121	103	-3.5	18.8	16.4	14.9
Other.....	23	22	22	-6	3.0	3.0	3.1
Total.....	759	736	693	-1.0	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.68	12.45	10.21	-2.4	NA	NA	NA
Commercial.....	11.33	10.69	8.84	-2.7	NA	NA	NA
Industrial.....	10.06	8.76	8.04	-2.4	NA	NA	NA
Other.....	12.41	12.69	8.09	-4.6	NA	NA	NA
Total.....	11.58	11.00	9.19	-2.5	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Rhode Island						
Number of Entities.....	2	1	0	0	4	7
Number of Retail Customers.....	465,564	4,291	0	0	1,694	471,549
Retail Sales (thousand megawatthours).....	6,586	47	0	0	911	7,544
Percentage of Retail Sales.....	87.30	.63	.00	.00	12.07	100.00
Revenue from Retail Sales (million 2002 dollars).....	644	5	0	0	45	693
Percentage of Revenue.....	92.84	.68	.00	.00	6.49	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	9.77	9.88	.00	.00	0	9.19

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
South Carolina		
NERC Region(s).....		SERC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	20,363	16
Electric Utilities	19,101	12
Independent Power Producers & Combined Heat and Power	1,262	37
Net Generation (megawatthours)	96,563,498	14
Electric Utilities	93,689,257	9
Independent Power Producers & Combined Heat and Power	2,874,241	38
Emissions (thousand short tons)		
Sulfur Dioxide.....	216	19
Nitrogen Oxide.....	92	22
Carbon Dioxide.....	40,105	26
Sulfur Dioxide/sq. mile.....	7	16
Nitrogen Oxide/sq. mile.....	3	16
Carbon Dioxide/sq. mile.....	1,332	21
Utility and ESP Retail Electricity Sales (megawatthours).....	77,819,392	17
Utility Retail Electricity Sales (megawatthours)	77,819,392	17
Direct Use (megawatthours).....	1,601,683	22
Average Retail Price (cents/kWh).....	5.83	37

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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	Hydro	Duke Energy Corp	1,065
6. V C Sumner.....	Nuclear	South Carolina Electric&Gas Co	986
7. H B Robinson	Gas, Petroleum, Coal	Carolina Power & Light Co	899
8. Darlington County	Petroleum, Gas	Carolina Power & Light Co	812
9. Broad River Energy Ce.....	Gas	Broad River Energy LLC	802
10. John S Rainey	Gas	South Carolina Pub Serv Auth	744

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
South Carolina					
A. Duke Energy Corporation	21,378,725	5,877,145	5,044,924	10,411,519	45,137
B. South Carolina Electric&Gas Co	20,928,898	7,229,801	6,658,730	6,505,509	534,858
C. South Carolina Pub Serv Auth.....	11,156,755	1,395,584	1,719,639	7,970,307	71,225
D. Carolina Power & Light Company	7,103,316	2,122,401	1,703,543	3,186,442	90,930
E. Berkeley Electric Coop, Inc	1,373,745	1,042,397	123,432	153,241	54,675
Total	61,941,439	17,667,328	15,250,268	28,227,018	796,825
Percentage of Utility Sales.....	80	66	84	88	84

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
South Carolina							
Coal	4,812	5,794	5,925	2.3	29.0	32.5	29.1
Petroleum	287	671	669	9.9	1.7	3.8	3.3
Natural Gas	10	27	760	62.7	.1	.1	3.7
Other Gases	364	0	0	NM	2.2	.0	.0
Dual Fired	847	1,079	1,676	7.9	5.1	6.0	8.2
Nuclear	6,364	6,421	6,492	.2	38.4	36.0	31.9
Hydroelectric	3,448	3,439	3,579	.4	20.8	19.3	17.6
Total Electric Utilities	16,131	17,431	19,101	1.9	97.3	97.7	93.8
Coal	189	131	103	-6.5	1.1	.7	.5
Petroleum	1	1	3	11.0	.0	.0	.0
Natural Gas	1	1	399	89.2	.0	.0	2.0
Dual Fired	3	3	502	74.5	.0	.0	2.5
Hydroelectric	18	18	24	3.1	.1	.1	.1
Other Renewables	240	250	232	-4	1.4	1.4	1.1
Total IPP's & Combined Heat and Power	453	405	1,262	12.1	2.7	2.3	6.2
Coal	5,001	5,925	6,028	2.1	30.2	33.2	29.6
Petroleum	288	672	672	9.9	1.7	3.8	3.3
Natural Gas	11	28	1,159	68.2	.1	.2	5.7
Other Gases	364	0	0	NM	2.2	.0	.0
Dual Fired	850	1,082	2,177	11.0	5.1	6.1	10.7
Nuclear	6,364	6,421	6,492	.2	38.4	36.0	31.9
Hydroelectric	3,466	3,458	3,603	.4	20.9	19.4	17.7
Other Renewables	240	250	232	-4	1.4	1.4	1.1
Total Electric Industry	16,584	17,836	20,363	2.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
South Carolina							
Coal	26,532,193	31,042,658	36,490,769	3.6	33.9	38.4	37.8
Petroleum	95,193	188,326	205,664	8.9	.1	.2	.2
Natural Gas	121,113	181,202	3,466,140	45.2	.2	.2	3.6
Nuclear	46,188,884	44,915,514	53,325,854	1.6	59.1	55.6	55.2
Hydroelectric	2,651,003	2,046,750	185,308	-25.6	3.4	2.5	.2
Other Renewables	0	0	15,522	NM	.0	.0	.0
Total Electric Utilities	75,588,386	78,374,450	93,689,257	2.4	96.7	97.0	97.0
Coal	707,766	531,716	456,953	-4.7	.9	.7	.5
Petroleum	107,045	175,679	94,673	-1.4	.1	.2	.1
Natural Gas	86,602	109,510	1,032,179	31.7	.1	.1	1.1
Other Gases	24,411	1,141	314	-38.4	.0	.0	.0
Hydroelectric	60,020	56,360	61,227	.2	.1	.1	.1
Other Renewables	1,593,086	1,574,159	1,228,895	-2.8	2.0	1.9	1.3
Other	7,517	5,045	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	2,586,447	2,453,609	2,874,241	1.2	3.3	3.0	3.0
Coal	27,239,959	31,574,374	36,947,722	3.4	34.8	39.1	38.3
Petroleum	202,238	364,005	300,337	4.5	.3	.5	.3
Natural Gas	207,715	290,712	4,498,319	40.7	.3	.4	4.7
Other Gases	24,411	1,141	314	-38.4	.0	.0	.0
Nuclear	46,188,884	44,915,514	53,325,854	1.6	59.1	55.6	55.2
Hydroelectric	2,711,023	2,103,110	246,535	-23.4	3.5	2.6	.3
Other Renewables	1,593,086	1,574,159	1,244,417	-2.7	2.0	1.9	1.3
Other	7,517	5,045	0	NM	.0	.0	.0
Total Electric Industry	78,174,833	80,828,059	96,563,498	2.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
South Carolina				
Coal (2002 cents per million Btu)	174.9	148.8	158.8	-1.1
Average heat value (Btu per pound)	12,802	12,855	12,361	-.4
Average sulfur Content(percent)	1.2	1.2	1.2	*
Petroleum (2002 cents per million Btu)	474.4	466.7	466.0	-.2
Average heat value (Btu per gallon)	138,144	138,068	144,638	.5
Average sulfur Content(percent) .....	.0	.0	1.2	NM
Gas (2002 cents per million Btu)	324.5	408.6	270.1	-2.0
Average heat value (Btu per cubic foot)	1,021	1,024	1,028	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
South Carolina				
Sulfur Dioxide				
Coal	185	196	208	1.3
Petroleum	1	1	2	17.9
Gas	0	0	0	NM
Other	4	4	5	4.2
Total	189	201	216	1.5
Nitrogen Oxide				
Coal	92	106	88	-4
Petroleum	*	*	*	3.3
Gas	1	*	1	-2.4
Other	1	1	2	6.7
Total	94	107	92	-3
Carbon Dioxide				
Coal	27,680	32,072	37,527	3.4
Petroleum	198	376	338	6.1
Gas	169	235	2,240	33.2
Other	8	10	0	NM
Total	28,056	32,693	40,105	4.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
South Carolina							
Retail Sales (thousand megawatthours)							
Residential	20,687	21,611	26,787	2.9	33.6	31.5	34.4
Commercial	13,177	14,806	18,157	3.6	21.4	21.6	23.3
Industrial	26,867	31,278	31,926	1.9	43.7	45.6	41.0
Other	802	840	950	1.9	1.3	1.2	1.2
Total	61,533	68,534	77,819	2.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential	1,689	1,668	2,069	2.3	43.7	43.0	45.6
Commercial	914	963	1,177	2.9	23.6	24.8	25.9
Industrial	1,214	1,193	1,229	.1	31.4	30.8	27.1
Other	51	52	61	2.1	1.3	1.3	1.3
Total	3,868	3,875	4,537	1.8	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential	8.17	7.72	7.72	-6	NA	NA	NA
Commercial	6.93	6.50	6.48	-7	NA	NA	NA
Industrial	4.52	3.81	3.85	-1.8	NA	NA	NA
Other	6.32	6.21	6.44	.2	NA	NA	NA
Total	6.29	5.65	5.83	-8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
South Carolina						
Number of Entities	2	26	0	19	0	47
Number of Retail Customers	560,167	982,091	0	602,562	0	2,144,820
Retail Sales (thousand megawatthours).....	21,135	43,779	0	12,906	0	77,819
Percentage of Retail Sales.....	27.16	56.26	.00	16.58	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	1,305	2,308	0	923	0	4,537
Percentage of Revenue.....	28.77	50.88	.00	20.35	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.18	5.27	.00	7.15	0	5.83

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
South Dakota		
NERC Region(s).....		WSCC/MAPP
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	2,854	46
Electric Utilities	2,854	37
Net Generation (megawatthours).....	7,721,958	46
Electric Utilities	7,721,958	39
Emissions (thousand short tons)		
Sulfur Dioxide.....	13	45
Nitrogen Oxide.....	16	40
Carbon Dioxide.....	3,845	47
Sulfur Dioxide/sq. mile.....	0	47
Nitrogen Oxide/sq. mile.....	0	47
Carbon Dioxide/sq. mile.....	51	48
Utility and ESP Retail Electricity Sales (megawatthours).....	8,936,801	48
Utility Retail Electricity Sales (megawatthours)	8,936,801	46
Average Retail Price (cents/kWh).....	6.26	27

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
South Dakota			
1. Oahe	Hydro	USCE-Missouri River District	714
2. Big Bend	Hydro	USCE-Missouri River District	509
3. Big Stone	Petroleum, Coal	Otter Tail Power Co	456
4. Fort Randall	Hydro	USCE-Missouri River District	353
5. Angus Anson	Petroleum, Gas	Northern States Power Co	229
6. Gavins Point.....	Hydro	USCE-Missouri River District	102
7. Ben French.....	Petroleum, Gas, Coal	Black Hills Corp	100
8. Spirit Mound.....	Petroleum	Basin Electric Power Coop	96
9. Pathfinder	Gas	Northern States Power Co	61
10. Huron.....	Gas	Northwestern Public Service Co	55

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
South Dakota					
A. Northern States Power Company.....	1,649,284	557,369	751,330	331,848	8,737
B. Black Hills Power Inc	1,358,155	436,721	601,416	294,073	25,945
C. NorthWestern Public Service Co	1,189,391	458,557	504,069	209,290	17,475
D. Sioux Valley Southwestern El	330,579	208,588	69,196	49,073	3,722
E. Western Area Power Admin.....	317,363	0	0	0	317,363
Total	4,844,772	1,661,235	1,926,011	884,284	373,242
Percentage of Utility Sales.....	54	45	63	55	69

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
South Dakota							
Coal	467	467	477	0.2	17.1	16.0	16.7
Petroleum	223	208	238	.7	8.2	7.1	8.3
Natural Gas	86	293	324	15.9	3.1	10.0	11.3
Dual Fired	138	138	135	-2	5.0	4.7	4.7
Hydroelectric	1,820	1,820	1,678	-9	66.6	62.2	58.8
Other Renewables	0	0	3	NM	.0	.0	.1
Total Electric Utilities	2,733	2,927	2,854	.5	100.0	100.0	100.0
Coal	467	467	477	.2	17.1	16.0	16.7
Petroleum	223	208	238	.7	8.2	7.1	8.3
Natural Gas	86	293	324	15.9	3.1	10.0	11.3
Dual Fired	138	138	135	-2	5.0	4.7	4.7
Hydroelectric	1,820	1,820	1,678	-9	66.6	62.2	58.8
Other Renewables	0	0	3	NM	.0	.0	.1
Total Electric Industry	2,733	2,927	2,854	.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
South Dakota							
Coal	2,641,582	3,314,068	3,271,523	2.4	50.3	26.6	42.4
Petroleum	12,287	6,536	4,961	-9.6	.2	.1	.1
Natural Gas	10,527	116,637	85,778	26.2	.2	.9	1.1
Hydroelectric	2,591,115	9,012,260	4,353,653	5.9	49.3	72.4	56.4
Other Renewables	0	0	6,043	NM	.0	.0	.1
Total Electric Utilities	5,255,511	12,449,501	7,721,958	4.4	100.0	100.0	100.0
Coal	2,641,582	3,314,068	3,271,523	2.4	50.3	26.6	42.4
Petroleum	12,287	6,536	4,961	-9.6	.2	.1	.1
Natural Gas	10,527	116,637	85,778	26.2	.2	.9	1.1
Hydroelectric	2,591,115	9,012,260	4,353,653	5.9	49.3	72.4	56.4
Other Renewables	0	0	6,043	NM	.0	.0	.1
Total Electric Industry	5,255,511	12,449,501	7,721,958	4.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
South Dakota				
Coal (2002 cents per million Btu)	122.4	94.6	129.5	0.6
Average heat value (Btu per pound)	6,057	8,687	8,477	3.8
Average sulfur Content(percent) .....	.9	.6	.4	-9.4
Petroleum (2002 cents per million Btu)	520.9	.0	.0	NM
Average heat value (Btu per gallon)	140,000	0	139,945	.0
Gas (2002 cents per million Btu).....	265.1	.0	.0	NM
Average heat value (Btu per cubic foot).....	1,014	0	980	-4

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
South Dakota				
Sulfur Dioxide				
Coal	31	25	13	-9.5
Petroleum	*	*	0	NM
Other.....	0	*	0	NM
Total	31	25	13	-9.5
Nitrogen Oxide				
Coal	19	24	16	-1.4
Petroleum	*	0	0	NM
Gas.....	*	*	*	13.1
Other.....	0	*	0	NM
Total	19	24	16	-1.3
Carbon Dioxide				
Coal	3,294	3,760	3,762	1.5
Petroleum	15	11	7	-8.3
Gas.....	11	103	76	23.9
Total	3,320	3,873	3,845	1.6

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
South Dakota							
Retail Sales (thousand megawatthours)							
Residential.....	3,109	3,376	3,733	2.0	45.0	43.4	41.8
Commercial.....	1,621	2,207	3,062	7.3	23.5	28.4	34.3
Industrial.....	1,847	1,841	1,604	-1.6	26.8	23.7	17.9
Other.....	327	349	538	5.7	4.7	4.5	6.0
Total.....	6,905	7,773	8,937	2.9	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	244	246	276	1.4	51.1	49.5	49.3
Commercial.....	122	150	191	5.1	25.5	30.3	34.1
Industrial.....	95	84	73	-2.9	19.8	16.8	13.0
Other.....	17	17	20	1.8	3.5	3.4	3.5
Total.....	477	497	560	1.8	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.84	7.28	7.40	-6	NA	NA	NA
Commercial.....	7.51	6.82	6.24	-2.0	NA	NA	NA
Industrial.....	5.12	4.55	4.54	-1.3	NA	NA	NA
Other.....	5.07	4.85	3.63	-3.6	NA	NA	NA
Total.....	6.91	6.39	6.26	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
South Dakota						
Number of Entities.....	1	49	0	23	0	73
Number of Retail Customers.....	57,406	242,439	0	95,186	0	395,031
Retail Sales (thousand megawatthours).....	1,189	5,939	0	1,808	0	8,937
Percentage of Retail Sales.....	13.31	66.46	.00	20.23	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	83	346	0	131	0	560
Percentage of Revenue.....	14.88	61.75	.00	23.37	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.00	5.82	.00	7.24	0	6.26

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Tennessee		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	20,723	15
Electric Utilities	19,136	11
Independent Power Producers & Combined Heat and Power	1,587	34
Net Generation (megawatthours)	96,114,261	15
Electric Utilities	92,570,929	10
Independent Power Producers & Combined Heat and Power	3,543,332	37
Emissions (thousand short tons)		
Sulfur Dioxide	345	13
Nitrogen Oxide	162	12
Carbon Dioxide	63,214	14
Sulfur Dioxide/sq. mile.....	8	14
Nitrogen Oxide/sq. mile.....	4	12
Carbon Dioxide/sq. mile.....	1,534	17
Utility and ESP Retail Electricity Sales (megawatthours).....	98,233,027	13
Utility Retail Electricity Sales (megawatthours)	98,233,027	13
Direct Use (megawatthours).....	3,200,072	12
Average Retail Price (cents/kWh).....	5.72	40

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Tennessee			
1. Cumberland.....	Petroleum, Coal	Tennessee Valley Authority	2,455
2. Johnsonville	Gas, Petroleum, Coal	Tennessee Valley Authority	2,318
3. Sequoyah.....	Nuclear	Tennessee Valley Authority	2,251
4. Raccoon Mountain.....	Hydro	Tennessee Valley Authority	1,624
5. Gallatin.....	Gas, Petroleum, Coal	Tennessee Valley Authority	1,572
6. Kingston.....	Petroleum, Coal	Tennessee Valley Authority	1,434
7. Allen Steam Plant.....	Petroleum, Gas, Coal	Tennessee Valley Authority	1,194
8. Watts Bar Nuclear Pla.....	Nuclear	Tennessee Valley Authority	1,138
9. Lagoon Creek.....	Nuclear	Tennessee Valley Authority	952
10. Bull Run.....	Petroleum, Coal	Tennessee Valley Authority	865

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Tennessee					
A. City of Memphis.....	14,292,842	5,447,177	4,663,000	4,034,209	148,456
B. Nashville Electric Service	12,148,170	4,553,217	4,328,996	3,145,532	120,425
C. Tennessee Valley Authority	8,733,791	0	0	8,724,908	8,883
D. City of Chattanooga.....	5,751,011	2,042,047	1,830,556	1,821,473	56,935
E. City of Knoxville	5,450,450	2,422,073	1,681,845	1,282,462	64,070
Total	46,376,264	14,464,514	12,504,397	19,008,584	398,769
Percentage of Utility Sales.....	47	37	47	60	36

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Tennessee							
Coal	8,691	8,604	8,602	-0.1	52.2	47.9	41.5
Petroleum	0	0	56	NM	.0	.0	.3
Dual Fired	1,568	1,649	3,116	7.9	9.4	9.2	15.0
Nuclear	2,217	3,357	3,389	4.8	13.3	18.7	16.4
Hydroelectric	3,748	3,751	3,972	.6	22.5	20.9	19.2
Other Renewables	0	0	2	NM	.0	.0	.0
Total Electric Utilities	16,224	17,361	19,137	1.9	97.5	96.6	92.3
Coal	286	309	276	-4	1.7	1.7	1.3
Natural Gas	28	28	1,034	49.3	.2	.2	5.0
Other Gases	0	5	0	NM	.0	.0	.0
Dual Fired	0	4	0	NM	.0	.0	.0
Hydroelectric	0	170	165	NM	.0	.9	.8
Other Renewables	62	50	112	6.8	.4	.3	.5
Other	38	38	0	NM	.2	.2	.0
Total IPP's & Combined Heat and Power	414	604	1,587	16.1	2.5	3.4	7.7
Coal	8,977	8,913	8,878	-1	54.0	49.6	42.8
Petroleum	0	0	56	NM	.0	.0	.3
Natural Gas	28	28	1,034	49.3	.2	.2	5.0
Other Gases	0	5	0	NM	.0	.0	.0
Dual Fired	1,568	1,653	3,116	7.9	9.4	9.2	15.0
Nuclear	2,217	3,357	3,389	4.8	13.3	18.7	16.4
Hydroelectric	3,748	3,921	4,137	1.1	22.5	21.8	20.0
Other Renewables	62	50	114	7.0	.4	.3	.6
Other	38	38	0	NM	.2	.2	.0
Total Electric Industry	16,639	17,965	20,723	2.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Tennessee							
Coal	59,559,596	58,899,058	58,080,553	-0.3	80.6	60.8	60.4
Petroleum	234,545	192,880	250,325	.7	.3	.2	.3
Natural Gas	121,222	152,081	40,414	-11.5	.2	.2	.0
Nuclear	3,304,836	24,647,994	27,573,925	26.6	4.5	25.5	28.7
Hydroelectric	8,394,069	9,401,219	6,621,644	-2.6	11.4	9.7	6.9
Other Renewables	0	0	4,068	NM	.0	.0	.0
Total Electric Utilities	71,614,268	93,293,232	92,570,929	2.9	96.9	96.4	96.3
Coal	1,535,227	1,618,639	1,625,128	.6	2.1	1.7	1.7
Petroleum	4,561	4,730	19,288	17.4	.0	.0	.0
Natural Gas	171,504	204,505	429,159	10.7	.2	.2	.4
Other Gases	2,681	17,555	11,873	18.0	.0	.0	.0
Hydroelectric	0	964,685	656,175	NM	.0	1.0	.7
Other Renewables	487,722	595,285	798,396	5.6	.7	.6	.8
Other	68,236	115,440	3,314	-28.5	.1	.1	.0
Total IPP's & Combined Heat and Power	2,269,931	3,520,839	3,543,332	5.1	3.1	3.6	3.7
Coal	61,094,823	60,517,697	59,705,681	-.3	82.7	62.5	62.1
Petroleum	239,106	197,610	269,613	1.3	.3	.2	.3
Natural Gas	292,726	356,586	469,573	5.4	.4	.4	.5
Other Gases	2,681	17,555	11,873	18.0	.0	.0	.0
Nuclear	3,304,836	24,647,994	27,573,925	26.6	4.5	25.5	28.7
Hydroelectric	8,394,069	10,365,904	7,277,819	-1.6	11.4	10.7	7.6
Other Renewables	487,722	595,285	802,464	5.7	.7	.6	.8
Other	68,236	115,440	3,314	-28.5	.1	.1	.0
Total Electric Industry	73,884,199	96,814,071	96,114,261	3.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Tennessee				
Coal (2002 cents per million Btu)	140.6	115.6	121.7	-1.6
Average heat value (Btu per pound)	12,268	11,855	11,631	-.6
Average sulfur Content(percent)	1.9	1.9	1.3	-4.1
Petroleum (2002 cents per million Btu)	480.8	451.2	536.3	1.2
Average heat value (Btu per gallon)	138,361	139,900	138,486	*
Average sulfur Content(percent) .....	.0	.0	.5	NM
Gas (2002 cents per million Btu) .....	.0	.0	322.6	NM
Average heat value (Btu per cubic foot)	0	0	1,024	NM

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Tennessee				
Sulfur Dioxide				
Coal	847	529	341	-9.6
Petroleum	*	*	*	6.7
Gas.....	0	0	0	NM
Other.....	1	2	4	11.3
Total	849	531	345	-9.5
Nitrogen Oxide				
Coal	229	282	160	-3.9
Petroleum	*	*	*	2.2
Gas.....	1	1	1	3.7
Other.....	1	1	1	9.6
Total	230	283	162	-3.8
Carbon Dioxide				
Coal	60,644	60,865	62,678	.4
Petroleum	195	179	179	-.9
Gas.....	211	254	356	6.0
Other.....	15	10	1	-23.3
Total	61,064	61,307	63,214	.4

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Tennessee							
Retail Sales (thousand megawatthours)							
Residential.....	30,199	33,367	38,752	2.8	37.8	38.4	39.4
Commercial.....	5,175	24,745	26,523	19.9	6.5	28.5	27.0
Industrial	43,530	27,710	31,845	-3.4	54.5	31.9	32.4
Other	928	1,095	1,113	2.0	1.2	1.3	1.1
Total	79,832	86,917	98,233	2.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,936	2,066	2,483	2.8	41.7	43.6	44.2
Commercial.....	385	1,502	1,712	18.0	8.3	31.7	30.5
Industrial	2,241	1,085	1,322	-5.7	48.3	22.9	23.5
Other	82	89	99	2.2	1.8	1.9	1.8
Total	4,644	4,742	5,616	2.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	6.41	6.19	6.41	*	NA	NA	NA
Commercial.....	7.44	6.07	6.45	-1.6	NA	NA	NA
Industrial	5.15	3.92	4.15	-2.4	NA	NA	NA
Other	8.82	8.09	8.92	.1	NA	NA	NA
Total	5.82	5.46	5.72	-2	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Tennessee						
Number of Entities.....	1	71	0	19	0	91
Number of Retail Customers.....	45,450	2,052,094	0	798,506	0	2,896,050
Retail Sales (thousand megawatthours).....	1,935	77,506	0	18,793	0	98,233
Percentage of Retail Sales.....	1.97	78.90	.00	19.13	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	82	4,342	0	1,192	0	5,616
Percentage of Revenue.....	1.46	77.31	.00	21.23	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.24	5.60	.00	6.34	0	5.72

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Texas		
NERC Region(s).....		ERCOT/SPP/WSCC/SERC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	94,488	1
Electric Utilities	38,903	2
Independent Power Producers & Combined Heat and Power	55,585	1
Net Generation (megawatthours)	385,628,543	1
Electric Utilities	149,587,269	2
Independent Power Producers & Combined Heat and Power	236,041,274	1
Emissions (thousand short tons)		
Sulfur Dioxide	629	4
Nitrogen Oxide.....	347	3
Carbon Dioxide.....	269,909	1
Sulfur Dioxide/sq. mile.....	2	28
Nitrogen Oxide/sq. mile.....	1	28
Carbon Dioxide/sq. mile.....	1,031	26
Utility and ESP Retail Electricity Sales (megawatthours).....	320,845,849	1
Utility Retail Electricity Sales (megawatthours)	320,844,140	1
ESP Retail Electricity Sales (megawatthours)	1,709	19
Direct Use (megawatthours).....	36,166,892	1
Average Retail Price (cents/kWh).....	6.62	23

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Texas			
1. W A Parish	Gas, Coal	CenterPoint Energy Houston Elec	3,766
2. South Texas Project.....	Nuclear	CenterPoint Energy Houston Elec	2,529
3. Cedar Bayou	Gas	CenterPoint Energy Houston Elec	2,320
4. P H Robinson.....	Gas	CenterPoint Energy Houston Elec	2,265
5. Martin Lake	Petroleum, Coal	TXU Generation Co LP	2,250
6. Comanche Peak	Nuclear	TXU Generation Co LP	2,208
7. Monticello	Petroleum, Coal	TXU Generation Co LP	1,875
8. Sabine.....	Petroleum, Gas	Entergy Gulf States Inc	1,843
9. Limestone.....	Gas, Coal	CenterPoint Energy Houston Elec	1,646
10. Fayette Power Project.....	Petroleum, Coal	Lower Colorado River Authority	1,605

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002 (Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Texas					
A. TXU Energy Retail Co LP.....	89,456,982	37,118,787	20,133,202	32,204,993	0
B. Reliant Energy Retail Serv LLC.....	33,941,943	20,892,300	13,049,643	0	0
C. Reliant Energy Solutions LLC.....	23,015,860	0	0	23,015,860	0
D. San Antonio Public Service Bd	17,000,863	7,254,629	4,943,111	2,903,812	1,899,311
E. Entergy Gulf States, Inc	14,987,342	4,981,688	3,577,511	6,172,852	255,291
Total	178,402,990	70,247,404	41,703,467	64,297,517	2,154,602
Percentage of Utility Sales.....	56	58	48	63	23

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Texas							
Coal	19,335	19,587	12,398	-4.8	27.1	26.7	13.1
Petroleum	29	36	4	-19.4	.0	.0	.0
Natural Gas	9,005	9,111	11,031	2.3	12.6	12.4	11.7
Dual Fired	30,065	30,623	12,244	-9.5	42.1	41.7	13.0
Nuclear	4,782	4,800	2,529	-6.8	6.7	6.5	2.7
Hydroelectric	652	686	690	.6	.9	.9	.7
Other Renewables	*	1	7	45.5	.0	.0	.0
Other	0	13	0	NM	.0	.0	.0
Total Electric Utilities	63,868	64,857	38,903	-5.4	89.4	88.3	41.2
Coal	338	340	7,798	41.7	.5	.5	8.3
Petroleum	74	70	469	22.7	.1	.1	.5
Natural Gas	5,466	6,589	25,348	18.6	7.7	9.0	26.8
Other Gases	131	156	295	9.5	.2	.2	.3
Dual Fired	1,282	1,130	18,141	34.2	1.8	1.5	19.2
Nuclear	0	0	2,208	NM	.0	.0	2.3
Hydroelectric	0	2	7	NM	.0	.0	.0
Other Renewables	218	242	1,200	20.9	.3	.3	1.3
Other	70	70	118	6.0	.1	.1	.1
Total IPP's & Combined Heat and Power	7,578	8,597	55,585	24.8	10.6	11.7	58.8
Coal	19,673	19,927	20,196	.3	27.5	27.1	21.4
Petroleum	103	105	473	18.5	.1	.1	.5
Natural Gas	14,470	15,700	36,379	10.8	20.3	21.4	38.5
Other Gases	131	156	295	9.5	.2	.2	.3
Dual Fired	31,347	31,753	30,385	-3	43.9	43.2	32.2
Nuclear	4,782	4,800	4,737	-1	6.7	6.5	5.0
Hydroelectric	652	687	697	.8	.9	.9	.7
Other Renewables	218	243	1,208	21.0	.3	.3	1.3
Other	70	83	118	6.0	.1	.1	.1
Total Electric Industry	71,446	73,454	94,488	3.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Texas							
Coal	128,266,337	135,696,240	90,259,574	-3.8	42.8	40.3	23.4
Petroleum	452,909	187,844	25,987	-27.2	.2	.1	.0
Natural Gas	104,966,938	102,163,775	39,173,483	-10.4	35.0	30.4	10.2
Nuclear	12,406,774	37,357,647	19,049,602	4.9	4.1	11.1	4.9
Hydroelectric	1,786,405	1,784,629	1,076,338	-5.5	.6	.5	.3
Other Renewables	294,877	212	2,285	-41.7	.1	.0	.0
Total Electric Utilities	248,174,240	277,190,347	149,587,269	-5.5	82.8	82.4	38.8
Coal	2,779,665	2,794,862	51,587,666	38.3	.9	.8	13.4
Petroleum	1,401,559	1,335,993	1,594,978	1.4	.5	.4	.4
Natural Gas	42,327,176	49,340,994	157,259,927	15.7	14.1	14.7	40.8
Other Gases	3,281,371	3,705,248	3,052,992	-8	1.1	1.1	.8
Nuclear	0	0	16,568,402	NM	.0	.0	4.3
Hydroelectric	0	6,121	47,154	NM	.0	.0	.0
Other Renewables	1,323,574	1,541,710	3,991,150	13.0	.4	.5	1.0
Other	401,131	404,237	1,939,005	19.1	.1	.1	.5
Total IPP's & Combined Heat and Power	51,514,476	59,129,165	236,041,274	18.4	17.2	17.6	61.2
Coal	131,046,002	138,491,102	141,847,240	.9	43.7	41.2	36.8
Petroleum	1,854,468	1,523,837	1,620,965	-1.5	.6	.5	.4
Natural Gas	147,294,114	151,504,769	196,433,410	3.3	49.1	45.0	50.9
Other Gases	3,281,371	3,705,248	3,052,992	-8	1.1	1.1	.8
Nuclear	12,406,774	37,357,647	35,618,004	12.4	4.1	11.1	9.2
Hydroelectric	1,786,405	1,790,750	1,123,492	-5.0	.6	.5	.3
Other Renewables	1,618,451	1,541,922	3,993,435	10.6	.5	.5	1.0
Other	401,131	404,237	1,939,005	19.1	.1	.1	.5
Total Electric Industry	299,688,716	336,319,512	385,628,543	2.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Texas				
Coal (2002 cents per million Btu)	160.0	129.4	126.5	-2.6
Average heat value (Btu per pound)	7,284	7,423	7,700	.6
Average sulfur Content(percent) .....	.7	.7	.7	-1.1
Petroleum (2002 cents per million Btu)	199.1	351.1	199.6	*
Average heat value (Btu per gallon)	112,765	114,810	138,090	2.3
Average sulfur Content(percent)	1.9	3.5	3.9	8.6
Gas (2002 cents per million Btu)	268.4	270.6	331.7	2.4
Average heat value (Btu per cubic foot)	1,026	1,023	1,019	-.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Texas				
Sulfur Dioxide				
Coal	601	712	612	0.2
Petroleum	49	39	6	-21.0
Gas	*	*	0	NM
Other	4	6	6	3.5
Total	655	757	623	-5
Nitrogen Oxide				
Coal	472	280	187	-9.8
Petroleum	4	3	3	-1.8
Gas	174	191	151	-1.6
Other	3	4	6	6.4
Total	653	478	347	-6.8
Carbon Dioxide				
Coal	145,253	154,993	164,436	1.4
Petroleum	2,296	1,921	2,473	.8
Gas	85,190	87,396	103,000	2.1
Total	232,738	244,310	269,909	1.7

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Texas							
Retail Sales (thousand megawatthours)							
Residential	87,686	101,094	121,435	3.7	35.1	35.3	37.8
Commercial	64,331	72,042	87,746	3.5	25.7	25.1	27.3
Industrial	86,933	100,429	102,251	1.8	34.8	35.0	31.9
Other	11,134	13,138	9,414	-1.8	4.4	4.6	2.9
Total	250,084	286,704	320,846	2.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential	7,817	8,123	9,778	2.5	43.9	44.7	46.0
Commercial	4,976	4,987	6,095	2.3	27.9	27.4	28.7
Industrial	4,185	4,184	4,761	1.4	23.5	23.0	22.4
Other	828	871	616	-3.2	4.6	4.8	2.9
Total	17,805	18,165	21,251	2.0	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential	8.91	8.04	8.05	-1.1	NA	NA	NA
Commercial	7.73	6.92	6.95	-1.2	NA	NA	NA
Industrial	4.81	4.17	4.66	-4	NA	NA	NA
Other	7.44	6.63	6.55	-1.4	NA	NA	NA
Total	7.12	6.34	6.62	-8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Texas						
Number of Entities	6	118	0	60	1	185
Number of Retail Customers	332,048	8,438,624	0	1,496,304	1	10,266,977
Retail Sales (thousand megawatthours).....	5,625	285,782	0	29,437	2	320,846
Percentage of Retail Sales.....	1.75	89.07	.00	9.17	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	544	18,580	0	2,126	0	21,251
Percentage of Revenue.....	2.56	87.43	.00	10.00	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	9.68	6.50	.00	7.22	0	6.62

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Utah		
NERC Region(s).....		WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	5,752	39
Electric Utilities	5,573	31
Independent Power Producers & Combined Heat and Power	179	47
Net Generation (megawatthours).....	36,608,003	35
Electric Utilities	36,071,946	29
Independent Power Producers & Combined Heat and Power	536,057	46
Emissions (thousand short tons)		
Sulfur Dioxide	51	34
Nitrogen Oxide	77	30
Carbon Dioxide	37,173	28
Sulfur Dioxide/sq. mile.....	1	39
Nitrogen Oxide/sq. mile.....	1	35
Carbon Dioxide/sq. mile.....	452	37
Utility and ESP Retail Electricity Sales (megawatthours).....	23,267,188	37
Utility Retail Electricity Sales (megawatthours)	23,267,188	37
Direct Use (megawatthours).....	400,012	33
Average Retail Price (cents/kWh).....	5.39	47

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Utah			
1. Intermountain Power P.....	Petroleum, Coal	Los Angeles City of	1,640
2. Hunter.....	Petroleum, Coal	PacifiCorp	1,320
3. Huntington	Petroleum, Coal	PacifiCorp	895
4. Bonanza.....	Petroleum, Coal	Deseret Generation & Tran Coop	425
5. Gadsby	Gas	PacifiCorp	349
6. West Valley Generatio	Gas	PacifiCorp	185
7. Carbon.....	Petroleum, Coal	PacifiCorp	172
8. Murray Turbine.....	Gas	Murray City of	159
9. Flaming Gorge.....	Hydro	U S Bureau of Reclamation	152
10. Desert Power LP.....	Gas	Desert Power LP	68

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Utah					
A. PacifiCorp.....	18,719,865	5,250,614	6,517,053	6,403,497	548,701
B. Provo City Corporation	706,560	213,901	367,429	120,392	4,838
C. St George Dept Water & Power	467,707	210,792	240,872	0	16,043
D. Logan City Light & Power	388,401	83,846	153,204	86,021	65,330
E. Murray City Power Department	365,004	110,967	244,972	0	9,065
Total	20,647,537	5,870,120	7,523,530	6,609,910	643,977
Percentage of Utility Sales.....	89	85	89	94	76

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Utah							
Coal	4,271	4,318	4,461	0.5	86.3	85.1	77.6
Petroleum	25	33	28	1.0	.5	.7	.5
Natural Gas	173	238	719	17.1	3.5	4.7	12.5
Dual Fired	54	57	81	4.5	1.1	1.1	1.4
Hydroelectric	253	263	252	.0	5.1	5.2	4.4
Other Renewables	35	35	33	-.8	.7	.7	.6
Total Electric Utilities	4,812	4,945	5,573	1.6	97.2	97.4	96.9
Coal	54	54	101	7.1	1.1	1.1	1.8
Petroleum	1	10	3	10.3	.0	.2	.1
Natural Gas	2	11	72	49.7	.0	.2	1.2
Other Gases	48	48	0	NM	1.0	.9	.0
Dual Fired	20	3	0	NM	.4	.1	.0
Hydroelectric	10	4	2	-15.7	.2	.1	.0
Other Renewables	0	0	1	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	136	130	179	3.1	2.8	2.6	3.1
Coal	4,325	4,372	4,562	.6	87.4	86.2	79.3
Petroleum	27	43	31	1.6	.5	.9	.5
Natural Gas	175	249	791	18.2	3.5	4.9	13.7
Other Gases	48	48	0	NM	1.0	.9	.0
Dual Fired	75	60	81	.8	1.5	1.2	1.4
Hydroelectric	263	267	254	-.4	5.3	5.3	4.4
Other Renewables	35	35	34	-.3	.7	.7	.6
Total Electric Industry	4,948	5,075	5,752	1.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Utah							
Coal	31,919,309	32,143,936	34,080,979	0.7	93.7	92.6	93.1
Petroleum	32,104	28,836	53,469	5.8	.1	.1	.1
Natural Gas	542,969	297,457	1,268,326	9.9	1.6	.9	3.5
Hydroelectric	818,409	1,330,578	451,521	-6.4	2.4	3.8	1.2
Other Renewables	148,148	168,518	217,651	4.4	.4	.5	.6
Total Electric Utilities	33,460,939	33,969,325	36,071,946	.8	98.2	97.9	98.5
Coal	206,484	400,067	406,744	7.8	.6	1.2	1.1
Petroleum	4,482	18,112	50	-39.3	.0	.1	.0
Natural Gas	63,130	30,108	111,855	6.6	.2	.1	.3
Other Gases	281,457	281,018	0	NM	.8	.8	.0
Hydroelectric	41,611	13,583	6,211	-19.0	.1	.0	.0
Other Renewables	0	0	11,197	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	597,163	742,888	536,057	-1.2	1.8	2.1	1.5
Coal	32,125,793	32,544,003	34,487,723	.8	94.3	93.8	94.2
Petroleum	36,586	46,948	53,519	4.3	.1	.1	.1
Natural Gas	606,099	327,565	1,380,181	9.6	1.8	.9	3.8
Other Gases	281,457	281,018	0	NM	.8	.8	.0
Hydroelectric	860,020	1,344,161	457,732	-6.8	2.5	3.9	1.3
Other Renewables	148,148	168,518	228,848	5.0	.4	.5	.6
Total Electric Industry	34,058,102	34,712,213	36,608,003	.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Utah				
Coal (2002 cents per million Btu)	132.6	114.4	97.5	-3.4
Average heat value (Btu per pound)	11,489	11,330	11,259	-2
Average sulfur Content(percent) .....	.5	.5	.5	1.6
Petroleum (2002 cents per million Btu)	601.0	599.8	556.4	-8
Average heat value (Btu per gallon)	139,596	139,821	140,364	.1
Average sulfur Content(percent) .....	.0	.0	.3	NM
Gas (2002 cents per million Btu).....	242.6	208.6	423.0	6.4
Average heat value (Btu per cubic foot).....	1,063	1,032	1,006	-6

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Utah				
Sulfur Dioxide				
Coal	33	34	51	5.0
Petroleum	*	*	*	13.0
Gas.....	*	*	0	NM
Other.....	0	0	0	NM
Total	33	34	51	5.0
Nitrogen Oxide				
Coal	99	73	76	-2.9
Petroleum	*	*	*	-7.0
Gas.....	7	6	1	-19.1
Other.....	0	0	*	NM
Total	105	79	77	-3.4
Carbon Dioxide				
Coal	33,832	34,381	36,181	.8
Petroleum	30	37	45	4.7
Gas.....	564	400	944	5.9
Other.....	0	0	3	NM
Total	34,426	34,818	37,173	.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Utah							
Retail Sales (thousand megawatthours)							
Residential.....	4,726	5,661	6,938	4.4	28.0	27.8	29.8
Commercial.....	5,020	6,469	8,463	6.0	29.8	31.8	36.4
Industrial	6,221	7,430	7,019	1.3	36.9	36.5	30.2
Other	900	815	846	-7	5.3	4.0	3.6
Total	16,867	20,376	23,267	3.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	361	401	471	3.0	36.0	37.0	37.6
Commercial.....	333	380	474	4.0	33.3	35.1	37.8
Industrial	262	266	269	.3	26.1	24.6	21.5
Other	45	36	40	-1.4	4.5	3.4	3.2
Total	1,001	1,084	1,255	2.5	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.63	7.08	6.79	-1.3	NA	NA	NA
Commercial.....	6.64	5.88	5.60	-1.9	NA	NA	NA
Industrial	4.21	3.58	3.84	-1.0	NA	NA	NA
Other	5.00	4.46	4.69	-7	NA	NA	NA
Total	5.93	5.32	5.39	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Utah						
Number of Entities.....	0	50	0	2	0	52
Number of Retail Customers.....	0	902,374	0	2,164	0	904,538
Retail Sales (thousand megawatthours).....	0	23,231	0	36	0	23,267
Percentage of Retail Sales.....	.00	99.84	.00	.16	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	0	1,252	0	2	0	1,255
Percentage of Revenue.....	.00	99.81	.00	.19	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	.00	5.39	.00	6.46	0	5.39

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Vermont		
NERC Region(s).....		NPCC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	994	50
Electric Utilities	261	45
Independent Power Producers & Combined Heat and Power	733	41
Net Generation (megawatthours).....	5,456,190	50
Electric Utilities	2,971,224	43
Independent Power Producers & Combined Heat and Power	2,484,966	39
Emissions (thousand short tons)		
Sulfur Dioxide.....	0	51
Nitrogen Oxide.....	0	51
Carbon Dioxide.....	17	51
Sulfur Dioxide/sq. mile.....	0	51
Nitrogen Oxide/sq. mile.....	0	49
Carbon Dioxide/sq. mile.....	2	51
Utility and ESP Retail Electricity Sales (megawatthours).....	5,629,263	50
Utility Retail Electricity Sales (megawatthours)	5,629,263	49
Direct Use (megawatthours).....	-51,975	45
Average Retail Price (cents/kWh).....	10.87	5

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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	Hydro	U S Gen New England Inc	49
4. Wilder.....	Hydro	U S Gen New England Inc	41
5. Harriman	Hydro	U S Gen New England Inc	41
6. Berlin 5	Petroleum	Green Mountain Power Corp	36
7. Sheldon Springs Hydro	Hydro	Missisquoi Associates	24
8. Ryegate Power Station	Other	Ryegate Associates	20
9. Burlington GT.....	Petroleum	Burlington City of	20
10. Vernon	Hydro	U S Gen New England Inc	19

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Vermont					
A. Central Vermont Pub Serv Corp.....	2,186,344	915,031	858,537	407,335	5,441
B. Green Mountain Power Corp	1,948,148	553,294	723,641	661,480	9,733
C. City of Burlington.....	340,502	91,615	185,343	60,498	3,046
D. Citizens Communications Co.....	302,182	115,456	73,288	103,514	9,924
E. Vermont Marble Pwr Div of OMYA.....	217,349	6,076	3,338	207,837	98
Total	4,994,525	1,681,472	1,844,147	1,440,664	28,242
Percentage of Utility Sales.....	89	82	95	91	63

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Vermont							
Petroleum	120	119	107	-1.3	10.3	10.2	10.7
Nuclear	496	496	0	NM	42.6	42.5	.0
Hydroelectric	430	423	102	-14.8	36.9	36.3	10.3
Other Renewables	47	56	53	1.2	4.1	4.8	5.3
Total Electric Utilities	1,094	1,094	261	-14.7	93.9	93.8	26.3
Nuclear	0	0	506	NM	.0	.0	50.9
Hydroelectric	47	48	203	17.6	4.1	4.1	20.4
Other Renewables	24	24	24	-1	2.0	2.0	2.4
Total IPP's & Combined Heat and Power	71	72	733	29.6	6.1	6.2	73.7
Petroleum	120	119	107	-1.3	10.3	10.2	10.7
Nuclear	496	496	506	.2	42.6	42.5	50.9
Hydroelectric	477	472	305	-4.9	41.0	40.4	30.7
Other Renewables	71	80	76	.8	6.1	6.9	7.7
Total Electric Industry	1,165	1,167	994	-1.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Vermont							
Petroleum	4,805	9,816	9,406	7.7	0.1	0.2	0.2
Natural Gas	20,558	93	3,275	-18.5	.4	.0	.1
Nuclear	3,372,148	4,266,866	2,367,209	-3.9	72.6	75.1	43.4
Hydroelectric	838,619	896,312	404,227	-7.8	18.1	15.8	7.4
Other Renewables	64,407	150,345	187,107	12.6	1.4	2.6	3.4
Total Electric Utilities	4,300,537	5,323,432	2,971,224	-4.0	92.6	93.7	54.5
Petroleum	224	1,390	0	NM	.0	.0	.0
Nuclear	0	0	1,595,407	NM	.0	.0	29.2
Hydroelectric	142,667	171,129	710,695	19.5	3.1	3.0	13.0
Other Renewables	200,337	184,586	178,864	-1.3	4.3	3.2	3.3
Total IPP's & Combined Heat and Power	343,228	357,106	2,484,966	24.6	7.4	6.3	45.5
Petroleum	5,029	11,206	9,406	7.2	.1	.2	.2
Natural Gas	20,558	93	3,275	-18.5	.4	.0	.1
Nuclear	3,372,148	4,266,866	3,962,616	1.8	72.6	75.1	72.6
Hydroelectric	981,286	1,067,441	1,114,922	1.4	21.1	18.8	20.4
Other Renewables	264,744	334,931	365,971	3.7	5.7	5.9	6.7
Total Electric Industry	4,643,765	5,680,538	5,456,190	1.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Vermont				
Petroleum (2002 cents per million Btu)	540.8	466.1	0.0	NM
Average heat value (Btu per gallon).....	134,183	136,720	137,760	0.3
Gas (2002 cents per million Btu).....	224.8	320.8	383.7	6.1
Average heat value (Btu per cubic foot).....	998	1,012	1,018	.2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Vermont				
Sulfur Dioxide				
Petroleum	0	0	0	NM
Other.....	*	0	*	0.0
Total	*	*	*	-2.0
Gas.....	*	*	0	NM
Other.....	*	*	*	3.0
Total	*	*	*	1.7
Nitrogen Oxide				
Petroleum	8	16	15	6.9
Gas.....	16	2	2	-19.7
Total	24	18	17	-3.7

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Vermont							
Retail Sales (thousand megawatthours)							
Residential.....	1,971	1,992	2,047	0.4	39.3	37.5	36.4
Commercial.....	1,570	1,675	1,946	2.4	31.3	31.5	34.6
Industrial.....	1,431	1,561	1,592	1.2	28.5	29.4	28.3
Other.....	44	84	45	.3	.9	1.6	.8
Total.....	5,016	5,312	5,629	1.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	216	234	262	2.1	42.8	43.4	42.7
Commercial.....	163	178	216	3.2	32.3	32.9	35.3
Industrial.....	120	119	126	.6	23.7	22.1	20.5
Other.....	7	8	9	3.1	1.3	1.5	1.4
Total.....	505	540	612	2.2	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.96	11.77	12.78	1.7	NA	NA	NA
Commercial.....	10.37	10.61	11.10	.8	NA	NA	NA
Industrial.....	8.35	7.65	7.90	-.6	NA	NA	NA
Other.....	15.04	9.82	19.26	2.8	NA	NA	NA
Total.....	10.07	10.16	10.87	.8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Vermont						
Number of Entities.....	5	16	0	2	0	23
Number of Retail Customers.....	235,844	72,833	0	25,731	0	334,408
Retail Sales (thousand megawatthours).....	4,359	1,064	0	207	0	5,629
Percentage of Retail Sales.....	77.43	18.89	.00	3.68	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	474	110	0	28	0	612
Percentage of Revenue.....	77.41	17.98	.00	4.62	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	10.87	10.34	.00	13.63	0	10.87

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Virginia		
NERC Region(s).....		ECAR/SERC/MAAC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	20,205	17
Electric Utilities	15,818	14
Independent Power Producers & Combined Heat and Power	4,387	17
Net Generation (megawatthours).....	75,005,651	21
Electric Utilities	62,880,125	17
Independent Power Producers & Combined Heat and Power	12,125,526	20
Emissions (thousand short tons)		
Sulfur Dioxide.....	251	15
Nitrogen Oxide.....	103	17
Carbon Dioxide.....	46,487	22
Sulfur Dioxide/sq. mile.....	6	18
Nitrogen Oxide/sq. mile.....	3	20
Carbon Dioxide/sq. mile.....	1,174	24
Utility and ESP Retail Electricity Sales (megawatthours).....	100,540,736	12
Utility Retail Electricity Sales (megawatthours)	100,305,309	12
ESP Retail Electricity Sales (megawatthours).....	235,427	17
Direct Use (megawatthours).....	1,862,173	20
Average Retail Price (cents/kWh).....	6.23	30

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Virginia			
1. Bath County.....	Hydro	Virginia Electric & Power Co	2,400
2. North Anna	Nuclear	Virginia Electric & Power Co	1,843
3. Chesterfield	Petroleum, Gas, Coal	Virginia Electric & Power Co	1,631
4. Surry.....	Nuclear	Virginia Electric & Power Co	1,625
5. Possum Point	Petroleum, Coal	Virginia Electric & Power Co	1,186
6. Yorktown	Gas, Coal, Petroleum	Virginia Electric & Power Co	1,144
7. Clover.....	Petroleum, Coal	Virginia Electric & Power Co	882
8. Doswell Combined Cycl	Petroleum, Gas	Doswell Ltd Partnership	820
9. Chesapeake.....	Petroleum, Coal	Virginia Electric & Power Co	739
10. Clinch River	Petroleum, Coal	Appalachian Power Co	690

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Virginia					
A. Virginia Electric & Power Co.....	67,616,714	25,526,415	23,497,176	9,211,471	9,381,652
B. Appalachian Power Company	15,507,106	6,061,620	3,043,817	5,667,007	734,662
C. The Potomac Edison Company	2,674,073	1,075,661	565,932	1,028,331	4,149
D. Northern Virginia Elec Coop.....	2,533,321	1,575,816	653,549	300,992	2,964
E. Rappahannock Electric Coop.....	2,253,515	1,152,634	101,685	993,406	5,790
Total	90,584,729	35,392,146	27,862,159	17,201,207	10,129,217
Percentage of Utility Sales.....	90	88	93	88	95

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Virginia							
Coal	4,217	5,099	4,789	1.4	24.8	27.2	23.7
Petroleum	1,204	2,025	1,917	5.3	7.1	10.8	9.5
Natural Gas	593	545	1,244	8.6	3.5	2.9	6.2
Dual Fired	1,582	1,146	1,019	-4.8	9.3	6.1	5.0
Nuclear	3,349	3,392	3,467	.4	19.7	18.1	17.2
Hydroelectric	3,109	3,085	3,383	.9	18.3	16.5	16.7
Other Renewables	*	*	0	NM	.0	.0	.0
Total Electric Utilities	14,054	15,291	15,818	1.3	82.5	81.6	78.3
Coal	895	1,150	1,328	4.5	5.3	6.1	6.6
Petroleum	5	8	358	61.2	.0	.0	1.8
Natural Gas	79	99	434	20.9	.5	.5	2.1
Dual Fired	1,475	1,547	1,663	1.3	8.7	8.3	8.2
Hydroelectric	22	21	20	-1.2	.1	.1	.1
Other Renewables	508	614	584	1.5	3.0	3.3	2.9
Total IPP's & Combined Heat and Power	2,983	3,439	4,387	4.4	17.5	18.4	21.7
Coal	5,112	6,249	6,117	2.0	30.0	33.4	30.3
Petroleum	1,209	2,034	2,275	7.3	7.1	10.9	11.3
Natural Gas	672	644	1,678	10.7	3.9	3.4	8.3
Dual Fired	3,057	2,693	2,682	-1.4	17.9	14.4	13.3
Nuclear	3,349	3,392	3,467	.4	19.7	18.1	17.2
Hydroelectric	3,131	3,106	3,402	.9	18.4	16.6	16.8
Other Renewables	508	614	584	1.5	3.0	3.3	2.9
Total Electric Industry	17,037	18,731	20,205	1.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Virginia							
Coal	24,722,481	29,676,411	31,099,307	2.6	40.4	43.3	41.5
Petroleum	2,157,896	857,789	3,454,714	5.4	3.5	1.3	4.6
Natural Gas	2,139,635	1,291,954	2,128,402	-1	3.5	1.9	2.8
Nuclear	22,688,763	27,084,059	27,346,163	2.1	37.0	39.5	36.5
Hydroelectric	473,123	75,778	-1,148,461	NM	.8	.1	-1.5
Other Renewables	8	0	0	NM	.0	.0	.0
Total Electric Utilities	52,181,906	58,985,991	62,880,125	2.1	85.2	86.1	83.8
Coal	4,687,521	4,483,521	6,983,074	4.5	7.7	6.5	9.3
Petroleum	342,913	1,912,253	337,890	-2	.6	2.8	.5
Natural Gas	2,238,431	588,096	2,258,525	.1	3.7	.9	3.0
Other Gases	0	67	0	NM	.0	.0	.0
Hydroelectric	66,095	80,707	27,842	-9.2	.1	.1	.0
Other Renewables	1,726,645	2,464,699	2,518,195	4.3	2.8	3.6	3.4
Total IPP's & Combined Heat and Power	9,061,605	9,529,343	12,125,526	3.3	14.8	13.9	16.2
Coal	29,410,002	34,159,932	38,082,381	2.9	48.0	49.9	50.8
Petroleum	2,500,809	2,770,042	3,792,604	4.7	4.1	4.0	5.1
Natural Gas	4,378,066	1,880,050	4,386,927	.0	7.1	2.7	5.8
Other Gases	0	67	0	NM	.0	.0	.0
Nuclear	22,688,763	27,084,059	27,346,163	2.1	37.0	39.5	36.5
Hydroelectric	539,218	156,485	-1,120,619	NM	.9	.2	-1.5
Other Renewables	1,726,653	2,464,699	2,518,195	4.3	2.8	3.6	3.4
Total Electric Industry	61,243,511	68,515,334	75,005,651	2.3	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Virginia				
Coal (2002 cents per million Btu)	163.4	143.2	169.2	0.4
Average heat value (Btu per pound)	12,817	12,554	12,757	*
Average sulfur Content(percent)	1.0	1.0	1.2	1.7
Petroleum (2002 cents per million Btu)	237.1	289.7	380.3	5.4
Average heat value (Btu per gallon)	150,319	148,219	148,645	-1
Average sulfur Content(percent)	1.0	1.1	1.0	.0
Gas (2002 cents per million Btu)	310.5	281.6	413.4	3.2
Average heat value (Btu per cubic foot)	1,038	1,069	1,019	-2

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Virginia				
Sulfur Dioxide				
Coal	207	232	230	1.2
Petroleum	12	11	19	5.3
Gas.....*	*	0	0	NM
Other.....	3	3	3	-5
Total	221	246	251	1.4
Nitrogen Oxide				
Coal	97	122	95	-2
Petroleum	2	2	3	3.3
Gas.....	3	2	2	-4.8
Other.....	3	3	3	.9
Total	105	129	103	-2
Carbon Dioxide				
Coal	30,126	34,840	40,762	3.4
Petroleum	2,093	1,901	3,121	4.5
Gas.....	2,341	1,055	2,367	.1
Other.....	155	183	237	4.9
Total	34,715	37,978	46,487	3.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Virginia							
Retail Sales (thousand megawatthours)							
Residential.....	32,472	33,923	40,389	2.4	39.9	38.8	40.2
Commercial.....	22,727	24,905	29,993	3.1	27.9	28.5	29.8
Industrial	17,390	19,249	19,489	1.3	21.4	22.0	19.4
Other	8,783	9,342	10,669	2.2	10.8	10.7	10.6
Total	81,372	87,420	100,541	2.4	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	2,739	2,701	3,146	1.5	48.5	49.0	50.2
Commercial.....	1,554	1,528	1,761	1.4	27.5	27.7	28.1
Industrial	812	792	805	-1	14.4	14.4	12.9
Other	544	494	549	.1	9.6	9.0	8.8
Total	5,650	5,514	6,262	1.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.43	7.96	7.79	-9	NA	NA	NA
Commercial.....	6.84	6.13	5.87	-1.7	NA	NA	NA
Industrial	4.67	4.11	4.13	-1.3	NA	NA	NA
Other	6.20	5.29	5.15	-2.0	NA	NA	NA
Total	6.94	6.31	6.23	-1.2	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Virginia						
Number of Entities	1	24	0	10	2	37
Number of Retail Customers	489,192	2,397,099	0	351,884	22,824	3,260,999
Retail Sales (thousand megawatthours).....	15,507	77,199	0	7,599	235	100,541
Percentage of Retail Sales.....	15.42	76.78	.00	7.56	.23	100.00
Revenue from Retail Sales (million 2002 dollars)	689	4,918	0	645	10	6,262
Percentage of Revenue.....	11.00	78.54	.00	10.29	.17	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.44	6.37	.00	8.48	0	6.23

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Washington		
NERC Region(s).....		WSCC
Primary Energy Source		Hydro
Net Summer Capability (megawatts).....	27,112	10
Electric Utilities	24,141	6
Independent Power Producers & Combined Heat and Power	2,971	25
Net Generation (megawatthours).....	102,765,048	13
Electric Utilities	88,568,483	11
Independent Power Producers & Combined Heat and Power	14,196,565	17
Emissions (thousand short tons)		
Sulfur Dioxide	21	42
Nitrogen Oxide	21	39
Carbon Dioxide	12,912	39
Sulfur Dioxide/sq. mile.....	0	44
Nitrogen Oxide/sq. mile.....	0	44
Carbon Dioxide/sq. mile.....	194	45
Utility and ESP Retail Electricity Sales (megawatthours).....	76,491,883	18
Utility Retail Electricity Sales (megawatthours)	75,403,856	18
ESP Retail Electricity Sales (megawatthours).....	1,088,027	13
Direct Use (megawatthours).....	-1,894,139	51
Average Retail Price (cents/kWh).....	5.80	38

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Washington			
1. Grand Coulee	Hydro	U S Bureau of Reclamation	7,079
2. Chief Joseph.....	Hydro	USCE-North Pacific Division	2,337
3. TransAlta Centralia G.....	Petroleum, Gas, Coal	TransAlta Centralia Gen LLC	1,661
4. Rocky Reach.....	Hydro	PUD No 1 of Chelan County	1,279
5. Columbia Generating S.....	Nuclear	Energy Northwest	1,108
6. Boundary	Hydro	Seattle City of	1,050
7. Wanapum	Hydro	PUD No 2 of Grant County	969
8. Little Goose	Hydro	USCE-North Pacific Division	932
9. Lower Monumental	Hydro	USCE-North Pacific Division	932
10. Lower Granite	Hydro	USCE-North Pacific Division	932

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Washington					
A. Puget Sound Energy, Inc.....	19,253,824	9,801,319	7,974,498	1,395,544	82,463
B. Seattle City Light.....	8,923,130	3,073,673	3,845,912	1,197,613	805,932
C. PUD No 1 of Snohomish County	6,193,672	3,233,187	2,103,795	832,995	23,695
D. Avista Corporation.....	4,997,514	2,192,350	1,955,438	819,602	30,124
E. Tacoma Power.....	4,535,202	1,792,236	321,567	1,791,618	629,781
Total	43,903,342	20,092,765	16,201,210	6,037,372	1,571,995
Percentage of Utility Sales.....	57	63	67	36	49

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Washington							
Coal	1,390	1,390	0	NM	5.6	5.3	0.0
Petroleum	173	62	40	-15.2	.7	.2	.1
Natural Gas	0	248	303	NM	.0	.9	1.1
Dual Fired	590	590	843	4.1	2.4	2.2	3.1
Nuclear	1,100	1,170	1,108	.1	4.4	4.5	4.1
Hydroelectric	20,960	21,731	21,706	.4	83.9	82.8	80.1
Other Renewables	46	83	142	13.3	.2	.3	.5
Total Electric Utilities	24,259	25,273	24,141	-.1	97.1	96.3	89.0
Coal	2	2	1,407	108.9	.0	.0	5.2
Natural Gas	335	480	937	12.1	1.3	1.8	3.5
Dual Fired	146	256	177	2.1	.6	1.0	.7
Hydroelectric	90	100	72	-2.4	.4	.4	.3
Other Renewables	161	142	378	9.9	.6	.5	1.4
Total IPP's & Combined Heat and Power	734	979	2,971	16.8	2.9	3.7	11.0
Coal	1,392	1,392	1,407	.1	5.6	5.3	5.2
Petroleum	173	62	40	-15.2	.7	.2	.1
Natural Gas	335	728	1,240	15.6	1.3	2.8	4.6
Dual Fired	736	846	1,020	3.7	2.9	3.2	3.8
Nuclear	1,100	1,170	1,108	.1	4.4	4.5	4.1
Hydroelectric	21,049	21,830	21,778	.4	84.2	83.2	80.3
Other Renewables	207	225	519	10.7	.8	.9	1.9
Total Electric Industry	24,993	26,253	27,112	.9	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Washington							
Coal	8,803,840	6,965,990	0	NM	10.0	5.7	0.0
Petroleum	32,118	16,297	6,172	-16.7	.0	.0	.0
Natural Gas	422,218	228,754	1,084,370	11.0	.5	.2	1.1
Nuclear	7,134,966	6,244,135	9,048,475	2.7	8.1	5.1	8.8
Hydroelectric	66,982,839	103,644,592	77,828,754	1.7	76.1	84.9	75.7
Other Renewables	395,167	353,256	600,712	4.8	.4	.3	.6
Total Electric Utilities	83,771,148	117,453,024	88,568,483	.6	95.2	96.2	86.2
Coal	31,239	24,530	8,660,805	86.8	.0	.0	8.4
Petroleum	27,316	212,292	67,130	10.5	.0	.2	.1
Natural Gas	2,775,728	2,732,907	3,634,941	3.0	3.2	2.2	3.5
Other Gases	222,852	290,495	312,638	3.8	.3	.2	.3
Hydroelectric	329,544	525,959	333,378	.1	.4	.4	.3
Other Renewables	837,943	886,961	1,187,673	4.0	1.0	.7	1.2
Other	7	0	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	4,224,628	4,673,143	14,196,565	14.4	4.8	3.8	13.8
Coal	8,835,079	6,990,520	8,660,805	-2	10.0	5.7	8.4
Petroleum	59,434	228,589	73,302	2.4	.1	.2	.1
Natural Gas	3,197,946	2,961,661	4,719,311	4.4	3.6	2.4	4.6
Other Gases	222,852	290,495	312,638	3.8	.3	.2	.3
Nuclear	7,134,966	6,244,135	9,048,475	2.7	8.1	5.1	8.8
Hydroelectric	67,312,383	104,170,551	78,162,132	1.7	76.5	85.3	76.1
Other Renewables	1,233,110	1,240,217	1,788,385	4.2	1.4	1.0	1.7
Other	7	0	0	NM	.0	.0	.0
Total Electric Industry	87,995,776	122,126,167	102,765,048	1.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Washington				
Coal (2002 cents per million Btu)	151.6	167.1	146.1	-0.4
Average heat value (Btu per pound)	8,125	8,043	8,052	-.1
Average sulfur Content(percent) .....	.7	.6	1.0	4.0
Petroleum (2002 cents per million Btu)	522.7	513.0	241.1	-8.2
Average heat value (Btu per gallon)	139,936	139,944	146,121	.5
Average sulfur Content(percent) .....	.0	.0	.3	NM
Gas (2002 cents per million Btu)	419.2	4644.9	354.2	-1.8
Average heat value (Btu per cubic foot)	1,050	1,048	1,026	-.3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Washington				
Sulfur Dioxide				
Coal	71	65	19	-13.4
Petroleum	*	1	*	8.9
Gas.....	*	*	*	2.8
Other.....	2	2	2	-2.6
Total	73	68	21	-12.7
Nitrogen Oxide				
Coal	43	16	16	-10.7
Petroleum	*	*	*	.2
Gas.....	2	3	4	10.8
Other.....	1	1	1	-3
Total	46	21	21	-8.2
Carbon Dioxide				
Coal	9,920	8,323	10,371	.5
Petroleum	69	203	74	.8
Gas.....	1,785	1,877	2,433	3.5
Other.....	39	36	34	-1.5
Total	11,812	10,439	12,912	1.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Washington							
Retail Sales (thousand megawatthours)							
Residential.....	30,932	31,749	32,066	0.4	34.2	35.9	41.9
Commercial.....	19,531	21,583	24,310	2.5	21.6	24.4	31.8
Industrial	36,563	31,348	16,880	-8.2	40.4	35.5	22.1
Other	3,447	3,627	3,237	-.7	3.8	4.1	4.2
Total	90,473	88,306	76,492	-1.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,584	1,616	2,018	2.7	43.1	44.1	45.5
Commercial.....	979	1,063	1,485	4.7	26.6	29.0	33.5
Industrial	976	833	770	-2.6	26.5	22.8	17.4
Other	136	151	160	1.8	3.7	4.1	3.6
Total	3,674	3,663	4,433	2.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	5.12	5.09	6.29	2.3	NA	NA	NA
Commercial.....	5.01	4.93	6.11	2.2	NA	NA	NA
Industrial	2.67	2.66	4.56	6.1	NA	NA	NA
Other	3.94	4.17	4.94	2.6	NA	NA	NA
Total	4.06	4.15	5.80	4.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Washington						
Number of Entities.....	1	49	0	13	3	66
Number of Retail Customers.....	950,043	1,780,677	0	107,196	6	2,837,922
Retail Sales (thousand megawatthours).....	19,254	53,531	0	2,619	1,088	76,492
Percentage of Retail Sales.....	25.17	69.98	.00	3.42	1.42	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,260	2,915	0	148	110	4,433
Percentage of Revenue.....	28.43	65.76	.00	3.34	2.47	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.55	5.45	.00	5.65	0	5.80

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
West Virginia		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	16,180	23
Electric Utilities	10,166	24
Independent Power Producers & Combined Heat and Power	6,014	14
Net Generation (megawatthours).....	94,761,752	17
Electric Utilities	63,341,620	16
Independent Power Producers & Combined Heat and Power	31,420,132	10
Emissions (thousand short tons)		
Sulfur Dioxide.....	523	6
Nitrogen Oxide.....	243	5
Carbon Dioxide.....	95,170	8
Sulfur Dioxide/sq. mile.....	22	4
Nitrogen Oxide/sq. mile.....	10	3
Carbon Dioxide/sq. mile.....	3,951	2
Utility and ESP Retail Electricity Sales (megawatthours).....	28,463,122	35
Utility Retail Electricity Sales (megawatthours)	28,463,122	35
Direct Use (megawatthours).....	-53,279	46
Average Retail Price (cents/kWh).....	5.11	49

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
West Virginia			
1. John E Amos	Petroleum, Coal	Appalachian Power Co	2,900
2. Harrison Power Statio	Petroleum, Gas, Coal	Allegheny Energy Supply Co LLC	1,933
3. Mitchell.....	Petroleum, Coal	Ohio Power Co	1,600
4. Mt Storm.....	Petroleum, Coal	Virginia Electric & Power Co	1,581
5. Mountaineer	Petroleum, Coal	Appalachian Power Co	1,300
6. Pleasants Power Stati.....	Petroleum, Gas, Coal	Allegheny Energy Supply Co LLC	1,278
7. Fort Martin Power Sta.....	Petroleum, Coal	Allegheny Energy Supply Co LLC	1,107
8. Philip Sporn.....	Petroleum, Coal	Central Operating Co	1,020
9. Kammer.....	Petroleum, Coal	Ohio Power Co	600
10. Ceredo Generating Sta.....	Gas	Orion Power Operating Services	457

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
West Virginia					
A. Appalachian Power Company	13,436,666	5,376,575	3,580,274	4,444,482	35,335
B. Monongahela Power Company	10,264,625	3,140,813	2,351,449	4,748,799	23,564
C. The Potomac Edison Company	2,755,273	1,348,265	653,300	749,232	4,476
D. Wheeling Power Company.....	1,747,850	412,183	384,006	945,546	6,115
E. Harrison Rural Elec Assn, Inc.....	58,830	49,060	4,330	2,990	2,450
Total	28,263,244	10,326,896	6,973,359	10,891,049	71,940
Percentage of Utility Sales.....	99	99	99	100	92

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
West Virginia							
Coal	14,328	14,381	10,108	-3.8	94.8	95.6	62.5
Petroleum	12	12	12	.0	.1	.1	.1
Hydroelectric	108	98	46	-9.1	.7	.6	.3
Total Electric Utilities	14,448	14,491	10,166	-3.8	95.6	96.3	62.8
Coal	495	384	4,608	28.1	3.3	2.6	28.5
Natural Gas	0	0	764	NM	.0	.0	4.7
Other Gases	25	25	95	16.0	.2	.2	.6
Dual Fired	11	11	292	44.2	.1	.1	1.8
Hydroelectric	140	140	189	3.4	.9	.9	1.2
Other Renewables	0	0	66	NM	.0	.0	.4
Total IPP's & Combined Heat and Power	671	560	6,014	27.6	4.4	3.7	37.2
Coal	14,823	14,765	14,716	-.1	98.0	98.1	91.0
Petroleum	12	12	12	.0	.1	.1	.1
Natural Gas	0	0	764	NM	.0	.0	4.7
Other Gases	25	25	95	16.0	.2	.2	.6
Dual Fired	11	11	292	44.2	.1	.1	1.8
Hydroelectric	247	238	235	-6	1.6	1.6	1.5
Other Renewables	0	0	66	NM	.0	.0	.4
Total Electric Industry	15,118	15,051	16,180	.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
West Virginia							
Coal	70,491,516	87,714,945	62,801,799	-1.3	94.3	95.8	66.3
Petroleum	210,975	170,969	278,679	3.1	.3	.2	.3
Natural Gas	13,461	21,355	3,396	-14.2	.0	.0	.0
Hydroelectric	362,117	377,192	235,958	-4.6	.5	.4	.2
Other Renewables	0	0	21,788	NM	.0	.0	.0
Total Electric Utilities	71,078,069	88,284,461	63,341,620	-1.3	95.1	96.5	66.8
Coal	2,477,147	2,130,584	30,149,517	32.0	3.3	2.3	31.8
Petroleum	25,959	18,629	18,908	-3.5	.0	.0	.0
Natural Gas	144,782	195,391	237,744	5.7	.2	.2	.3
Other Gases	271,186	138,004	174,598	-4.8	.4	.2	.2
Hydroelectric	751,984	761,577	829,778	1.1	1.0	.8	.9
Other Renewables	0	0	9,586	NM	.0	.0	.0
Other	36	231	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	3,671,094	3,244,416	31,420,132	26.9	4.9	3.5	33.2
Coal	72,968,663	89,845,529	92,951,316	2.7	97.6	98.2	98.1
Petroleum	236,934	189,598	297,587	2.6	.3	.2	.3
Natural Gas	158,243	216,746	241,140	4.8	.2	.2	.3
Other Gases	271,186	138,004	174,598	-4.8	.4	.2	.2
Hydroelectric	1,114,101	1,138,769	1,065,736	-.5	1.5	1.2	1.1
Other Renewables	0	0	31,374	NM	.0	.0	.0
Other	36	231	0	NM	.0	.0	.0
Total Electric Industry	74,749,163	91,528,877	94,761,752	2.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
West Virginia				
Coal (2002 cents per million Btu)	158.1	127.2	120.6	-3.0
Average heat value (Btu per pound).....	12,489	12,398	12,117	-3
Average sulfur Content(percent)	1.9	2.0	1.7	-1.4
Petroleum (2002 cents per million Btu)	515.0	476.9	543.1	.6
Average heat value (Btu per gallon).....	139,231	138,884	139,276	.0
Average sulfur Content(percent) .....	.2	.0	.2	2.0
Gas (2002 cents per million Btu).....	485.5	344.4	385.4	-2.5
Average heat value (Btu per cubic foot).....	1,000	1,000	1,036	.4

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
West Virginia				
Sulfur Dioxide				
Coal	1,028	673	522	-7.3
Petroleum	*	1	1	5.5
Gas.....	*	*	*	10.7
Total	1,028	673	523	-7.2
Nitrogen Oxide				
Coal	285	339	233	-2.2
Petroleum	*	*	*	-5.5
Gas.....	9	5	9	.9
Other.....	0	0	0	NM
Total	294	344	243	-2.1
Carbon Dioxide				
Coal	72,987	89,358	94,544	2.9
Petroleum	190	151	187	-2
Gas.....	300	220	440	4.3
Total	73,477	89,729	95,170	2.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
West Virginia							
Retail Sales (thousand megawatthours)							
Residential.....	8,682	9,027	10,444	2.1	35.5	34.4	36.7
Commercial.....	5,480	5,944	7,039	2.8	22.4	22.6	24.7
Industrial.....	10,187	11,180	10,902	.8	41.7	42.6	38.3
Other.....	92	96	78	-1.8	.4	.4	.3
Total.....	24,442	26,247	28,463	1.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	609	580	651	.7	42.9	42.9	44.8
Commercial.....	353	338	381	.8	24.8	25.0	26.2
Industrial.....	450	426	415	-.9	31.6	31.5	28.5
Other.....	9	9	8	-2.1	.7	.6	.5
Total.....	1,421	1,354	1,455	.3	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.02	6.43	6.23	-1.3	NA	NA	NA
Commercial.....	6.44	5.69	5.41	-1.9	NA	NA	NA
Industrial.....	4.41	3.81	3.81	-1.6	NA	NA	NA
Other.....	10.27	8.95	10.01	-.3	NA	NA	NA
Total.....	5.82	5.16	5.11	-1.4	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
West Virginia						
Number of Entities.....	8	7	0	1	0	16
Number of Retail Customers.....	48,879	913,870	0	5,916	0	968,665
Retail Sales (thousand megawatthours).....	1,842	26,563	0	59	0	28,463
Percentage of Retail Sales.....	6.47	93.32	.00	.21	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	90	1,359	0	5	0	1,455
Percentage of Revenue.....	6.20	93.44	.00	.36	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.89	5.12	.00	9.02	0	5.11

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Wisconsin		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	14,237	24
Electric Utilities	12,511	19
Independent Power Producers & Combined Heat and Power	1,726	32
Net Generation (megawatthours).....	58,431,438	24
Electric Utilities	54,773,666	19
Independent Power Producers & Combined Heat and Power	3,657,772	36
Emissions (thousand short tons)		
Sulfur Dioxide.....	219	18
Nitrogen Oxide.....	98	20
Carbon Dioxide.....	49,065	21
Sulfur Dioxide/sq. mile.....	4	24
Nitrogen Oxide/sq. mile.....	2	25
Carbon Dioxide/sq. mile.....	903	27
Utility and ESP Retail Electricity Sales (megawatthours).....	66,999,296	21
Utility Retail Electricity Sales (megawatthours)	66,999,296	21
Direct Use (megawatthours).....	2,641,816	17
Average Retail Price (cents/kWh).....	6.28	26

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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	1,098
4. Point Beach.....	Petroleum, Nuclear	Wisconsin Electric Power Co	1,027
5. Edgewater.....	Petroleum, Other, Coal	Wisconsin Power & Light Co	836
6. Weston	Petroleum, Gas, Coal	Wisconsin Public Service Corp	545
7. Kewaunee.....	Nuclear	Wisconsin Public Service Corp	498
8. RockGen Energy Center.....	Petroleum, Gas	RockGen Energy LLC	462
9. Paris.....	Petroleum, Gas	Wisconsin Electric Power Co	400
10. Pulliam.....	Gas, Coal	Wisconsin Public Service Corp	389

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Wisconsin					
A. Wisconsin Electric Power Co	25,012,143	7,983,219	8,327,117	8,534,675	167,132
B. Wisconsin Public Service Corp.....	10,292,027	2,962,175	3,379,562	3,915,424	34,866
C. Wisconsin Power & Light Co.....	9,896,116	3,361,423	2,107,342	4,364,712	62,639
D. Northern States Power Company.....	5,623,050	1,818,662	1,025,215	2,741,386	37,787
E. Madison Gas & Electric Company	3,104,384	839,005	1,640,190	296,220	328,969
Total	53,927,720	16,964,484	16,479,426	19,852,417	631,393
Percentage of Utility Sales.....	80	79	86	78	85

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Wisconsin							
Coal	7,276	7,389	7,186	-0.1	63.4	58.8	50.5
Petroleum	797	852	985	2.4	6.9	6.8	6.9
Natural Gas	104	71	340	14.1	.9	.6	2.4
Dual Fired	721	1,580	1,998	12.0	6.3	12.6	14.0
Nuclear	1,496	1,432	1,510	.1	13.0	11.4	10.6
Hydroelectric	440	460	425	-4	3.8	3.7	3.0
Other Renewables	104	61	66	-4.8	.9	.5	.5
Total Electric Utilities	10,938	11,845	12,511	1.5	95.3	94.2	87.9
Coal	375	392	313	-2.0	3.3	3.1	2.2
Petroleum	8	3	3	-9.3	.1	.0	.0
Natural Gas	20	21	185	28.3	.2	.2	1.3
Dual Fired	15	189	951	58.3	.1	1.5	6.7
Hydroelectric	63	54	69	1.0	.6	.4	.5
Other Renewables	63	68	184	12.6	.5	.5	1.3
Other	0	0	21	NM	.0	.0	.1
Total IPP's & Combined Heat and Power	544	728	1,726	13.7	4.7	5.8	12.1
Coal	7,651	7,782	7,500	-2	66.6	61.9	52.7
Petroleum	805	855	989	2.3	7.0	6.8	6.9
Natural Gas	123	92	525	17.5	1.1	.7	3.7
Dual Fired	736	1,770	2,949	16.7	6.4	14.1	20.7
Nuclear	1,496	1,432	1,510	.1	13.0	11.4	10.6
Hydroelectric	504	513	494	-2	4.4	4.1	3.5
Other Renewables	167	129	250	4.6	1.5	1.0	1.8
Other	0	0	21	NM	.0	.0	.1
Total Electric Industry	11,481	12,573	14,237	2.4	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Wisconsin							
Coal	33,558,049	40,819,517	38,583,501	1.6	66.8	79.4	66.0
Petroleum	105,173	169,863	162,990	5.0	.2	.3	.3
Natural Gas	224,276	1,100,895	973,287	17.7	.4	2.1	1.7
Nuclear	11,464,574	3,915,871	12,448,813	.9	22.8	7.6	21.3
Hydroelectric	2,191,053	2,182,208	2,282,883	.5	4.4	4.2	3.9
Other Renewables	219,736	371,773	322,192	4.3	.4	.7	.6
Total Electric Utilities	47,762,861	48,560,127	54,773,666	1.5	95.1	94.4	93.7
Coal	992,897	1,156,968	1,223,983	2.4	2.0	2.3	2.1
Petroleum	230,382	240,887	259,687	1.3	.5	.5	.4
Natural Gas	187,401	323,459	1,103,027	21.8	.4	.6	1.9
Hydroelectric	295,533	301,086	232,134	-2.6	.6	.6	.4
Other Renewables	769,478	831,482	838,941	1.0	1.5	1.6	1.4
Total IPP's & Combined Heat and Power	2,475,691	2,853,882	3,657,772	4.4	4.9	5.6	6.3
Coal	34,550,946	41,976,485	39,807,484	1.6	68.8	81.6	68.1
Petroleum	335,555	410,750	422,677	2.6	.7	.8	.7
Natural Gas	411,677	1,424,354	2,076,314	19.7	.8	2.8	3.6
Nuclear	11,464,574	3,915,871	12,448,813	.9	22.8	7.6	21.3
Hydroelectric	2,486,586	2,483,294	2,515,017	.1	4.9	4.8	4.3
Other Renewables	989,214	1,203,255	1,161,133	1.8	2.0	2.3	2.0
Total Electric Industry	50,238,552	51,414,009	58,431,438	1.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Wisconsin				
Coal (2002 cents per million Btu)	134.9	112.0	112.2	-2.0
Average heat value (Btu per pound)	9,490	9,375	9,753	.3
Average sulfur Content(percent) .....	.5	.5	.4	-2.0
Petroleum (2002 cents per million Btu)	170.0	185.3	110.6	-4.7
Average heat value (Btu per gallon)	92,736	90,762	137,686	4.5
Average sulfur Content(percent)	5.3	5.7	5.2	-2
Gas (2002 cents per million Btu)	293.2	323.5	353.7	2.1
Average heat value (Btu per cubic foot)	1,012	1,008	983	-3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Wisconsin				
Sulfur Dioxide				
Coal	195	255	208	0.7
Petroleum	8	9	9	.8
Gas.....	0	0	0	NM
Other.....	7	3	2	-12.9
Total	211	267	219	.4
Nitrogen Oxide				
Coal	167	118	93	-6.3
Petroleum	1	1	1	.1
Gas.....	1	1	2	9.6
Other.....	2	3	2	-.2
Total	171	123	98	-6.0
Carbon Dioxide				
Coal	38,678	47,680	46,939	2.2
Petroleum	341	531	525	4.9
Gas.....	324	1,163	1,601	19.4
Other.....	1	*	0	NM
Total	39,344	49,375	49,065	2.5

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Wisconsin							
Retail Sales (thousand megawatthours)							
Residential.....	17,373	18,510	21,575	2.4	32.7	30.8	32.2
Commercial.....	13,710	15,730	19,144	3.8	25.8	26.2	28.6
Industrial	21,410	25,103	25,534	2.0	40.3	41.8	38.1
Other	662	751	746	1.3	1.3	1.3	1.1
Total	53,156	60,094	66,999	2.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,361	1,308	1,765	2.9	41.6	40.6	41.9
Commercial.....	908	905	1,253	3.6	27.8	28.1	29.8
Industrial	950	959	1,131	2.0	29.0	29.7	26.9
Other	51	52	60	1.8	1.6	1.6	1.4
Total	3,270	3,224	4,209	2.8	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.83	7.07	8.18	.5	NA	NA	NA
Commercial.....	6.62	5.75	6.54	-.1	NA	NA	NA
Industrial	4.44	3.82	4.43	*	NA	NA	NA
Other	7.78	6.96	8.08	.4	NA	NA	NA
Total	6.15	5.36	6.28	.2	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Wisconsin						
Number of Entities	8	90	0	20	0	118
Number of Retail Customers	580,174	1,932,973	0	200,835	0	2,713,982
Retail Sales (thousand megawatthours).....	15,152	49,023	0	2,825	0	66,999
Percentage of Retail Sales.....	22.61	73.17	.00	4.22	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	934	3,050	0	225	0	4,209
Percentage of Revenue.....	22.20	72.46	.00	5.34	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.17	6.22	.00	7.96	0	6.28

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Wyoming		
NERC Region(s).....		WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	6,348	36
Electric Utilities	6,122	29
Independent Power Producers & Combined Heat and Power	226	46
Net Generation (megawatthours).....	43,783,839	31
Electric Utilities	42,532,420	25
Independent Power Producers & Combined Heat and Power	1,251,419	44
Emissions (thousand short tons)		
Sulfur Dioxide	87	28
Nitrogen Oxide.....	89	23
Carbon Dioxide.....	49,117	20
Sulfur Dioxide/sq. mile.....	1	35
Nitrogen Oxide/sq. mile.....	1	36
Carbon Dioxide/sq. mile.....	506	35
Utility and ESP Retail Electricity Sales (megawatthours).....	12,874,060	40
Utility Retail Electricity Sales (megawatthours)	12,874,060	40
Direct Use (megawatthours).....	661,028	26
Average Retail Price (cents/kWh).....	5	50

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net 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. Neil Simpson II	Petroleum, Gas, Coal	Black Hills Corp	114
7. Fremont Canyon	Hydro	U S Bureau of Reclamation	67
8. Seminoe.....	Hydro	U S Bureau of Reclamation	52
9. Rock River I LLC	Other	SeaWest Windpower Inc	50
10. Foote Creek I	Other	Foote Creek I LLC	41

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Wyoming					
A. PacifiCorp.....	7,348,990	895,976	1,136,822	5,274,337	41,855
B. Powder River Energy Corp.....	1,768,690	164,410	684,675	918,685	920
C. Cheyenne Light Fuel & Power Co	920,334	216,888	327,785	371,718	3,943
D. High Plains Power, Inc.....	704,803	117,517	59,949	527,337	0
E. Lower Valley Energy Inc	534,277	299,728	221,829	12,139	581
Total	11,277,094	1,694,519	2,431,060	7,104,216	47,299
Percentage of Utility Sales.....	88	76	80	95	29

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Wyoming							
Coal	5,567	5,737	5,692	0.2	93.3	93.5	89.7
Petroleum	15	10	5	-11.9	.2	.2	.1
Natural Gas	0	0	119	NM	.0	.0	1.9
Hydroelectric	287	297	300	.5	4.8	4.8	4.7
Other Renewables	0	0	6	NM	.0	.0	.1
Total Electric Utilities	5,869	6,044	6,122	.5	98.3	98.5	96.4
Coal	28	28	30	.8	.5	.5	.5
Petroleum	0	0	4	NM	.0	.0	.1
Natural Gas	50	50	58	1.7	.8	.8	.9
Other Gases	3	3	0	NM	.1	.1	.0
Other Renewables	8	0	135	37.0	.1	.0	2.1
Other	11	11	0	NM	.2	.2	.0
Total IPP's & Combined Heat and Power	99	91	226	9.6	1.7	1.5	3.6
Coal	5,595	5,765	5,722	.2	93.7	94.0	90.1
Petroleum	15	10	8	-6.2	.2	.2	.1
Natural Gas	50	50	177	15.2	.8	.8	2.8
Other Gases	3	3	0	NM	.1	.1	.0
Hydroelectric	287	297	300	.5	4.8	4.8	4.7
Other Renewables	8	0	141	37.7	.1	.0	2.2
Other	11	11	0	NM	.2	.2	.0
Total Electric Industry	5,968	6,136	6,348	.7	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Wyoming							
Coal	39,301,199	39,315,335	41,685,278	0.7	96.4	94.9	95.2
Petroleum	56,970	58,765	38,686	-4.2	.1	.1	.1
Natural Gas	8,999	10,274	205,791	41.6	.0	.0	.5
Hydroelectric	787,427	1,380,713	583,615	-3.3	1.9	3.3	1.3
Other Renewables	0	0	19,050	NM	.0	.0	.0
Total Electric Utilities	40,154,595	40,765,087	42,532,420	.6	98.5	98.4	97.1
Coal	205,893	184,458	237,883	1.6	.5	.4	.5
Petroleum	9,411	4,716	1,418	-19.0	.0	.0	.0
Natural Gas	356,541	375,288	507,289	4.0	.9	.9	1.2
Other Gases	2,072	7,124	0	NM	.0	.0	.0
Other Renewables	0	0	428,280	NM	.0	.0	1.0
Other	42,843	72,889	76,549	6.7	.1	.2	.2
Total IPP's & Combined Heat and Power	616,760	644,476	1,251,419	8.2	1.5	1.6	2.9
Coal	39,507,092	39,499,793	41,923,161	.7	96.9	95.4	95.8
Petroleum	66,381	63,481	40,104	-5.4	.2	.2	.1
Natural Gas	365,540	385,562	713,080	7.7	.9	.9	1.6
Other Gases	2,072	7,124	0	NM	.0	.0	.0
Hydroelectric	787,427	1,380,713	583,615	-3.3	1.9	3.3	1.3
Other Renewables	0	0	447,330	NM	.0	.0	1.0
Other	42,843	72,889	76,549	6.7	.1	.2	.2
Total Electric Industry	40,771,355	41,409,563	43,783,839	.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Wyoming				
Coal (2002 cents per million Btu)	89.1	82.8	78.5	-1.4
Average heat value (Btu per pound)	8,779	8,787	8,802	*
Average sulfur Content(percent) .....	.5	.5	.5	-.5
Petroleum (2002 cents per million Btu)	527.3	531.4	553.0	.5
Average heat value (Btu per gallon)	139,060	138,823	142,302	.3
Average sulfur Content(percent) .....	.0	.0	.3	NM
Gas (2002 cents per million Btu)	367.6	900.2	255.2	-4.0
Average heat value (Btu per cubic foot)	1,044	1,041	944	-1.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Wyoming				
Sulfur Dioxide				
Coal	79	105	87	1.1
Petroleum	*	*	*	-22.3
Gas.....	0	0	0	NM
Other.....	*	*	0	NM
Total	79	105	87	1.1
Nitrogen Oxide				
Coal	172	102	89	-7.1
Petroleum	*	*	0	NM
Gas.....	1	1	1	3.6
Total	173	102	89	-7.1
Carbon Dioxide				
Coal	45,089	45,025	48,652	.8
Petroleum	56	52	37	-4.3
Gas.....	215	221	428	7.9
Total	45,360	45,298	49,117	.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Wyoming							
Retail Sales (thousand megawatthours)							
Residential.....	1,906	2,007	2,232	1.8	16.0	17.0	17.3
Commercial.....	2,493	2,394	3,027	2.2	21.0	20.3	23.5
Industrial	7,363	7,211	7,453	.1	61.9	61.2	57.9
Other	122	174	162	3.2	1.0	1.5	1.3
Total	11,885	11,786	12,874	.9	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	127	128	156	2.3	22.5	24.4	25.8
Commercial.....	140	130	173	2.4	24.9	24.7	28.7
Industrial	287	256	264	-9	51.0	48.8	43.9
Other	9	10	10	.7	1.6	2.0	1.6
Total	563	525	602	.8	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	6.64	6.40	6.97	.5	NA	NA	NA
Commercial.....	5.62	5.42	5.71	.2	NA	NA	NA
Industrial	3.90	3.56	3.55	-1.0	NA	NA	NA
Other	7.37	6.01	5.93	-2.4	NA	NA	NA
Total	4.73	4.45	4.68	-1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Wyoming						
Number of Entities.....	1	29	0	5	0	35
Number of Retail Customers.....	36,922	227,219	0	21,743	0	285,884
Retail Sales (thousand megawatthours).....	920	11,012	0	942	0	12,874
Percentage of Retail Sales.....	7.15	85.53	.00	7.32	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	72	482	0	48	0	602
Percentage of Revenue.....	11.94	80.06	.00	8.00	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.82	4.38	.00	5.12	0	4.68

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table 1. 2002 Summary Statistics

Item	Value	Highest	Lowest
United States			
Primary Energy Source.....	Coal		
Net Summer Capability (megawatts).....	905,301	Texas	District of Columbia
Electric Utilities.....	561,074	Florida	Rhode Island
Independent Power Producers & Combined Heat and Power.....	344,227	Texas	Nebraska
Net Generation (megawatthours).....	3,858,452,252	Texas	District of Columbia
Electric Utilities.....	2,549,457,170	Florida	Maine
Independent Power Producers & Combined Heat and Power.....	1,308,995,082	Texas	Nebraska
Emissions (thousand short tons)			
Sulfur Dioxide.....	10,940	Ohio	Vermont
Nitrogen Oxide.....	5,159	Ohio	Vermont
Carbon Dioxide.....	2,549,969	Texas	Vermont
Sulfur Dioxide/sq. mile.....	3	Ohio	Vermont
Nitrogen Oxide/sq. mile.....	1	Maryland	Alaska
Carbon Dioxide/sq. mile.....	721	District of Columbia	Vermont
Utility and Energy Service Providers (megawatthours).....	3,462,520,834	Texas	Alaska
Utility Retail Electricity Sales (megawatthours).....	3,290,401,013	Texas	Maine
Energy Service Providers Electricity Sales (megawatthours).....	172,119,821	California	Texas
Direct Use (megawatthours).....	171,472,756	Texas	Washington
Utility Average Retail Price (cents/kWh).....	7.21	Hawaii	Kentucky
Utility Average Retail Price (cents/kWh).....	7.21	Hawaii	Kentucky

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
United States			
1. Grand Coulee.....	Hydro	U S Bureau of Reclamation	7,079
2. W A Parish.....	Gas, Coal	CenterPoint Energy Houston Elec	3,766
3. Palo Verde.....	Nuclear	Arizona Public Service Co	3,733
4. Scherer.....	Petroleum, Coal	Georgia Power Co	3,430
5. Bowen.....	Petroleum, Coal	Georgia Power Co	3,294
6. Browns Ferry.....	Nuclear	Tennessee Valley Authority	3,291
7. Crystal River.....	Petroleum, Nuclear, Coal	Florida Power Corp	3,144
8. Gibson.....	Petroleum, Coal	PSI Energy Inc	3,131
9. Monroe.....	Petroleum, Coal	Detroit Edison Co	3,034
10. John E Amos.....	Petroleum, Coal	Appalachian Power Co	2,900

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
United States					
A. Florida Power & Light Company.....	95,542,625	50,875,435	40,037,337	4,058,048	571,805
B. TXU Energy Retail Co LP.....	89,456,982	37,118,787	20,133,202	32,204,993	0
C. Georgia Power Company.....	75,432,469	22,144,559	26,954,922	25,739,785	593,203
D. Duke Energy Corporation.....	75,362,408	24,685,433	24,252,706	26,154,340	269,929
E. Commonwealth Edison Company.....	73,835,297	27,474,341	25,517,175	13,016,569	7,827,212
Total.....	409,629,781	162,298,555	136,895,342	101,173,735	9,262,149
Percentage of Utility Sales.....	12	13	12	10	9

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
United States							
Coal	300,634	302,866	244,056	-2.3	39.8	38.9	27.0
Petroleum	42,699	41,545	23,067	-6.6	5.7	5.3	2.5
Natural Gas	49,709	53,552	50,026	.1	6.6	6.9	5.5
Other Gases	698	206	61	-23.7	.1	.0	.0
Dual Fired	109,066	116,174	88,476	-2.3	14.5	14.9	9.8
Nuclear	99,041	99,716	63,202	-4.9	13.1	12.8	7.0
Hydroelectric	95,910	95,487	91,198	-.6	12.7	12.3	10.1
Other Renewables	2,215	2,123	989	-8.6	.3	.3	.1
Other	0	222	0	NM	.0	.0	.0
Total Electric Utilities	699,971	711,889	561,074	-2.4	92.8	91.4	62.0
Coal	9,513	10,758	71,294	25.1	1.3	1.4	7.9
Petroleum	1,321	1,657	15,147	31.1	.2	.2	1.7
Natural Gas	15,814	22,797	121,635	25.4	2.1	2.9	13.4
Other Gases	1,233	1,320	1,947	5.2	.2	.2	.2
Dual Fired	11,091	13,209	73,813	23.4	1.5	1.7	8.2
Nuclear	0	0	35,455	NM	.0	.0	3.9
Hydroelectric	2,647	3,237	8,529	13.9	.4	.4	.9
Other Renewables	12,441	13,229	15,766	2.7	1.6	1.7	1.7
Other	550	552	641	1.7	.1	.1	.1
Total IPP's & Combined Heat and Power	54,611	66,760	344,227	22.7	7.2	8.6	38.0
Coal	310,148	313,624	315,350	.2	41.1	40.3	34.8
Petroleum	44,019	43,202	38,213	-1.6	5.8	5.5	4.2
Natural Gas	65,523	76,348	171,660	11.3	8.7	9.8	19.0
Other Gases	1,931	1,525	2,008	.4	.3	.2	.2
Dual Fired	120,157	129,384	162,289	3.4	15.9	16.6	17.9
Nuclear	99,041	99,716	98,657	.0	13.1	12.8	10.9
Hydroelectric	98,557	98,725	99,727	.1	13.1	12.7	11.0
Other Renewables	14,656	15,351	16,755	1.5	1.9	2.0	1.9
Other	550	774	641	1.7	.1	.1	.1
Total Electric Industry	754,582	778,649	905,301	2.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
United States							
Coal	1,639,151,186	1,787,806,344	1,514,669,950	-0.9	51.3	51.2	39.3
Petroleum	99,538,857	77,752,652	59,124,871	-5.6	3.1	2.2	1.5
Natural Gas	258,915,301	283,624,806	229,639,287	-1.3	8.1	8.1	6.0
Other Gases.....	0	0	206,469	NM	.0	.0	.0
Nuclear	610,291,214	628,644,171	507,379,828	-2.0	19.1	18.0	13.1
Hydroelectric	265,062,757	337,233,538	234,868,263	-1.3	8.3	9.7	6.1
Other Renewables.....	9,565,451	7,461,633	3,568,503	-10.4	.3	.2	.1
Total Electric Utilities	2,882,524,766	3,122,523,144	2,549,457,170	-1.4	90.2	89.4	66.1
Coal	50,919,046	57,209,393	418,460,404	26.4	1.6	1.6	10.8
Petroleum	13,249,326	14,802,220	35,442,523	11.6	.4	.4	.9
Natural Gas	156,011,497	195,773,865	461,366,458	12.8	4.9	5.6	12.0
Other Gases.....	12,955,798	13,350,633	11,256,217	-1.6	.4	.4	.3
Nuclear	0	0	272,684,259	NM	.0	.0	7.1
Hydroelectric	11,395,678	15,179,853	20,717,642	6.9	.4	.4	.5
Other Renewables	66,647,831	69,721,185	83,353,589	2.5	2.1	2.0	2.2
Other.....	3,487,156	3,611,990	5,713,990	5.6	.1	.1	.1
Total IPP's & Combined Heat and Power	314,666,332	369,649,138	1,308,995,082	17.2	9.8	10.6	33.9
Coal	1,690,070,232	1,845,015,737	1,933,130,354	1.5	52.9	52.8	50.1
Petroleum	112,788,183	92,554,872	94,567,394	-1.9	3.5	2.7	2.5
Natural Gas	414,926,798	479,398,671	691,005,745	5.8	13.0	13.7	17.9
Other Gases.....	12,955,798	13,350,633	11,462,686	-1.4	.4	.4	.3
Nuclear	610,291,214	628,644,171	780,064,087	2.8	19.1	18.0	20.2
Hydroelectric	276,458,435	352,413,391	255,585,905	-9	8.6	10.1	6.6
Other Renewables	76,213,282	77,182,818	86,922,092	1.5	2.4	2.2	2.3
Other.....	3,487,156	3,611,990	5,713,990	5.6	.1	.1	.1
Total Electric Industry.....	3,197,191,098	3,492,172,282	3,858,452,252	2.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
United States				
Coal (2002 cents per million Btu)	154.4	130.8	125.5	-2.3
Average heat value (Btu per pound)	10,315	10,275	10,157	-2
Average sulfur Content(percent)	1.2	1.1	.9	-2.5
Petroleum (2002 cents per million Btu)	264.6	280.6	334.3	2.6
Average heat value (Btu per gallon).....	136,888	137,405	143,493	.3
Average sulfur Content(percent)	1.4	1.4	1.6	1.9
Gas (2002 cents per million Btu).....	285.4	283.6	356.0	2.5
Average heat value (Btu per cubic foot).....	1,023	1,019	1,021	*

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
United States				
Sulfur Dioxide				
Coal	14,751	12,925	10,257	-4.0
Petroleum	855	740	582	-4.2
Gas.....	1	1	*	-8.8
Other.....	96	95	101	.5
Total	15,702	13,760	10,940	-3.9
Nitrogen Oxide				
Coal	6,824	5,875	4,337	-4.9
Petroleum	150	151	137	-1.0
Gas.....	583	599	587	.1
Other.....	78	84	98	2.6
Total	7,636	6,708	5,159	-4.3
Carbon Dioxide				
Coal	1,794,282	1,972,290	2,083,568	1.7
Petroleum	103,494	85,484	89,390	-1.6
Gas.....	243,960	279,506	373,655	4.8
Other.....	2,641	3,217	3,356	2.7
Total	2,144,376	2,340,497	2,549,969	1.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
United States							
Retail Sales (thousand megawatthours)							
Residential.....	994,781	1,075,880	1,266,959	2.7	34.8	34.2	36.6
Commercial.....	794,573	928,633	1,116,248	3.8	27.8	29.5	32.2
Industrial	977,164	1,038,197	972,168	-.1	34.1	33.0	28.1
Other	94,944	102,901	107,146	1.3	3.3	3.3	3.1
Total	2,861,462	3,145,610	3,462,521	2.1	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	92,251	93,212	107,229	1.7	41.8	42.1	43.0
Commercial.....	68,532	72,446	87,706	2.8	31.0	32.7	35.1
Industrial	52,754	48,323	47,486	-1.2	23.9	21.8	19.0
Other	7,272	7,307	7,208	-.1	3.3	3.3	2.9
Total	220,809	221,287	249,629	1.4	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	9.27	8.66	8.46	-1.0	NA	NA	NA
Commercial.....	8.63	7.80	7.86	-1.0	NA	NA	NA
Industrial	5.40	4.65	4.88	-1.1	NA	NA	NA
Other	7.66	7.10	6.73	-1.4	NA	NA	NA
Total	7.72	7.03	7.21	-.8	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
United States						
Number of Entities	196	1,986	6	825	71	3,084
Number of Retail Customers	89,708,610	24,853,095	38,695	15,740,366	3,022,267	133,363,033
Retail Sales (thousand megawatthours).....	2,191,647	734,371	36,482	327,901	172,120	3,462,521
Percentage of Retail Sales.....	63.30	21.21	1.05	9.47	4.97	100.00
Revenue from Retail Sales (million 2002 dollars)	165,842	49,195	997	22,712	10,884	249,629
Percentage of Revenue.....	66.44	19.71	.40	9.10	4.36	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.57	6.70	2.73	6.93	0	7.21

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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

Table A3. Selected Summary Statistics by State, 2002

State	Primary Fuel Source	Industry Capacity		Industry Net Generation		Industry Sulfur Dioxide Emissions		Industry Nitrogen Oxide Emissions		Industry Carbon Dioxide Emissions	
		(MW)	Rank	(MWh)	Rank	(1000 Short Tons)	Rank	(1000 Short Tons)	Rank	(1000 Short Tons)	Rank
Alabama	Coal	3,180	23	132,864,589	8	467	10	15,523	21	3,550,362	27
Alaska	Gas	268	45	6,009,538	48	4	48	3,015	36	1,101,941	40
Arizona	Coal	3,759	19	93,997,673	18	72	31	2,809	37	5,632,091	23
Arkansas	Coal	1,759	31	47,605,260	27	80	29	3,669	34	1,671,465	37
California	Other	32,079	4	181,901,069	5	48	37	69,883	7	47,305,827	4
Colorado	Coal	1,840	30	45,537,221	30	90	27	4,380	33	2,833,791	30
Connecticut	Other	7,365	11	31,289,755	39	11	46	9,634	24	9,719,038	17
Delaware	Other	3,332	22	5,998,707	49	33	40	11,657	23	5,838,190	22
District of Columbia	Other	806	40	261,980	52	1	49	652	46	288,010	46
Florida	Coal	6,781	12	203,040,185	3	502	7	33,677	13	11,930,275	15
Georgia	Coal	8,806	10	126,435,529	9	566	5	18,689	20	5,992,723	21
Hawaii	Petroleum	646	42	10,723,346	44	29	41	6,546	30	3,109,298	29
Idaho	Hydro	577	43	9,501,547	45	5	47	2,054	39	752,414	42
Illinois	Nuclear	40,565	2	187,814,268	4	405	11	153,072	3	82,144,132	3
Indiana	Coal	4,471	16	125,525,338	10	786	3	96,625	5	12,230,989	14
Iowa	Coal	939	39	42,419,062	33	148	22	6,847	29	1,802,006	36
Kansas	Coal	162	48	46,940,923	29	130	24	36	50	19,212	49
Kentucky	Coal	3,719	20	92,078,359	19	485	8	30,980	15	14,852,203	12
Louisiana	Other	11,414	8	94,953,987	16	181	20	56,453	9	26,001,203	8
Maine	Other	4,272	18	22,534,168	42	14	43	9,055	25	7,359,723	20
Maryland	Other	11,790	7	48,248,354	26	256	14	106,332	4	34,285,316	6
Massachusetts	Other	11,070	9	41,778,569	34	97	26	34,922	12	25,122,162	9
Michigan	Coal	6,079	13	117,063,685	12	355	12	20,126	18	7,726,808	18
Minnesota	Coal	968	38	52,162,033	25	111	25	7,522	28	2,718,765	31
Mississippi	Coal	4,812	15	42,868,458	32	72	30	3,377	35	4,473,387	26
Missouri	Coal	1,412	36	81,916,661	20	246	16	1,704	41	918,635	41
Montana	Other	2,942	26	25,459,514	41	45	38	38,672	10	17,886,411	11
Nebraska	Coal	23	50	31,580,411	37	68	32	284	48	85,203	48
Nevada	Coal	1,477	35	32,088,935	36	49	35	1,426	42	2,641,574	33
New Hampshire	Nuclear	2,323	28	15,949,805	43	44	39	1,750	40	167,088	47
New Jersey	Nuclear	17,141	6	61,569,387	22	49	36	35,713	11	20,304,116	10
New Mexico	Coal	479	44	30,281,024	40	51	33	630	47	405,058	45
New York	Other	24,378	5	139,221,428	7	233	17	69,724	8	41,386,756	5
North Carolina	Coal	3,046	24	124,438,359	11	483	9	20,582	17	5,556,100	24
North Dakota	Coal	45	49	31,306,296	38	144	23	1,334	44	433,882	44
Ohio	Coal	3,619	21	146,863,692	6	1172	1	33,147	14	7,492,248	19
Oklahoma	Coal	2,858	27	58,317,247	23	166	21	12,756	22	5,413,559	25
Oregon	Hydro	2,147	29	46,992,449	28	14	44	1,425	43	2,644,070	32
Pennsylvania	Other	34,901	3	204,122,080	2	892	2	193,868	2	111,507,762	2
Rhode Island	Other	1,715	33	7,044,929	47	*	50	1,303	45	3,293,668	28
South Carolina	Nuclear	1,281	37	96,489,284	14	216	19	5,136	31	1,560,925	38
South Dakota	Hydro	3	51	7,721,434	46	13	45	16	51	3,845	50
Tennessee	Coal	1,606	34	96,060,371	15	345	13	7,790	27	2,051,844	35
Texas	Other	55,624	1	385,245,998	1	629	4	201,994	1	142,155,826	1
Utah	Coal	185	47	36,259,169	35	51	34	4,623	32	687,248	43
Vermont	Nuclear	733	41	5,161,700	50	*	51	141	49	17	51
Virginia	Coal	4,403	17	74,978,258	21	251	15	27,218	16	9,860,466	16
Washington	Hydro	2,995	25	101,687,596	13	21	42	19,735	19	12,331,658	13
West Virginia	Coal	6,024	14	94,714,418	17	523	6	71,428	6	31,240,232	7
Wisconsin	Coal	1,738	32	58,009,442	24	219	18	8,158	26	2,535,111	34
Wyoming	Coal	232	46	43,775,399	31	87	28	2,135	38	1,236,251	39

Table A3. Selected Summary Statistics by State, 2002 (Continued)

State	Industry Electricity Consumption (excluding losses)		Utility Retail Sales		Nonutility Retail Sales and Direct Use		Utility Average Electricity Price	
	(MWh)	Rank	(MWh)	Rank	(MWh)	Rank	(cents/kWh)	Rank
Alabama	83,067,078	15	83,067,078	15	15,833,770	18	5.71	41
Alaska	5,465,489	51	5,465,489	50	2,406,875	41	10.46	7
Arizona	62,600,737	23	62,600,737	22	12,829,592	22	7.21	16
Arkansas	42,449,558	30	42,449,558	30	7,256,399	29	5.61	42
California	235,248,942	2	171,531,228	3	143,007,281	4	12.50	2
Colorado	45,936,696	27	45,936,696	26	4,629,794	36	6.00	34
Connecticut	30,905,605	33	30,615,280	33	35,202,076	10	9.73	9
Delaware	11,557,069	42	10,863,633	41	6,399,272	34	7.05	17
District of Columbia	11,066,099	43	5,680,946	48	265,973	49	7.37	14
Florida	210,473,530	3	210,473,530	2	28,604,644	12	7.31	15
Georgia	123,789,078	8	123,789,078	7	20,631,692	15	6.24	28
Hawaii	9,891,638	46	9,891,638	45	4,824,783	35	13.39	1
Idaho	20,699,666	38	20,699,666	38	1,783,951	43	5.58	44
Illinois	137,665,583	7	121,879,478	9	178,685,520	3	6.97	18
Indiana	101,428,550	11	101,428,550	11	18,713,113	17	5.34	48
Iowa	40,897,543	31	40,897,543	31	3,915,639	39	6.01	33
Kansas	36,713,540	32	36,713,540	32	534,003	47	6.31	25
Kentucky	87,266,835	14	87,266,835	14	13,102,899	21	4.26	51
Louisiana	79,260,989	16	79,260,989	16	63,600,311	7	5.99	35
Maine	9,635,779	47	1,025,206	51	27,790,563	13	11.36	3
Maryland	66,928,026	22	59,271,452	24	49,809,051	8	6.21	31
Massachusetts	52,409,743	25	43,879,763	29	43,409,654	9	10.18	8
Michigan	107,310,696	10	102,810,494	10	20,898,119	14	6.92	19
Minnesota	62,162,361	24	62,162,361	23	7,117,031	31	5.84	36
Mississippi	45,451,850	28	45,451,850	27	10,250,465	24	6.24	29
Missouri	75,000,629	19	75,000,629	19	1,693,685	44	6.09	32
Montana	12,574,530	41	10,323,186	42	19,537,245	16	5.75	39
Nebraska	25,661,061	36	25,661,061	36	135,313	50	5.55	45
Nevada	29,204,272	34	29,204,272	34	7,467,883	28	8.42	12
New Hampshire	10,490,029	44	10,319,936	43	4,175,124	38	10.49	6
New Jersey	74,460,421	20	73,368,045	20	76,183,910	6	9.31	10
New Mexico	19,206,917	39	19,206,917	39	1,303,582	45	6.73	21
New York	143,563,666	5	123,931,972	6	106,677,615	5	11.29	4
North Carolina	122,686,468	9	122,686,468	8	12,390,674	23	6.74	20
North Dakota	10,219,353	45	10,219,353	44	354,983	48	5.45	46
Ohio	155,999,230	4	135,562,777	4	8,345,717	26	6.66	22
Oklahoma	49,485,466	26	49,485,466	25	9,498,378	25	5.59	43
Oregon	45,255,173	29	45,255,173	28	8,070,608	27	6.32	24
Pennsylvania	140,786,670	6	129,654,562	5	182,931,299	2	8.01	13
Rhode Island	7,543,652	49	6,633,124	47	7,238,022	30	9.19	11
South Carolina	77,819,392	17	77,819,392	17	4,585,283	37	5.83	37
South Dakota	8,936,801	48	8,936,801	46	N/A	N/A	6.26	27
Tennessee	98,233,027	13	98,233,027	13	6,918,697	32	5.72	40
Texas	320,845,849	1	320,844,140	1	281,726,209	1	6.62	23
Utah	23,267,188	37	23,267,188	37	953,944	46	5.39	47
Vermont	5,629,263	50	5,629,263	49	2,520,977	40	10.87	5
Virginia	100,540,736	12	100,305,309	12	14,587,803	19	6.23	30
Washington	76,491,883	18	75,403,856	18	13,193,918	20	5.80	38
West Virginia	28,463,122	35	28,463,122	35	33,338,308	11	5.11	49
Wisconsin	66,999,296	21	66,999,296	21	6,610,574	33	6.28	26