

State Electricity Profiles 2001

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Quality

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Preface

The State Electricity Profiles 2001 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 real dollars(index=2001).

Data published in the State Electricity Profiles are compiled from five forms filed annually by electric utilities and unregulated 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"

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"

Data Contents

Table 1 provides State data values and U.S. rank for net summer generating capability, net generation, emissions, electricity sales (both utility and energy service providers in restructured States), and average retail price. An energy service provider is an energy entity that provides service to a retail or end-use customer. The North American Electric Reliability Council (NERC) region(s) and the primary energy source used for the generation of electricity are listed.

Table 2 provides information on the ten largest generating plants, including the operator of the plant and energy sources used at the plant.

Table 3 provides the five largest distribution electric utilities, based on the amount of retail sales in megawatthours. The amount of megawatthours is shown for total and each customer sector (residential, commercial, industrial, and other) in both absolute amount and as a percentage of the total megawatthours of sales in the State.

Table 4 provides the generating capability for the utility sector, nonutility sector, and total industry. Also shown is the percentage share for each of the presented years. Prior to 1998, nonutility data were confidential. In order to protect the confidentiality of individual respondent-s data, some nonutility information at the State level is withheld. Data for 1998 and following years are not confidential.

Table 5 provides the net generation for the utility sector, nonutility sector, and the whole industry. Also shown is the percentage share for each of the presented years. Prior to 1998, nonutility data were con-

fidential. In order to protect the confidentiality of individual respondent-s data, some nonutility information at the State level is withheld. Data for 1998 and following years are not confidential.

Table 6 provides electric utility data on fuel costs and quality for coal, petroleum, and gas. The cost of fuels is given in 2001 dollars, using the implicit price deflator values published by the U.S. Department of Commerce. Due to restructuring in the electric industry, some generating plants have been sold by electric utilities to nonregulated entities. These plants previously reported fuel cost data to the Federal Energy Regulatory Commission of FERC Form 423, but are no longer required to do so. This will affect comparisons of current and historical data.

Table 7 provides estimates for sulfur dioxide, nitrogen oxide, and carbon dioxide emissions produced by fossil-fueled electric generating plants.

Table 8 provides data for retail sales, revenue, and the average revenue per kilowatthour for sales within the State. Revenue and average revenue per kilowatthour are shown in real 2001 dollars using the implicit price deflator values published by the U.S. Department of Commerce.

Table 9 provides data for the number of entities in a State with number of customers, retail sales, revenue, and average revenue per kilowatthour by the type of entity: investor-owned, public (municipals and State owned), Federal, cooperative, and energy service providers.

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Alabama | | |
| North American Electric Reliability Council (NERC) Region(s) | | SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 23,835 | 13 |
| Utility | 22,532 | 9 |
| Nonutility | 1,303 | 33 |
| Net Generation (megawatthours)..... | 125,345,122 | 8 |
| Utility | 118,744,284 | 4 |
| Nonutility | 6,600,838 | 25 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide..... | 82,589 | 8 |
| Sulfur Dioxide/sq. mile | NA | NA |
| Nitrogen Oxide/sq. mile | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,627 | 15 |
| Utility and ESP Retail Electricity Sales (megawatthours) | 79,233,768 | 16 |
| Utility Retail Electricity Sales (megawatthours) | 79,233,768 | 15 |
| Direct Use (megawatthours) | 6,326,028 | 6 |
| Average Retail Price (cents/kWh) | 5.61 | 41 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 2,800 |
| 3. Barry..... | Petroleum, Gas, Coal | Alabama Power Co | 2,427 |
| 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 | 1,610 |
| 7. Colbert..... | Gas, Petroleum, Coal | Tennessee Valley Authority | 1,573 |
| 8. Gorgas | Petroleum, Coal | Alabama Power Co | 1,288 |
| 9. Greene County | Petroleum, Gas, Coal | Alabama Power Co | 1,257 |
| 10. Wilson Dam | Hydro | Tennessee Valley Authority | 645 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|-------------------------------------|-------------|-------------|------------|------------|---------|
| Alabama | | | | | |
| A. Alabama Power Company..... | 49,337,806 | 15,880,971 | 12,798,711 | 20,460,022 | 198,102 |
| B. Tennessee Valley Authority | 4,941,831 | 0 | 0 | 4,901,222 | 40,609 |
| C. City of Huntsville | 4,488,324 | 1,993,908 | 1,435,468 | 1,030,240 | 28,708 |
| D. Decatur Utilities..... | 1,402,558 | 361,342 | 280,288 | 753,161 | 7,767 |
| E. City of Florence | 1,140,006 | 595,629 | 377,143 | 155,948 | 11,286 |
| Total | 61,310,525 | 18,831,850 | 14,891,610 | 27,300,593 | 286,472 |
| Percentage of Utility Sales..... | 77.4 | 67.7 | 78.9 | 85.8 | 38.8 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Alabama | | | | | | | |
| Coal..... | 11,599 | 11,515 | 11,362 | -0.2 | 56.4 | 53.0 | 47.7 |
| Petroleum..... | 18 | 20 | 34 | 7.5 | .1 | .1 | .1 |
| Natural Gas..... | 50 | 92 | 1,572 | 46.7 | .2 | .4 | 6.6 |
| Dual Fired..... | 494 | 1,345 | 1,585 | 13.8 | 2.4 | 6.2 | 6.6 |
| Nuclear..... | 4,836 | 4,839 | 4,966 | .3 | 23.5 | 22.3 | 20.8 |
| Hydroelectric..... | 2,934 | 2,881 | 3,014 | .3 | 14.3 | 13.3 | 12.6 |
| Total Utility..... | 19,930 | 20,692 | 22,532 | 1.4 | 96.9 | 95.2 | 94.5 |
| Coal..... | W | W | 23 | W | W | W | .1 |
| Petroleum..... | W | W | 6 | W | W | W | .0 |
| Natural Gas..... | 38 | 176 | 546 | 34.3 | .2 | .8 | 2.3 |
| Other Gases..... | 90 | 111 | 0 | -100.0 | .4 | .5 | .0 |
| Dual Fired..... | W | W | 296 | W | W | W | 1.2 |
| Other Renewables..... | W | W | 432 | W | W | W | 1.8 |
| Total Nonutility..... | 644 | 1,037 | 1,303 | 8.1 | 3.1 | 4.8 | 5.5 |
| Coal..... | W | W | 11,385 | W | W | W | 47.8 |
| Petroleum..... | W | W | 39 | W | W | W | .2 |
| Natural Gas..... | 88 | 268 | 2,118 | 42.3 | .4 | 1.2 | 8.9 |
| Other Gases..... | 90 | 111 | 0 | -100.0 | .4 | .5 | .0 |
| Dual Fired..... | W | W | 1,881 | W | W | W | 7.9 |
| Nuclear..... | 4,836 | 4,839 | 4,966 | .3 | 23.5 | 22.3 | 20.8 |
| Hydroelectric..... | 2,934 | 2,881 | 3,014 | .3 | 14.3 | 13.3 | 12.6 |
| Other Renewables..... | W | W | 432 | W | W | W | 1.8 |
| Total Industry..... | 20,574 | 21,730 | 23,835 | 1.6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Alabama | | | | | | | |
| Coal..... | 60,689,987 | 73,598,580 | 71,483,576 | 1.8 | 63.7 | 60.6 | 57.0 |
| Petroleum..... | 82,129 | 155,778 | 262,600 | 13.8 | .1 | .1 | .2 |
| Natural Gas..... | 362,658 | 549,397 | 8,284,663 | 41.6 | .4 | .5 | 6.6 |
| Nuclear..... | 19,397,436 | 29,707,535 | 30,357,063 | 5.1 | 20.4 | 24.5 | 24.2 |
| Hydroelectric..... | 10,260,023 | 11,081,921 | 8,356,382 | -2.3 | 10.8 | 9.1 | 6.7 |
| Total Utility..... | 90,792,233 | 115,093,211 | 118,744,284 | 3.0 | 95.3 | 94.7 | 94.7 |
| Coal..... | 470,684 | 492,904 | 714,539 | 4.7 | .5 | .4 | .6 |
| Petroleum..... | 112,737 | 159,599 | 171,953 | 4.8 | .1 | .1 | .1 |
| Natural Gas..... | 1,033,405 | 1,334,842 | 1,328,022 | 2.8 | 1.1 | 1.1 | 1.1 |
| Other Gases..... | 328,720 | 307,056 | 189,146 | -6.0 | .3 | .3 | .2 |
| Other Renewable..... | 2,496,642 | 4,085,296 | 4,196,704 | 5.9 | 2.6 | 3.4 | 3.3 |
| Other..... | 0 | 0 | 474 | .0 | .0 | .0 | .0 |
| Total Nonutility..... | 4,442,188 | 6,379,698 | 6,600,838 | 4.5 | 4.7 | 5.3 | 5.3 |
| Coal..... | 61,160,671 | 74,091,484 | 72,198,115 | 1.9 | 64.2 | 61.0 | 57.6 |
| Petroleum..... | 194,866 | 315,377 | 434,553 | 9.3 | .2 | .3 | .3 |
| Natural Gas..... | 1,396,063 | 1,884,239 | 9,612,685 | 23.9 | 1.5 | 1.6 | 7.7 |
| Other Gases..... | 328,720 | 307,056 | 189,146 | -6.0 | .3 | .3 | .2 |
| Nuclear..... | 19,397,436 | 29,707,535 | 30,357,063 | 5.1 | 20.4 | 24.5 | 24.2 |
| Hydroelectric..... | 10,260,023 | 11,081,921 | 8,356,382 | -2.3 | 10.8 | 9.1 | 6.7 |
| Other Renewable..... | 2,496,642 | 4,085,296 | 4,196,704 | 5.9 | 2.6 | 3.4 | 3.3 |
| Other..... | 0 | 0 | 474 | .0 | .0 | .0 | .0 |
| Total Industry..... | 95,234,421 | 121,472,909 | 125,345,122 | 3.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Alabama | | | | |
| Coal (2001 cents per million Btu)..... | 197.2 | 161.7 | 141.1 | -3.6 |
| Average heat value (Btu per pound)..... | 12,061 | 11,794 | 10,850 | -1.2 |
| Average sulfur Content(percent)..... | 1.4 | 1.2 | .9 | -4.8 |
| Petroleum (2001 cents per million Btu)..... | 524.9 | 467.2 | 552.1 | .6 |
| Average heat value (Btu per gallon)..... | 137,166 | 139,385 | 138,029 | .1 |
| Gas (2001 cents per million Btu)..... | 254.4 | 301.5 | 505.5 | 7.9 |
| Average heat value (Btu per cubic foot)..... | 1020.8 | 1024.3 | 1028.9 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Alabama | | | | |
| Sulfur Dioxide | | | | |
| Coal | 528 | 593 | NA | NA |
| Petroleum | * | 2 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 8 | 11 | NA | NA |
| Total | 537 | 606 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 215 | 222 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas | 12 | 13 | NA | NA |
| Other | 2 | 3 | NA | NA |
| Total | 229 | 238 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 62,186 | 75,707 | 76,504 | 2.3 |
| Petroleum | 210 | 341 | 472 | 9.4 |
| Gas | 1,272 | 1,934 | 5,613 | 17.9 |
| Total | 63,668 | 77,982 | 82,589 | 2.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Alabama | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 21,137 | 25,634 | 27,802 | 3.1 | 34.0 | 35.1 | 35.1 |
| Commercial | 10,917 | 13,328 | 18,868 | 6.3 | 17.6 | 18.2 | 23.8 |
| Industrial | 29,476 | 33,523 | 31,825 | .9 | 47.4 | 45.9 | 40.2 |
| Other | 637 | 620 | 739 | 1.7 | 1.0 | .8 | .9 |
| Total | 62,167 | 73,104 | 79,234 | 2.7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,612 | 1,781 | 1,950 | 2.1 | 40.8 | 43.4 | 43.9 |
| Commercial | 853 | 906 | 1,233 | 4.2 | 21.6 | 22.1 | 27.7 |
| Industrial | 1,442 | 1,368 | 1,209 | -1.9 | 36.5 | 33.4 | 27.2 |
| Other | 42 | 44 | 53 | 2.4 | 1.1 | 1.1 | 1.2 |
| Total | 3,950 | 4,100 | 4,444 | 1.3 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 7.63 | 6.95 | 7.01 | -.9 | NA | NA | NA |
| Commercial | 7.81 | 6.80 | 6.53 | -2.0 | NA | NA | NA |
| Industrial | 4.89 | 4.08 | 3.80 | -2.8 | NA | NA | NA |
| Other | 6.66 | 7.15 | 7.11 | .7 | NA | NA | NA |
| Total | 6.35 | 5.61 | 5.61 | -1.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Alabama | | | | | | |
| Number of Entities | 1 | 36 | 1 | 24 | 0 | 62 |
| Number of Retail Customers..... | 1,336,579 | 462,239 | 13 | 486,575 | 0 | 2,285,406 |
| Retail Sales (thousand megawatthours)..... | 49,338 | 15,074 | 4,942 | 9,880 | 0 | 79,234 |
| Percentage of Retail Sales..... | 62.27 | 19.02 | 6.24 | 12.47 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 2,748 | 864 | 155 | 678 | 0 | 4,444 |
| Percentage of Revenue | 61.82 | 19.45 | 3.49 | 15.24 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.57 | 5.73 | 3.14 | 6.86 | 0 | 5.61 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-----------|-----------|
| Alaska | | |
| North American Electric Reliability Council (NERC) Region(s) | | -- |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 2,076 | 48 |
| Utility..... | 1,770 | 40 |
| Nonutility..... | 305 | 45 |
| Net Generation (megawatthours) | 6,743,770 | 49 |
| Utility..... | 5,416,191 | 41 |
| Nonutility..... | 1,327,579 | 42 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 4,558 | 46 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 8 | 50 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 5,427,689 | 51 |
| Utility Retail Electricity Sales (megawatthours) | 5,427,689 | 50 |
| Direct Use (megawatthours)..... | 1,071,323 | 26 |
| Average Retail Price (cents/kWh)..... | 10.53 | 9 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------------|----------------|--------------------------------|---------------------|
| Alaska | | | |
| 1. Beluga | Gas | Chugach Electric Assn Inc | 361 |
| 2. George M Sullivan | 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 | 106 |
| 5. Anchorage I..... | Petroleum, Gas | Municipality of Anchorage | 79 |
| 6. Snettisham..... | Hydro | Alaska Electric Light&Power Co | 78 |
| 7. Central Production Fa..... | Other | 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 | Municipality of Anchorage | 44 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|--------|
| Alaska | | | | | |
| A. Chugach Electric Assn, Inc..... | 1,112,183 | 521,557 | 557,619 | 28,240 | 4,767 |
| B. Golden Valley Elec Assn, Inc..... | 1,071,392 | 283,060 | 124,023 | 664,309 | 0 |
| C. Anchorage Mun Light and Power..... | 879,742 | 148,399 | 721,040 | 0 | 10,303 |
| D. Matanuska Electric Assn, Inc..... | 532,312 | 332,253 | 199,372 | 0 | 687 |
| E. Homer Electric Assn, Inc | 476,823 | 151,667 | 161,720 | 162,211 | 1,225 |
| Total | 4,072,452 | 1,436,936 | 1,763,774 | 854,760 | 16,982 |
| Percentage of Utility Sales..... | 75 | 76 | 78 | 79 | 9 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Alaska | | | | | | | |
| Coal..... | 54 | 54 | 25 | -8.1 | 2.7 | 2.7 | 1.2 |
| Petroleum..... | 462 | 531 | 527 | 1.5 | 23.7 | 26.4 | 25.4 |
| Natural Gas..... | 496 | 489 | 511 | .3 | 25.4 | 24.3 | 24.6 |
| Dual Fired..... | 308 | 308 | 308 | .0 | 15.8 | 15.3 | 14.8 |
| Hydroelectric..... | 352 | 353 | 399 | 1.4 | 18.0 | 17.5 | 19.2 |
| Other Renewables..... | * | * | 0 | -100.0 | .0 | .0 | .0 |
| Total Utility..... | 1,672 | 1,734 | 1,770 | .6 | 85.6 | 86.2 | 85.3 |
| Coal..... | W | W | 60 | W | W | W | 2.9 |
| Petroleum..... | W | W | 56 | W | W | W | 2.7 |
| Natural Gas..... | W | W | 188 | W | W | W | 9.1 |
| Dual Fired..... | W | W | 1 | W | W | W | .0 |
| Other Renewables..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 281 | 277 | 305 | .9 | 14.4 | 13.8 | 14.7 |
| Coal..... | W | W | 85 | W | W | W | 4.1 |
| Petroleum..... | W | W | 583 | W | W | W | 28.1 |
| Natural Gas..... | W | W | 699 | W | W | W | 33.7 |
| Dual Fired..... | W | W | 309 | W | W | W | 14.9 |
| Hydroelectric..... | 352 | 353 | 399 | 1.4 | 18.0 | 17.5 | 19.2 |
| Other Renewables..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 1,953 | 2,012 | 2,075 | .7 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------------|------------------|------------------|--|-----------------------|-----------------------|-----------------------|
| Alaska | | | | | | | |
| Coal..... | 289,529 | 229,129 | 194,008 | -4.4 | 5.5 | 3.7 | 2.9 |
| Petroleum..... | 406,988 | 643,278 | 847,761 | 8.5 | 7.7 | 10.5 | 12.6 |
| Natural Gas..... | 2,552,417 | 2,843,998 | 3,027,807 | 1.9 | 48.2 | 46.4 | 44.9 |
| Hydroelectric..... | 918,120 | 1,265,863 | 1,345,665 | 4.3 | 17.3 | 20.7 | 20.0 |
| Other Renewable..... | 0 | 0 | 950 | .0 | .0 | .0 | .0 |
| Total Utility..... | 4,167,054 | 4,982,268 | 5,416,191 | 3.0 | 78.6 | 81.3 | 80.3 |
| Coal..... | W | W | 370,586 | W | W | W | 5.5 |
| Petroleum..... | 114,963 | 127,398 | 89,234 | -2.8 | 2.2 | 2.1 | 1.3 |
| Natural Gas..... | W | W | 867,759 | W | W | W | 12.9 |
| Other Renewable..... | 148,229 | 114,899 | 0 | -100.0 | 2.8 | 1.9 | .0 |
| Total Nonutility..... | 1,131,370 | 1,146,624 | 1,327,579 | 1.8 | 21.4 | 18.7 | 19.7 |
| Coal..... | W | W | 564,594 | W | W | W | 8.4 |
| Petroleum..... | 521,951 | 770,676 | 936,995 | 6.7 | 9.9 | 12.6 | 13.9 |
| Natural Gas..... | W | W | 3,895,566 | W | W | W | 57.8 |
| Hydroelectric..... | 918,120 | 1,265,863 | 1,345,665 | 4.3 | 17.3 | 20.7 | 20.0 |
| Other Renewable..... | 148,229 | 114,899 | 950 | -42.9 | 2.8 | 1.9 | .0 |
| Total Industry..... | 5,298,424 | 6,128,892 | 6,743,770 | 2.7 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|-------|--------|--------|--|
| Alaska | | | | |
| Gas (2001 cents per million Btu)..... | 134.2 | 151.5 | 236.1 | 6.5 |
| Average heat value (Btu per cubic foot.....) | 999.9 | 1000.8 | 1000.0 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|-------|-------|-------|--|
| Alaska | | | | |
| Sulfur Dioxide | | | | |
| Coal | 4 | 7 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 5 | 8 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 4 | 4 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | 5 | 6 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 10 | 10 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 868 | 859 | 1,154 | 3.2 |
| Petroleum | 464 | 688 | 862 | 7.1 |
| Gas..... | 2,223 | 2,380 | 2,542 | 1.5 |
| Total | 3,554 | 3,927 | 4,558 | 2.8 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|-------|--|-----------------------|-----------------------|-----------------------|
| Alaska | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 1,640 | 1,766 | 1,891 | 1.6 | 37.8 | 36.9 | 34.8 |
| Commercial..... | 2,035 | 2,250 | 2,263 | 1.2 | 46.9 | 47.1 | 41.7 |
| Industrial..... | 504 | 584 | 1,079 | 8.8 | 11.6 | 12.2 | 19.9 |
| Other..... | 160 | 179 | 194 | 2.2 | 3.7 | 3.8 | 3.6 |
| Total..... | 4,339 | 4,780 | 5,428 | 2.5 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 203 | 210 | 229 | 1.4 | 41.1 | 41.0 | 40.1 |
| Commercial..... | 219 | 226 | 233 | .6 | 44.6 | 44.0 | 40.7 |
| Industrial..... | 45 | 52 | 82 | 7.0 | 9.0 | 10.1 | 14.4 |
| Other..... | 26 | 25 | 28 | .8 | 5.3 | 4.9 | 4.9 |
| Total..... | 492 | 513 | 572 | 1.7 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.35 | 11.90 | 12.12 | -.2 | NA | NA | NA |
| Commercial..... | 10.78 | 10.03 | 10.28 | -.5 | NA | NA | NA |
| Industrial..... | 8.83 | 8.87 | 7.61 | -1.6 | NA | NA | NA |
| Other..... | 16.21 | 13.97 | 14.37 | -1.3 | NA | NA | NA |
| Total..... | 11.35 | 10.73 | 10.53 | -.8 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| Alaska | | | | | | |
| Number of Entities..... | 21 | 35 | 0 | 18 | 0 | 74 |
| Number of Retail Customers..... | 25,998 | 56,422 | 0 | 196,721 | 0 | 279,141 |
| Retail Sales (thousand megawatthours)..... | 451 | 1,392 | 0 | 3,585 | 0 | 5,428 |
| Percentage of Retail Sales..... | 8.31 | 25.64 | .00 | 66.05 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 59 | 137 | 0 | 376 | 0 | 572 |
| Percentage of Revenue..... | 10.37 | 23.92 | .00 | 65.71 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 13.14 | 9.83 | .00 | 10.48 | 0 | 10.53 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Arizona | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 16,721 | 20 |
| Utility..... | 15,284 | 15 |
| Nonutility..... | 1,437 | 30 |
| Net Generation (megawatthours) | 89,911,270 | 15 |
| Utility..... | 85,807,868 | 11 |
| Nonutility..... | 4,103,402 | 32 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 50,363 | 19 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 443 | 38 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 62,281,754 | 22 |
| Utility Retail Electricity Sales (megawatthours) | 62,274,304 | 22 |
| ESP Retail Electricity Sales (megawatthours) | 7,450 | 19 |
| Direct Use (megawatthours)..... | 265,761 | 38 |
| Average Retail Price (cents/kWh)..... | 7.27 | 17 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 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. Springerville..... | Petroleum, Coal | Tucson Electric Power Co | 800 |
| 7. Coronado..... | Petroleum, Coal | Salt River Proj Ag I & P Dist | 785 |
| 8. Agua Fria | Other, Petroleum, Gas | Salt River Proj Ag I & P Dist | 626 |
| 9. Desert Basin..... | Other | Reliant Energy Desert Basin LP | 598 |
| 10. South Point Energy Ce..... | Other | South Point Energy Center LLC | 555 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|-----------|
| Arizona | | | | | |
| A. Arizona Public Service Company | 23,399,011 | 10,334,860 | 10,504,044 | 2,460,297 | 99,810 |
| B. Salt River Project..... | 22,907,699 | 10,499,930 | 8,289,414 | 3,358,205 | 760,150 |
| C. Tucson Electric Power Company..... | 8,260,882 | 3,122,331 | 1,573,213 | 3,311,208 | 254,130 |
| D. Citizens Communications Co..... | 1,277,197 | 618,463 | 372,785 | 81,652 | 204,297 |
| E. Morenci Water & Electric Co..... | 1,259,229 | 10,695 | 13,967 | 1,234,567 | 0 |
| Total | 57,104,018 | 24,586,279 | 20,753,423 | 10,445,929 | 1,318,387 |
| Percentage of Utility Sales..... | 92 | 94 | 94 | 92 | 50 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Arizona | | | | | | | |
| Coal..... | 5,070 | 5,201 | 5,336 | 0.6 | 33.6 | 34.0 | 31.9 |
| Petroleum..... | 75 | 92 | 88 | 1.9 | .5 | .6 | .5 |
| Natural Gas..... | 233 | 107 | 105 | -8.5 | 1.5 | .7 | .6 |
| Dual Fired..... | 3,006 | 3,111 | 3,130 | .4 | 19.9 | 20.3 | 18.7 |
| Nuclear..... | 3,810 | 3,751 | 3,733 | -.2 | 25.3 | 24.5 | 22.3 |
| Hydroelectric..... | 2,780 | 2,884 | 2,887 | .4 | 18.4 | 18.8 | 17.3 |
| Other Renewables..... | 0 | 0 | 5 | .0 | .0 | .0 | .0 |
| Total Utility..... | 14,973 | 15,147 | 15,284 | .2 | 99.3 | 99.0 | 91.4 |
| Coal..... | W | W | 68 | W | W | W | .4 |
| Petroleum..... | W | W | 4 | W | W | W | .0 |
| Natural Gas..... | W | W | 1,326 | W | W | W | 7.9 |
| Dual Fired..... | W | W | 39 | W | W | W | .2 |
| Total Nonutility..... | 105 | 157 | 1,437 | 33.7 | .7 | 1.0 | 8.6 |
| Coal..... | W | W | 5,404 | W | W | W | 32.3 |
| Petroleum..... | W | W | 92 | W | W | W | .5 |
| Natural Gas..... | W | W | 1,431 | W | W | W | 8.6 |
| Dual Fired..... | W | W | 3,169 | W | W | W | 19.0 |
| Nuclear..... | 3,810 | 3,751 | 3,733 | -.2 | 25.3 | 24.5 | 22.3 |
| Hydroelectric..... | 2,780 | 2,884 | 2,887 | .4 | 18.4 | 18.8 | 17.3 |
| Other Renewables..... | 0 | 0 | 5 | .0 | .0 | .0 | .0 |
| Total Industry..... | 15,078 | 15,304 | 16,721 | 1.2 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Arizona | | | | | | | |
| Coal..... | 34,602,347 | 30,780,575 | 39,731,623 | 1.5 | 49.0 | 43.0 | 44.2 |
| Petroleum..... | 72,838 | 65,097 | 311,787 | 17.5 | .1 | .1 | .3 |
| Natural Gas..... | 2,913,866 | 1,712,031 | 9,106,433 | 13.5 | 4.1 | 2.4 | 10.1 |
| Nuclear..... | 25,608,706 | 28,839,587 | 28,724,076 | 1.3 | 36.3 | 40.2 | 31.9 |
| Hydroelectric..... | 6,911,222 | 9,479,753 | 7,899,859 | 1.5 | 9.8 | 13.2 | 8.8 |
| Other Renewable..... | 0 | 0 | 34,090 | .0 | .0 | .0 | .0 |
| Total Utility..... | 70,108,979 | 70,877,043 | 85,807,868 | 2.3 | 99.4 | 98.9 | 95.4 |
| Coal..... | 214,741 | 251,966 | 329,871 | 4.9 | .3 | .4 | .4 |
| Petroleum..... | W | W | 2,418 | W | W | W | .0 |
| Natural Gas..... | 61,499 | 444,351 | 3,765,767 | 58.0 | .1 | .6 | 4.2 |
| Other Renewable..... | W | W | 5,347 | W | W | W | .0 |
| Total Nonutility..... | 443,748 | 777,775 | 4,103,402 | 28.0 | .6 | 1.1 | 4.6 |
| Coal..... | 34,817,088 | 31,032,541 | 40,061,494 | 1.6 | 49.3 | 43.3 | 44.6 |
| Petroleum..... | W | W | 314,205 | W | W | W | .3 |
| Natural Gas..... | 2,975,365 | 2,156,382 | 12,872,200 | 17.7 | 4.2 | 3.0 | 14.3 |
| Nuclear..... | 25,608,706 | 28,839,587 | 28,724,076 | 1.3 | 36.3 | 40.2 | 31.9 |
| Hydroelectric..... | 6,911,222 | 9,479,753 | 7,899,859 | 1.5 | 9.8 | 13.2 | 8.8 |
| Other Renewable..... | W | W | 39,437 | W | W | W | .0 |
| Total Industry..... | 70,552,727 | 71,654,818 | 89,911,270 | 2.7 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Arizona | | | | |
| Coal (2001 cents per million Btu) | 156.8 | 151.3 | 125.0 | -2.5 |
| Average heat value (Btu per pound) | 10,303 | 10,232 | 10,175 | -.1 |
| Average sulfur Content(percent) | .5 | .6 | .6 | 1.4 |
| Petroleum (2001 cents per million Btu) | 532.5 | 564.6 | 706.3 | 3.2 |
| Average heat value (Btu per gallon)..... | 140,379 | 142,294 | 220,951 | 5.2 |
| Average sulfur Content(percent) | .0 | .0 | 3.7 | .0 |
| Gas (2001 cents per million Btu)..... | 252.6 | 312.5 | 460.4 | 6.9 |
| Average heat value (Btu per cubic foot..... | 1030.5 | 1015.4 | 1020.4 | -.1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Arizona | | | | |
| Sulfur Dioxide | | | | |
| Coal | 129 | 125 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 129 | 126 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 120 | 71 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 4 | 3 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 124 | 74 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 36,794 | 34,045 | 42,363 | 1.6 |
| Petroleum | 83 | 64 | 326 | 16.3 |
| Gas..... | 1,894 | 1,356 | 7,675 | 16.8 |
| Total | 38,772 | 35,464 | 50,363 | 2.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Arizona | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 16,230 | 19,746 | 26,200 | 5.5 | 37.2 | 37.9 | 42.1 |
| Commercial..... | 14,468 | 17,252 | 22,053 | 4.8 | 33.1 | 33.1 | 35.4 |
| Industrial..... | 11,055 | 12,783 | 11,377 | .3 | 25.3 | 24.5 | 18.3 |
| Other..... | 1,898 | 2,303 | 2,652 | 3.8 | 4.3 | 4.4 | 4.3 |
| Total..... | 43,651 | 52,085 | 62,282 | 4.0 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,774 | 1,851 | 2,174 | 2.3 | 43.8 | 45.0 | 48.0 |
| Commercial..... | 1,426 | 1,441 | 1,624 | 1.4 | 35.2 | 35.0 | 35.9 |
| Industrial..... | 726 | 695 | 597 | -2.2 | 17.9 | 16.9 | 13.2 |
| Other..... | 124 | 130 | 131 | .6 | 3.1 | 3.2 | 2.9 |
| Total..... | 4,051 | 4,117 | 4,526 | 1.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 10.93 | 9.37 | 8.30 | -3.0 | NA | NA | NA |
| Commercial..... | 9.86 | 8.35 | 7.36 | -3.2 | NA | NA | NA |
| Industrial..... | 6.57 | 5.44 | 5.24 | -2.5 | NA | NA | NA |
| Other..... | 6.55 | 5.64 | 4.93 | -3.1 | NA | NA | NA |
| Total..... | 9.28 | 7.90 | 7.27 | -2.7 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Arizona | | | | | | |
| Number of Entities..... | 5 | 28 | 3 | 10 | 1 | 47 |
| Number of Retail Customers..... | 1,299,210 | 824,888 | 20,287 | 143,261 | 7 | 2,287,653 |
| Retail Sales (thousand megawatthours)..... | 34,209 | 24,851 | 1,204 | 2,010 | 7 | 62,282 |
| Percentage of Retail Sales..... | 54.93 | 39.90 | 1.93 | 3.23 | .01 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 2,712 | 1,601 | 40 | 173 | 1 | 4,526 |
| Percentage of Revenue..... | 59.92 | 35.37 | .88 | 3.82 | .01 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.93 | 6.44 | 3.32 | 8.60 | 0 | 7.27 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Arkansas | | |
| North American Electric Reliability Council (NERC) Region(s) | | SPP/SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 10,120 | 31 |
| Utility..... | 9,615 | 25 |
| Nonutility..... | 505 | 43 |
| Net Generation (megawatthours) | 47,192,036 | 28 |
| Utility..... | 44,728,133 | 24 |
| Nonutility..... | 2,463,903 | 37 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 30,449 | 33 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 585 | 31 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 41,732,449 | 30 |
| Utility Retail Electricity Sales (megawatthours) | 41,732,449 | 30 |
| Direct Use (megawatthours)..... | 2,144,200 | 19 |
| Average Retail Price (cents/kWh)..... | 6.05 | 35 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------------|-----------------|--------------------------------|---------------------|
| Arkansas | | | |
| 1. Arkansas Nuclear One..... | Nuclear | Entergy Arkansas Inc | 1,782 |
| 2. Independence | Petroleum, Coal | Entergy Arkansas Inc | 1,651 |
| 3. White Bluff..... | Petroleum, Coal | Entergy Arkansas Inc | 1,610 |
| 4. Robert E Ritchie..... | Gas | Entergy Arkansas Inc | 878 |
| 5. Lake Catherine..... | Gas | Entergy Arkansas Inc | 745 |
| 6. Flint Creek..... | Petroleum, Coal | Southwestern Electric Power Co | 480 |
| 7. Bull Shoals..... | Hydro | USCE-Little Rock District | 391 |
| 8. Pine Bluff Energy Cen..... | Other | Pine Bluff Energy LLC | 203 |
| 9. Cecil Lynch..... | Other | Entergy Arkansas Inc | 175 |
| 10. Dardanelle | Hydro | USCE-Little Rock District | 161 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|---------|
| Arkansas | | | | | |
| A. Entergy Arkansas, Inc | 19,300,579 | 6,917,135 | 5,087,419 | 7,051,660 | 244,365 |
| B. Southwestern Electric Power Co..... | 3,799,078 | 963,275 | 920,375 | 1,808,612 | 106,816 |
| C. Mississippi Cnty Elec Coop Inc..... | 3,013,879 | 53,525 | 20,678 | 2,938,024 | 1,652 |
| D. Oklahoma Gas & Electric Co..... | 2,599,595 | 677,250 | 712,436 | 1,095,683 | 114,226 |
| E. First Electric Coop Corp..... | 1,377,433 | 901,335 | 162,069 | 253,668 | 60,361 |
| Total | 30,090,564 | 9,512,520 | 6,902,977 | 13,147,647 | 527,420 |
| Percentage of Utility Sales..... | 72 | 63 | 75 | 79 | 71 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Arkansas | | | | | | | |
| Coal..... | 3,817 | 3,817 | 3,741 | -0.2 | 37.9 | 38.1 | 37.0 |
| Petroleum..... | 204 | 206 | 18 | -23.8 | 2.0 | 2.1 | .2 |
| Natural Gas..... | 67 | 32 | 199 | 12.9 | .7 | .3 | 2.0 |
| Dual Fired..... | 2,564 | 2,564 | 2,457 | -.5 | 25.5 | 25.6 | 24.3 |
| Nuclear..... | 1,694 | 1,694 | 1,782 | .6 | 16.8 | 16.9 | 17.6 |
| Hydroelectric..... | 1,293 | 1,326 | 1,419 | 1.0 | 12.8 | 13.2 | 14.0 |
| Total Utility..... | 9,639 | 9,639 | 9,615 | .0 | 95.7 | 96.1 | 95.0 |
| Petroleum..... | W | W | 0 | W | W | W | .0 |
| Natural Gas..... | 135 | 17 | 234 | 6.3 | 1.3 | .2 | 2.3 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 1 | W | W | W | .0 |
| Other Renewables..... | W | W | 270 | W | W | W | 2.7 |
| Total Nonutility..... | 428 | 391 | 505 | 1.9 | 4.3 | 3.9 | 5.0 |
| Coal..... | 3,817 | 3,817 | 3,741 | -.2 | 37.9 | 38.1 | 37.0 |
| Petroleum..... | W | W | 18 | W | W | W | .2 |
| Natural Gas..... | 202 | 48 | 432 | 8.8 | 2.0 | .5 | 4.3 |
| Dual Fired..... | W | W | 2,457 | W | W | W | 24.3 |
| Nuclear..... | 1,694 | 1,694 | 1,782 | .6 | 16.8 | 16.9 | 17.6 |
| Hydroelectric..... | W | W | 1,420 | W | W | W | 14.0 |
| Other Renewables..... | W | W | 270 | W | W | W | 2.7 |
| Total Industry..... | 10,067 | 10,029 | 10,120 | .1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Arkansas | | | | | | | |
| Coal..... | 20,030,355 | 24,339,185 | 24,678,344 | 2.3 | 50.4 | 52.9 | 52.3 |
| Petroleum..... | 49,640 | 98,250 | 846,105 | 37.0 | .1 | .2 | 1.8 |
| Natural Gas..... | 2,584,356 | 3,086,760 | 1,874,675 | -3.5 | 6.5 | 6.7 | 4.0 |
| Nuclear..... | 11,325,661 | 13,356,671 | 14,780,789 | 3.0 | 28.5 | 29.0 | 31.3 |
| Hydroelectric..... | 3,379,811 | 2,796,669 | 2,548,220 | -3.1 | 8.5 | 6.1 | 5.4 |
| Total Utility..... | 37,369,823 | 43,677,535 | 44,728,133 | 2.0 | 94.0 | 94.9 | 94.8 |
| Coal..... | 63,245 | 49,232 | 86,128 | 3.5 | .2 | .1 | .2 |
| Petroleum..... | 3,028 | 15,707 | 33,288 | 30.5 | .0 | .0 | .1 |
| Natural Gas..... | 842,276 | 706,974 | 832,225 | -.1 | 2.1 | 1.5 | 1.8 |
| Hydroelectric..... | W | W | 31 | W | W | W | .0 |
| Other Renewable..... | 1,467,594 | 1,583,818 | 1,512,071 | .3 | 3.7 | 3.4 | 3.2 |
| Other..... | W | W | 161 | W | W | W | .0 |
| Total Nonutility..... | 2,376,279 | 2,356,027 | 2,463,903 | .4 | 6.0 | 5.1 | 5.2 |
| Coal..... | 20,093,600 | 24,388,417 | 24,764,472 | 2.3 | 50.6 | 53.0 | 52.5 |
| Petroleum..... | 52,668 | 113,957 | 879,393 | 36.7 | .1 | .2 | 1.9 |
| Natural Gas..... | 3,426,632 | 3,793,734 | 2,706,900 | -2.6 | 8.6 | 8.2 | 5.7 |
| Nuclear..... | 11,325,661 | 13,356,671 | 14,780,789 | 3.0 | 28.5 | 29.0 | 31.3 |
| Hydroelectric..... | W | W | 2,548,251 | W | W | W | 5.4 |
| Other Renewable..... | 1,467,594 | 1,583,818 | 1,512,071 | .3 | 3.7 | 3.4 | 3.2 |
| Other..... | W | W | 161 | W | W | W | .0 |
| Total Industry..... | 39,746,102 | 46,033,562 | 47,192,036 | 1.9 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|---------|--|
| Arkansas | | | | |
| Coal (2001 cents per million Btu) | 188.7 | 157.5 | 87.5 | -8.2 |
| Average heat value (Btu per pound) | 8,724 | 8,703 | 8,708 | * |
| Average sulfur Content(percent) | .3 | .3 | .3 | -1.6 |
| Petroleum (2001 cents per million Btu) | 548.8 | 474.3 | 626.4 | 1.5 |
| Average heat value (Btu per gallon) | 137,215 | 139,078 | 141,070 | .3 |
| Gas (2001 cents per million Btu) | 174.9 | 258.5 | 429.0 | 10.5 |
| Average heat value (Btu per cubic foot) | 1025.1 | 1023.7 | 1034.7 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Arkansas | | | | |
| Sulfur Dioxide | | | | |
| Coal | 67 | 96 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 3 | 4 | NA | NA |
| Total | 70 | 100 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 80 | 48 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 4 | 5 | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 85 | 55 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 22,701 | 26,751 | 27,966 | 2.3 |
| Petroleum | 46 | 102 | 791 | 37.3 |
| Gas | 2,297 | 2,510 | 1,691 | -3.3 |
| Other | 2 | 0 | 0 | -100.0 |
| Total | 25,045 | 29,364 | 30,449 | 2.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Arkansas | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 10,440 | 12,934 | 15,104 | 4.2 | 36.7 | 35.8 | 36.2 |
| Commercial..... | 6,177 | 7,442 | 9,153 | 4.5 | 21.7 | 20.6 | 21.9 |
| Industrial..... | 11,251 | 15,139 | 16,734 | 4.5 | 39.5 | 41.9 | 40.1 |
| Other..... | 583 | 621 | 741 | 2.7 | 2.0 | 1.7 | 1.8 |
| Total..... | 28,451 | 36,137 | 41,732 | 4.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 986 | 1,053 | 1,165 | 1.9 | 45.3 | 45.2 | 46.2 |
| Commercial..... | 501 | 525 | 567 | 1.4 | 23.0 | 22.5 | 22.4 |
| Industrial..... | 644 | 708 | 741 | 1.6 | 29.6 | 30.4 | 29.4 |
| Other..... | 45 | 43 | 51 | 1.4 | 2.1 | 1.8 | 2.0 |
| Total..... | 2,177 | 2,330 | 2,524 | 1.7 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.45 | 8.14 | 7.72 | -2.2 | NA | NA | NA |
| Commercial..... | 8.11 | 7.06 | 6.19 | -3.0 | NA | NA | NA |
| Industrial..... | 5.72 | 4.68 | 4.43 | -2.8 | NA | NA | NA |
| Other..... | 7.72 | 6.89 | 6.91 | -1.2 | NA | NA | NA |
| Total..... | 7.65 | 6.45 | 6.05 | -2.6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Arkansas | | | | | | |
| Number of Entities..... | 4 | 15 | 0 | 17 | 0 | 36 |
| Number of Retail Customers..... | 813,772 | 159,860 | 0 | 403,312 | 0 | 1,376,944 |
| Retail Sales (thousand megawatthours)..... | 25,831 | 5,357 | 0 | 10,545 | 0 | 41,732 |
| Percentage of Retail Sales..... | 61.90 | 12.84 | .00 | 25.27 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,615 | 300 | 0 | 609 | 0 | 2,524 |
| Percentage of Revenue..... | 63.99 | 11.89 | .00 | 24.12 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.25 | 5.60 | .00 | 5.77 | 0 | 6.05 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| California | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 54,484 | 2 |
| Utility..... | 24,405 | 4 |
| Nonutility..... | 30,079 | 4 |
| Net Generation (megawatthours) | 198,596,086 | 2 |
| Utility..... | 70,132,656 | 14 |
| Nonutility..... | 128,463,430 | 3 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 67,405 | 14 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 432 | 40 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 235,438,767 | 2 |
| Utility Retail Electricity Sales (megawatthours) | 167,862,107 | 3 |
| ESP Retail Electricity Sales (megawatthours)..... | 67,576,660 | 1 |
| Direct Use (megawatthours)..... | 28,296,871 | 2 |
| Average Retail Price (cents/kWh)..... | 11.78 | 2 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------------|----------------|-------------------------------|---------------------|
| California | | | |
| 1. Diablo Canyon..... | Nuclear | Pacific Gas & Electric Co | 2,174 |
| 2. San Onofre | Nuclear | Southern California Edison Co | 2,150 |
| 3. AES Alamos LLC | Other | AES Alamos LLC | 2,083 |
| 4. Pittsburg | Other | Mirant Delta LLC | 1,901 |
| 5. Haynes..... | Gas | Los Angeles City of | 1,570 |
| 6. Ormond Beach..... | Other | Reliant Energy Ormond Bch LLC | 1,500 |
| 7. Castaic..... | Hydro | Los Angeles City of | 1,495 |
| 8. Moss Landing | Other | Duke Energy Moss Landing LLC | 1,478 |
| 9. Redondo Beach..... | Other | AES Redondo Beach LLC | 1,310 |
| 10. Helms Pumped Storage..... | Hydro | Pacific Gas & Electric Co | 1,212 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|-----------|
| California | | | | | |
| A. California DWR-Elec Power Fund..... | 58,900,000 | 20,568,308 | 23,020,839 | 10,252,060 | 5,058,793 |
| B. Southern California Edison Co | 52,033,674 | 17,260,698 | 26,131,155 | 8,115,301 | 526,520 |
| C. Pacific Gas and Electric Co | 46,679,853 | 16,739,422 | 20,698,985 | 8,904,579 | 336,867 |
| D. Los Angeles Dept of Wtr & Pwr..... | 22,377,000 | 7,314,000 | 11,884,000 | 2,645,000 | 534,000 |
| E. Sacramento Municipal Util Dist..... | 9,347,511 | 3,929,563 | 840,525 | 4,497,487 | 79,936 |
| Total | 189,338,038 | 65,811,991 | 82,575,504 | 34,414,427 | 6,536,116 |
| Percentage of Utility Sales..... | 80 | 85 | 82 | 74 | 57 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| California | | | | | | | |
| Petroleum..... | 542 | 560 | 184 | -11.3 | 1.0 | 1.0 | 0.3 |
| Natural Gas..... | 17,828 | 17,902 | 1,637 | -23.3 | 33.2 | 33.1 | 3.0 |
| Dual Fired..... | 6,199 | 5,595 | 4,436 | -3.7 | 11.5 | 10.3 | 8.1 |
| Nuclear..... | 4,310 | 4,746 | 4,324 | .0 | 8.0 | 8.8 | 7.9 |
| Hydroelectric..... | 13,169 | 13,535 | 13,578 | .3 | 24.5 | 25.0 | 24.9 |
| Other Renewables..... | 1,715 | 1,597 | 247 | -19.4 | 3.2 | 2.9 | .5 |
| Total Utility..... | 43,763 | 43,934 | 24,405 | -6.3 | 81.5 | 81.1 | 44.8 |
| Coal..... | 433 | 403 | 363 | -1.9 | .8 | .7 | .7 |
| Petroleum..... | 48 | 46 | 538 | 30.7 | .1 | .1 | 1.0 |
| Natural Gas..... | 2,868 | 4,124 | 21,351 | 25.0 | 5.3 | 7.6 | 39.2 |
| Other Gases..... | 214 | 190 | 281 | 3.1 | .4 | .4 | .5 |
| Dual Fired..... | 1,628 | 814 | 2,380 | 4.3 | 3.0 | 1.5 | 4.4 |
| Hydroelectric..... | 592 | 641 | 483 | -2.2 | 1.1 | 1.2 | .9 |
| Other Renewables..... | 4,141 | 3,995 | 4,681 | 1.4 | 7.7 | 7.4 | 8.6 |
| Other..... | 9 | 9 | 0 | -100.0 | .0 | .0 | .0 |
| Total Nonutility..... | 9,933 | 10,222 | 30,077 | 13.1 | 18.5 | 18.9 | 55.2 |
| Coal..... | 433 | 403 | 363 | -1.9 | .8 | .7 | .7 |
| Petroleum..... | 591 | 606 | 722 | 2.3 | 1.1 | 1.1 | 1.3 |
| Natural Gas..... | 20,696 | 22,026 | 22,988 | 1.2 | 38.5 | 40.7 | 42.2 |
| Other Gases..... | 214 | 190 | 281 | 3.1 | .4 | .4 | .5 |
| Dual Fired..... | 7,827 | 6,409 | 6,816 | -1.5 | 14.6 | 11.8 | 12.5 |
| Nuclear..... | 4,310 | 4,746 | 4,324 | .0 | 8.0 | 8.8 | 7.9 |
| Hydroelectric..... | 13,761 | 14,176 | 14,061 | .2 | 25.6 | 26.2 | 25.8 |
| Other Renewables..... | 5,856 | 5,592 | 4,928 | -1.9 | 10.9 | 10.3 | 9.0 |
| Other..... | 9 | 9 | 0 | -100.0 | .0 | .0 | .0 |
| Total Industry..... | 53,696 | 54,156 | 54,482 | .2 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| California | | | | | | | |
| Petroleum..... | 325,424 | 674,899 | 316,691 | -0.3 | 0.2 | 0.4 | 0.2 |
| Natural Gas..... | 56,609,607 | 30,768,135 | 11,918,703 | -15.9 | 32.0 | 17.6 | 6.0 |
| Nuclear..... | 35,244,336 | 34,096,860 | 33,219,520 | -.7 | 19.9 | 19.5 | 16.7 |
| Hydroelectric..... | 19,205,293 | 44,056,652 | 24,468,153 | 2.7 | 10.8 | 25.1 | 12.3 |
| Other Renewable..... | 7,925,065 | 5,109,501 | 209,589 | -33.2 | 4.5 | 2.9 | .1 |
| Total Utility..... | 119,309,725 | 114,706,047 | 70,132,656 | -5.7 | 67.3 | 65.4 | 35.3 |
| Coal..... | 3,299,510 | 2,528,786 | 2,232,852 | -4.2 | 1.9 | 1.4 | 1.1 |
| Petroleum..... | 1,623,115 | 2,158,070 | 2,738,201 | 6.0 | .9 | 1.2 | 1.4 |
| Natural Gas..... | 32,095,179 | 33,646,043 | 100,013,565 | 13.5 | 18.1 | 19.2 | 50.4 |
| Other Gases..... | 2,714,689 | 3,216,924 | 1,130,501 | -9.3 | 1.5 | 1.8 | .6 |
| Hydroelectric..... | 957,622 | 2,889,127 | 723,940 | -3.1 | .5 | 1.6 | .4 |
| Other Renewable..... | 17,145,407 | 16,089,927 | 21,607,637 | 2.6 | 9.7 | 9.2 | 10.9 |
| Other..... | 10,211 | 28,279 | 16,734 | 5.6 | .0 | .0 | .0 |
| Total Nonutility..... | 57,845,733 | 60,557,155 | 128,463,430 | 9.3 | 32.7 | 34.6 | 64.7 |
| Coal..... | 3,299,510 | 2,528,786 | 2,232,852 | -4.2 | 1.9 | 1.4 | 1.1 |
| Petroleum..... | 1,948,539 | 2,832,969 | 3,054,892 | 5.1 | 1.1 | 1.6 | 1.5 |
| Natural Gas..... | 88,704,786 | 64,414,178 | 111,932,268 | 2.6 | 50.1 | 36.8 | 56.4 |
| Other Gases..... | 2,714,689 | 3,216,924 | 1,130,501 | -9.3 | 1.5 | 1.8 | .6 |
| Nuclear..... | 35,244,336 | 34,096,860 | 33,219,520 | -.7 | 19.9 | 19.5 | 16.7 |
| Hydroelectric..... | 20,162,915 | 46,945,779 | 25,192,093 | 2.5 | 11.4 | 26.8 | 12.7 |
| Other Renewable..... | 25,070,472 | 21,199,428 | 21,817,226 | -1.5 | 14.2 | 12.1 | 11.0 |
| Other..... | 10,211 | 28,279 | 16,734 | 5.6 | .0 | .0 | .0 |
| Total Industry..... | 177,155,458 | 175,263,202 | 198,596,086 | 1.3 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|--------|---------|--|
| California | | | | |
| Petroleum (2001 cents per million Btu)..... | 248.7 | 0.0 | 600.9 | 10.3 |
| Average heat value (Btu per gallon)..... | 144,857 | 0 | 146,958 | .2 |
| Average sulfur Content(percent)..... | * | .0 | 1.1 | 49.2 |
| Gas (2001 cents per million Btu)..... | 310.3 | 280.8 | 928.1 | 12.9 |
| Average heat value (Btu per cubic foot)..... | 1033.4 | 1025.6 | 1010.3 | -.3 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-------------------|--------|--------|--------|--|
| California | | | | |
| Sulfur Dioxide | | | | |
| Coal | 23 | 14 | NA | NA |
| Petroleum | 15 | 38 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 2 | 1 | NA | NA |
| Total | 40 | 53 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 12 | 10 | NA | NA |
| Petroleum | 4 | 7 | NA | NA |
| Gas | 70 | 47 | NA | NA |
| Other | 10 | 10 | NA | NA |
| Total | 96 | 73 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 3,385 | 2,634 | 2,315 | -4.1 |
| Petroleum | 2,075 | 3,229 | 3,466 | 5.9 |
| Gas | 49,715 | 36,159 | 61,521 | 2.4 |
| Other | 102 | 103 | 103 | .1 |
| Total | 55,276 | 42,125 | 67,405 | 2.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| California | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 68,121 | 71,396 | 77,301 | 1.4 | 31.9 | 32.7 | 32.8 |
| Commercial | 80,235 | 83,392 | 100,179 | 2.5 | 37.6 | 38.2 | 42.5 |
| Industrial | 57,090 | 57,683 | 46,473 | -2.3 | 26.8 | 26.4 | 19.7 |
| Other | 8,002 | 5,642 | 11,486 | 4.1 | 3.8 | 2.6 | 4.9 |
| Total | 213,447 | 218,112 | 235,439 | 1.1 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 8,606 | 8,474 | 9,776 | 1.4 | 36.6 | 39.1 | 35.2 |
| Commercial | 9,459 | 8,590 | 12,511 | 3.2 | 40.2 | 39.7 | 45.1 |
| Industrial | 4,943 | 4,209 | 4,559 | -9 | 21.0 | 19.4 | 16.4 |
| Other | 506 | 381 | 894 | 6.5 | 2.1 | 1.8 | 3.2 |
| Total | 23,513 | 21,654 | 27,740 | 1.8 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 12.63 | 11.87 | 12.65 | * | NA | NA | NA |
| Commercial | 11.79 | 10.30 | 12.49 | .6 | NA | NA | NA |
| Industrial | 8.66 | 7.30 | 9.81 | 1.4 | NA | NA | NA |
| Other | 6.32 | 6.76 | 7.78 | 2.3 | NA | NA | NA |
| Total | 11.02 | 9.93 | 11.78 | .8 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|------------|
| California | | | | | | |
| Number of Entities | 6 | 35 | 0 | 4 | 19 | 64 |
| Number of Retail Customers..... | 10,484,187 | 2,930,335 | 0 | 14,017 | 126,124 | 13,554,663 |
| Retail Sales (thousand megawatthours)..... | 109,317 | 58,280 | 0 | 266 | 67,577 | 235,439 |
| Percentage of Retail Sales..... | 46.43 | 24.75 | .00 | .11 | 28.70 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 16,475 | 5,085 | 0 | 21 | 6,160 | 27,740 |
| Percentage of Revenue | 59.39 | 18.33 | .00 | .08 | 22.21 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 15.07 | 8.72 | .00 | 7.83 | 0 | 11.78 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Colorado | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 8,910 | 33 |
| Utility..... | 7,479 | 28 |
| Nonutility..... | 1,431 | 31 |
| Net Generation (megawatthours) | 46,876,013 | 29 |
| Utility..... | 41,957,723 | 27 |
| Nonutility..... | 4,918,290 | 29 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 45,128 | 23 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 435 | 39 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 44,236,038 | 29 |
| Utility Retail Electricity Sales (megawatthours) | 44,236,038 | 29 |
| Direct Use (megawatthours)..... | 392,152 | 34 |
| Average Retail Price (cents/kWh)..... | 6.02 | 38 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-----------------------|----------------------|-------------------------------|---------------------|
| Colorado | | | |
| 1. Craig..... | Gas, Petroleum, 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. Hayden | Petroleum, Gas, Coal | Public Service Co of Colorado | 446 |
| 7. Cabin Creek..... | Hydro | Public Service Co of Colorado | 324 |
| 8. Rawhide | Petroleum, Coal | Platte River Power Authority | 270 |
| 9. Ray D Nixon..... | Petroleum, Gas, Coal | Colorado Springs City of | 268 |
| 10. Manchief..... | Other | Manchief Power Co LLC | 264 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|---------|
| Colorado | | | | | |
| A. Public Service Co of Colorado | 25,125,344 | 7,673,558 | 12,120,508 | 5,102,100 | 229,178 |
| B. Colorado Springs Utilities | 4,231,605 | 1,213,035 | 1,345,243 | 1,484,868 | 188,459 |
| C. UtiliCorp United, Inc..... | 1,557,558 | 517,003 | 587,166 | 372,337 | 81,052 |
| D. Intermountain Rural Elec Assn..... | 1,506,615 | 955,409 | 444,811 | 97,130 | 9,265 |
| E. Fort Collins Utilities | 1,260,905 | 402,468 | 454,210 | 402,036 | 2,191 |
| Total | 33,682,027 | 10,761,473 | 14,951,938 | 7,458,471 | 510,145 |
| Percentage of Utility Sales..... | 76 | 74 | 84 | 68 | 53 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Colorado | | | | | | | |
| Coal..... | 4,955 | 4,961 | 4,981 | 0.1 | 71.1 | 66.5 | 55.9 |
| Petroleum..... | 141 | 141 | 146 | .4 | 2.0 | 1.9 | 1.6 |
| Natural Gas..... | 43 | 154 | 751 | 37.3 | .6 | 2.1 | 8.4 |
| Dual Fired..... | 424 | 423 | 423 | .0 | 6.1 | 5.7 | 4.7 |
| Hydroelectric..... | 1,078 | 1,115 | 1,162 | .8 | 15.5 | 14.9 | 13.0 |
| Other Renewables..... | 0 | 0 | 16 | .0 | .0 | .0 | .2 |
| Total Utility..... | 6,642 | 6,794 | 7,479 | 1.3 | 95.3 | 91.1 | 83.9 |
| Coal..... | W | W | 40 | W | W | W | .5 |
| Petroleum..... | W | W | 2 | W | W | W | .0 |
| Natural Gas..... | 226 | 566 | 1,270 | 21.1 | 3.2 | 7.6 | 14.3 |
| Dual Fired..... | W | W | 30 | W | W | W | .3 |
| Hydroelectric..... | 29 | 30 | 43 | 4.3 | .4 | .4 | .5 |
| Other Renewables..... | W | W | 46 | W | W | W | .5 |
| Total Nonutility..... | 325 | 668 | 1,431 | 17.9 | 4.7 | 8.9 | 16.1 |
| Coal..... | W | W | 5,021 | W | W | W | 56.3 |
| Petroleum..... | W | W | 149 | W | W | W | 1.7 |
| Natural Gas..... | 269 | 720 | 2,021 | 25.1 | 3.9 | 9.7 | 22.7 |
| Dual Fired..... | W | W | 453 | W | W | W | 5.1 |
| Hydroelectric..... | 1,107 | 1,145 | 1,205 | .9 | 15.9 | 15.3 | 13.5 |
| Other Renewables..... | W | W | 62 | W | W | W | .7 |
| Total Industry..... | 6,966 | 7,462 | 8,910 | 2.8 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Colorado | | | | | | | |
| Coal..... | 30,001,882 | 31,952,337 | 35,654,162 | 1.9 | 90.1 | 86.0 | 76.1 |
| Petroleum..... | 39,164 | 15,539 | 158,742 | 16.8 | .1 | .0 | .3 |
| Natural Gas..... | 353,436 | 418,925 | 4,884,010 | 33.9 | 1.1 | 1.1 | 10.4 |
| Hydroelectric..... | 1,504,821 | 1,584,887 | 1,222,045 | -2.3 | 4.5 | 4.3 | 2.6 |
| Other Renewable..... | 0 | 0 | 38,764 | .0 | .0 | .0 | .1 |
| Total Utility..... | 31,899,303 | 33,971,688 | 41,957,723 | 3.1 | 95.8 | 91.5 | 89.5 |
| Coal..... | W | W | 296,866 | W | W | W | .6 |
| Petroleum..... | W | W | 17,488 | W | W | W | .0 |
| Natural Gas..... | 993,752 | 2,780,739 | 4,507,778 | 18.3 | 3.0 | 7.5 | 9.6 |
| Hydroelectric..... | 126,672 | 115,389 | 22,077 | -17.6 | .4 | .3 | .0 |
| Other Renewable..... | 28,173 | 33,084 | 74,080 | 11.3 | .1 | .1 | .2 |
| Total Nonutility..... | 1,396,186 | 3,165,672 | 4,918,290 | 15.0 | 4.2 | 8.5 | 10.5 |
| Coal..... | W | W | 35,951,028 | W | W | W | 76.7 |
| Petroleum..... | W | W | 176,230 | W | W | W | .4 |
| Natural Gas..... | 1,347,188 | 3,199,664 | 9,391,788 | 24.1 | 4.0 | 8.6 | 20.0 |
| Hydroelectric..... | 1,631,493 | 1,700,276 | 1,244,122 | -3.0 | 4.9 | 4.6 | 2.7 |
| Other Renewable..... | 28,173 | 33,084 | 112,844 | 16.7 | .1 | .1 | .2 |
| Total Industry..... | 33,295,489 | 37,137,360 | 46,876,013 | 3.9 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|-------|---------|--|
| Colorado | | | | |
| Coal (2001 cents per million Btu) | 124.7 | 107.6 | 92.2 | -3.3 |
| Average heat value (Btu per pound) | 9,920 | 9,858 | 9,726 | -.2 |
| Average sulfur Content(percent) | .4 | .4 | .4 | * |
| Petroleum (2001 cents per million Btu) | 547.1 | .0 | 721.4 | 3.1 |
| Average heat value (Btu per gallon)..... | 135,383 | 0 | 131,246 | -.3 |
| Gas (2001 cents per million Btu)..... | 244.3 | 219.9 | 375.4 | 4.9 |
| Average heat value (Btu per cubic foot)..... | 999.8 | 998.4 | 1014.8 | .2 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Colorado | | | | |
| Sulfur Dioxide | | | | |
| Coal | 90 | 95 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 0 | * | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 91 | 95 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 126 | 88 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 2 | 3 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 128 | 91 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 32,975 | 34,971 | 39,803 | 2.1 |
| Petroleum | 43 | 27 | 169 | 16.6 |
| Gas..... | 801 | 1,684 | 5,155 | 23.0 |
| Total | 33,818 | 36,682 | 45,128 | 3.3 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Colorado | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 10,216 | 11,871 | 14,470 | 3.9 | 32.1 | 32.0 | 32.7 |
| Commercial..... | 13,898 | 14,239 | 17,890 | 2.8 | 43.7 | 38.4 | 40.4 |
| Industrial..... | 6,849 | 9,947 | 10,918 | 5.3 | 21.5 | 26.8 | 24.7 |
| Other..... | 860 | 1,016 | 958 | 1.2 | 2.7 | 2.7 | 2.2 |
| Total..... | 31,822 | 37,073 | 44,236 | 3.7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 839 | 932 | 1,080 | 2.8 | 38.4 | 39.6 | 40.6 |
| Commercial..... | 914 | 884 | 1,014 | 1.1 | 41.8 | 37.6 | 38.1 |
| Industrial..... | 359 | 453 | 489 | 3.5 | 16.4 | 19.3 | 18.3 |
| Other..... | 75 | 82 | 80 | .8 | 3.4 | 3.5 | 3.0 |
| Total..... | 2,187 | 2,351 | 2,662 | 2.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.22 | 7.85 | 7.47 | -1.1 | NA | NA | NA |
| Commercial..... | 6.58 | 6.21 | 5.67 | -1.6 | NA | NA | NA |
| Industrial..... | 5.24 | 4.55 | 4.48 | -1.7 | NA | NA | NA |
| Other..... | 8.68 | 8.06 | 8.36 | -4 | NA | NA | NA |
| Total..... | 6.87 | 6.34 | 6.02 | -1.5 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Colorado | | | | | | |
| Number of Entities..... | 2 | 30 | 0 | 28 | 0 | 60 |
| Number of Retail Customers..... | 1,337,670 | 367,058 | 0 | 471,987 | 0 | 2,176,715 |
| Retail Sales (thousand megawatthours)..... | 26,683 | 7,980 | 0 | 9,573 | 0 | 44,236 |
| Percentage of Retail Sales..... | 60.32 | 18.04 | .00 | 21.64 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,553 | 476 | 0 | 633 | 0 | 2,662 |
| Percentage of Revenue..... | 58.34 | 17.87 | .00 | 23.79 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.82 | 5.96 | .00 | 6.62 | 0 | 6.02 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Connecticut | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 7,894 | 34 |
| Utility..... | 185 | 46 |
| Nonutility..... | 7,709 | 9 |
| Net Generation (megawatthours) | 30,490,640 | 38 |
| Utility..... | 2,816,826 | 44 |
| Nonutility..... | 27,673,814 | 11 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 10,607 | 40 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 2,189 | 13 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 30,530,550 | 33 |
| Utility Retail Electricity Sales (megawatthours) | 30,526,724 | 33 |
| ESP Retail Electricity Sales (megawatthours)..... | 3,826 | 20 |
| Direct Use (megawatthours)..... | 2,715,229 | 16 |
| Average Retail Price (cents/kWh)..... | 9.62 | 10 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|----------------------------|----------------|-------------------------------|---------------------|
| Connecticut | | | |
| 1. Millstone | Nuclear | Dominion Nuclear Conn Inc | 2,006 |
| 2. Middletown | Other | NRG Middletown Operations Inc | 834 |
| 3. Oyster Creek | Nuclear | AmerGen Energy Co LLC | 605 |
| 4. Bridgeport | Other | Wisvest Connecticut LLC | 562 |
| 5. Bridgeport Energy | Other | Bridgeport Energy LLC | 527 |
| 6. Montville..... | Other | NRG Montville Operations Inc | 496 |
| 7. Lake Road..... | Other | Lake Road Generating Co LP | 464 |
| 8. New Haven Harbor..... | Other | Wisvest Connecticut LLC | 428 |
| 9. Devon | Other | NRG Devon Operations Inc | 355 |
| 10. Norwalk Harbor | Other | NRG Norwalk Harbor Ops Inc | 343 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|---------|
| Connecticut | | | | | |
| A. Connecticut Light & Power Co | 22,921,616 | 9,326,376 | 9,459,756 | 3,849,545 | 285,939 |
| B. United Illuminating Company | 5,724,470 | 2,120,470 | 2,476,000 | 1,082,000 | 46,000 |
| C. Town of Wallingford..... | 599,751 | 196,130 | 204,743 | 177,023 | 21,855 |
| D. City of Groton Dept of Utils..... | 566,979 | 107,008 | 116,814 | 336,719 | 6,438 |
| E. City of Norwich | 327,846 | 113,801 | 128,731 | 57,921 | 27,393 |
| Total | 30,140,662 | 11,863,785 | 12,386,044 | 5,503,208 | 387,625 |
| Percentage of Utility Sales..... | 99 | 99 | 100 | 99 | 70 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Connecticut | | | | | | | |
| Coal..... | 385 | 385 | 0 | -100.0 | 5.1 | 5.5 | 0.0 |
| Petroleum..... | 2,663 | 2,303 | 176 | -26.1 | 35.1 | 33.0 | 2.4 |
| Natural Gas..... | 0 | 338 | 0 | .0 | .0 | 4.8 | .0 |
| Dual Fired..... | 528 | 528 | 0 | -100.0 | 7.0 | 7.6 | .0 |
| Nuclear..... | 3,212 | 2,631 | 0 | -100.0 | 42.3 | 37.7 | .0 |
| Hydroelectric..... | 135 | 136 | 9 | -25.9 | 1.8 | 1.9 | .1 |
| Other Renewables..... | 64 | 0 | 0 | -100.0 | .8 | .0 | .0 |
| Total Utility..... | 6,988 | 6,321 | 185 | -33.2 | 92.0 | 90.5 | 2.5 |
| Coal..... | W | W | 555 | W | W | W | 7.6 |
| Petroleum..... | W | W | 1,153 | W | W | W | 15.8 |
| Natural Gas..... | W | W | 858 | W | W | W | 11.8 |
| Dual Fired..... | 186 | 155 | 2,137 | 31.2 | 2.4 | 2.2 | 29.3 |
| Nuclear..... | 0 | 0 | 2,006 | .0 | .0 | .0 | 27.5 |
| Hydroelectric..... | 21 | 21 | 136 | 23.2 | .3 | .3 | 1.9 |
| Other Renewables..... | 140 | 241 | 260 | 7.1 | 1.9 | 3.5 | 3.6 |
| Total Nonutility..... | 604 | 661 | 7,104 | 31.5 | 8.0 | 9.5 | 97.5 |
| Coal..... | W | W | 555 | W | W | W | 7.6 |
| Petroleum..... | W | W | 1,328 | W | W | W | 18.2 |
| Natural Gas..... | W | W | 858 | W | W | W | 11.8 |
| Dual Fired..... | 714 | 683 | 2,137 | 13.0 | 9.4 | 9.8 | 29.3 |
| Nuclear..... | 3,212 | 2,631 | 2,006 | -5.1 | 42.3 | 37.7 | 27.5 |
| Hydroelectric..... | 156 | 157 | 145 | -.8 | 2.1 | 2.2 | 2.0 |
| Other Renewables..... | 205 | 241 | 260 | 2.7 | 2.7 | 3.5 | 3.6 |
| Total Industry..... | 7,592 | 6,981 | 7,289 | -.5 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Connecticut | | | | | | | |
| Coal..... | 2,148,078 | 2,367,889 | 0 | -100.0 | 7.4 | 11.7 | 0.0 |
| Petroleum..... | 5,297,424 | 5,255,050 | 11,032 | -49.6 | 18.1 | 26.0 | .0 |
| Natural Gas..... | 203,183 | 958,819 | 0 | -100.0 | .7 | 4.7 | .0 |
| Nuclear..... | 16,770,708 | 6,225,233 | 2,629,741 | -18.6 | 57.4 | 30.8 | 8.6 |
| Hydroelectric..... | 359,949 | 530,195 | 29,065 | -24.4 | 1.2 | 2.6 | .1 |
| Other Renewable..... | 374,302 | 436,552 | 146,988 | -9.9 | 1.3 | 2.2 | .5 |
| Total Utility..... | 25,153,644 | 15,773,738 | 2,816,826 | -21.6 | 86.1 | 78.0 | 9.2 |
| Coal..... | W | W | 3,735,782 | W | W | W | 12.3 |
| Petroleum..... | 186,417 | 140,294 | 5,161,900 | 44.6 | .6 | .7 | 16.9 |
| Natural Gas..... | 1,268,642 | 990,424 | 4,088,225 | 13.9 | 4.3 | 4.9 | 13.4 |
| Other Gases..... | 2,819 | 64 | 1,498 | -6.8 | .0 | .0 | .0 |
| Nuclear..... | 0 | 0 | 12,798,026 | .0 | .0 | .0 | 42.0 |
| Hydroelectric..... | W | W | 257,308 | W | W | W | .8 |
| Other Renewable..... | 962,874 | 1,636,317 | 1,631,076 | 6.0 | 3.3 | 8.1 | 5.3 |
| Total Nonutility..... | 4,057,735 | 4,437,659 | 27,673,814 | 23.8 | 13.9 | 22.0 | 90.8 |
| Coal..... | W | W | 3,735,782 | W | W | W | 12.3 |
| Petroleum..... | 5,483,841 | 5,395,344 | 5,172,932 | -6 | 18.8 | 26.7 | 17.0 |
| Natural Gas..... | 1,471,825 | 1,949,243 | 4,088,225 | 12.0 | 5.0 | 9.6 | 13.4 |
| Other Gases..... | 2,819 | 64 | 1,498 | -6.8 | .0 | .0 | .0 |
| Nuclear..... | 16,770,708 | 6,225,233 | 15,427,767 | -9 | 57.4 | 30.8 | 50.6 |
| Hydroelectric..... | W | W | 286,373 | W | W | W | .9 |
| Other Renewable..... | 1,337,176 | 2,072,869 | 1,778,064 | 3.2 | 4.6 | 10.3 | 5.8 |
| Total Industry..... | 29,211,379 | 20,211,397 | 30,490,640 | .5 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|------|--|
| Connecticut | | | | |
| Coal (2001 cents per million Btu)..... | 222.4 | 200.3 | 0.0 | -100.0 |
| Average heat value (Btu per pound)..... | 13,167 | 13,100 | 0 | -100.0 |
| Average sulfur Content(percent)..... | .6 | .5 | .0 | -100.0 |
| Petroleum (2001 cents per million Btu)..... | 275.1 | 339.8 | .0 | -100.0 |
| Average heat value (Btu per gallon)..... | 150,850 | 153,018 | 0 | -100.0 |
| Average sulfur Content(percent)..... | .9 | .8 | .0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 303.5 | 283.8 | .0 | -100.0 |
| Average heat value (Btu per cubic foot)..... | 1030.7 | 1018.9 | .0 | -100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--------------------|-------|--------|--------|--|
| Connecticut | | | | |
| Sulfur Dioxide | | | | |
| Coal | 10 | 12 | NA | NA |
| Petroleum | 27 | 27 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 1 | * | NA | NA |
| Total | 38 | 39 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 11 | 9 | NA | NA |
| Petroleum | 5 | 7 | NA | NA |
| Gas..... | 1 | 2 | NA | NA |
| Other..... | 4 | 4 | NA | NA |
| Total | 21 | 22 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 3,817 | 4,112 | 3,803 | * |
| Petroleum | 4,876 | 5,114 | 4,537 | -0.8 |
| Gas..... | 746 | 1,134 | 1,978 | 11.4 |
| Other..... | 173 | 297 | 289 | 5.9 |
| Total | 9,613 | 10,657 | 10,607 | 1.1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Connecticut | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 10,496 | 10,943 | 11,965 | 1.5 | 38.7 | 38.5 | 39.2 |
| Commercial..... | 10,485 | 11,172 | 12,442 | 1.9 | 38.6 | 39.3 | 40.8 |
| Industrial | 5,780 | 5,928 | 5,572 | -4 | 21.3 | 20.9 | 18.3 |
| Other | 367 | 374 | 552 | 4.6 | 1.3 | 1.3 | 1.8 |
| Total | 27,127 | 28,417 | 30,531 | 1.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,326 | 1,381 | 1,305 | -2 | 42.7 | 44.1 | 44.4 |
| Commercial..... | 1,180 | 1,204 | 1,152 | -3 | 38.0 | 38.5 | 39.2 |
| Industrial | 542 | 488 | 425 | -2.7 | 17.4 | 15.6 | 14.5 |
| Other | 58 | 56 | 55 | -6 | 1.9 | 1.8 | 1.9 |
| Total | 3,106 | 3,130 | 2,937 | -6 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.63 | 12.62 | 10.91 | -1.6 | NA | NA | NA |
| Commercial..... | 11.25 | 10.78 | 9.26 | -2.1 | NA | NA | NA |
| Industrial | 9.38 | 8.23 | 7.62 | -2.3 | NA | NA | NA |
| Other | 15.88 | 15.03 | 10.00 | -5.0 | NA | NA | NA |
| Total | 11.45 | 11.01 | 9.62 | -1.9 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|--------|---------|-------------|--------------------------|-----------|
| Connecticut | | | | | | |
| Number of Entities | 3 | 7 | 0 | 0 | 1 | 11 |
| Number of Retail Customers..... | 1,473,559 | 66,902 | 0 | 0 | 733 | 1,541,194 |
| Retail Sales (thousand megawatthours)..... | 28,670 | 1,856 | 0 | 0 | 4 | 30,531 |
| Percentage of Retail Sales..... | 93.91 | 6.08 | .00 | .00 | .01 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 2,794 | 143 | 0 | 0 | 0 | 2,937 |
| Percentage of Revenue | 95.13 | 4.86 | .00 | .00 | .01 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 9.75 | 7.69 | .00 | .00 | 0 | 9.62 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Delaware | | |
| North American Electric Reliability Council (NERC) Region(s) | | MACC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 2,701 | 46 |
| Utility..... | 184 | 47 |
| Nonutility..... | 2,517 | 22 |
| Net Generation (megawatthours) | 6,807,686 | 48 |
| Utility..... | 1,872,053 | 45 |
| Nonutility..... | 4,935,633 | 28 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 6,184 | 44 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,163 | 5 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 10,664,879 | 43 |
| Utility Retail Electricity Sales (megawatthours) | 10,460,023 | 41 |
| ESP Retail Electricity Sales (megawatthours) | 204,856 | 16 |
| Direct Use (megawatthours)..... | 400,276 | 33 |
| Average Retail Price (cents/kWh)..... | 7.01 | 19 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------|------------------------|-----------------------------|---------------------|
| Delaware | | | |
| 1. Indian River | Petroleum, Other, Coal | Indian River Operations Inc | 784 |
| 2. Edge Moor | Other | Conectiv Delmarva Gen Inc | 717 |
| 3. Hay Road | Other | Conectiv Delmarva Gen Inc | 515 |
| 4. Delaware City | Petroleum, Gas, Other | Motiva Enterprises LLC | 407 |
| 5. McKee Run | Gas, Petroleum | Dover City of | 136 |
| 6. Christiana | Other | Conectiv Delmarva Gen Inc | 45 |
| 7. Van Sant..... | Petroleum, Gas | Dover City of | 39 |
| 8. Delaware City 10..... | Other | Conectiv Delmarva Gen Inc | 16 |
| 9. West Station..... | Other | Conectiv Delmarva Gen Inc | 15 |
| 10. R Madison | Other | Conectiv Delmarva Gen Inc | 11 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|--------|
| Delaware | | | | | |
| A. Delmarva Power & Light Company | 8,018,347 | 2,610,387 | 2,902,151 | 2,463,258 | 42,551 |
| B. Delaware Electric Coop, Inc | 832,136 | 692,916 | 123,177 | 10,317 | 5,726 |
| C. City of Dover | 720,924 | 164,732 | 202,877 | 344,814 | 8,501 |
| D. City of Newark | 373,103 | 88,520 | 65,464 | 219,119 | 0 |
| E. City of Milford..... | 170,335 | 46,148 | 47,952 | 73,526 | 2,709 |
| Total | 10,114,845 | 3,602,703 | 3,341,621 | 3,111,034 | 59,487 |
| Percentage of Utility Sales..... | 95 | 96 | 92 | 96 | 96 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Delaware | | | | | | | |
| Coal..... | 931 | 910 | 0 | -100.0 | 41.2 | 37.6 | 0.0 |
| Petroleum..... | 122 | 124 | 9 | -25.5 | 5.4 | 5.1 | .3 |
| Natural Gas..... | 224 | 399 | 0 | -100.0 | 9.9 | 16.5 | .0 |
| Dual Fired..... | 805 | 806 | 175 | -15.6 | 35.7 | 33.3 | 6.5 |
| Total Utility..... | 2,082 | 2,239 | 184 | -23.6 | 92.2 | 92.5 | 6.8 |
| Coal..... | W | W | 1,034 | W | W | W | 38.3 |
| Petroleum..... | 135 | 134 | 968 | 24.4 | 6.0 | 5.5 | 35.8 |
| Natural Gas..... | W | W | 515 | W | W | W | 19.1 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 177 | 182 | 2,517 | 34.3 | 7.8 | 7.5 | 93.2 |
| Coal..... | W | W | 1,034 | W | W | W | 38.3 |
| Petroleum..... | 257 | 258 | 977 | 16.0 | 11.4 | 10.7 | 36.2 |
| Natural Gas..... | W | W | 515 | W | W | W | 19.1 |
| Dual Fired..... | W | W | 175 | W | W | W | 6.5 |
| Total Industry..... | 2,259 | 2,421 | 2,701 | 2.0 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------------|------------------|------------------|--|-----------------------|-----------------------|-----------------------|
| Delaware | | | | | | | |
| Coal..... | 3,813,594 | 4,225,125 | 1,626,254 | -9.0 | 54.6 | 47.7 | 23.9 |
| Petroleum..... | 1,829,938 | 1,188,294 | 209,088 | -21.4 | 26.2 | 13.4 | 3.1 |
| Natural Gas..... | 623,960 | 2,708,434 | 36,711 | -27.0 | 8.9 | 30.6 | .5 |
| Total Utility..... | 6,267,492 | 8,121,853 | 1,872,053 | -12.6 | 89.7 | 91.7 | 27.5 |
| Coal..... | W | W | 1,742,253 | W | W | W | 25.6 |
| Petroleum..... | W | W | 1,497,544 | W | W | W | 22.0 |
| Natural Gas..... | W | W | 1,538,775 | W | W | W | 22.6 |
| Other Gases..... | W | W | 157,061 | W | W | W | 2.3 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 716,793 | 732,595 | 4,935,633 | 23.9 | 10.3 | 8.3 | 72.5 |
| Coal..... | W | W | 3,368,507 | W | W | W | 49.5 |
| Petroleum..... | W | W | 1,706,632 | W | W | W | 25.1 |
| Natural Gas..... | W | W | 1,575,486 | W | W | W | 23.1 |
| Other Gases..... | W | W | 157,061 | W | W | W | 2.3 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 6,984,285 | 8,854,448 | 6,807,686 | -3 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Delaware | | | | |
| Coal (2001 cents per million Btu) | 198.0 | 167.1 | 216.9 | 1.0 |
| Average heat value (Btu per pound) | 13,064 | 13,020 | 12,572 | -4 |
| Average sulfur Content(percent) | 1.0 | 1.0 | .7 | -4.6 |
| Petroleum (2001 cents per million Btu) | 276.1 | 336.7 | 380.5 | 3.6 |
| Average heat value (Btu per gallon)..... | 150,760 | 151,901 | 152,515 | .1 |
| Average sulfur Content(percent) | 1.1 | .8 | .8 | -3.2 |
| Gas (2001 cents per million Btu)..... | 296.8 | 317.1 | 427.2 | 4.1 |
| Average heat value (Btu per cubic foot..... | 1037.0 | 1034.2 | 1032.0 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|-------|-------|-------|--|
| Delaware | | | | |
| Sulfur Dioxide | | | | |
| Coal | 33 | 38 | NA | NA |
| Petroleum | 26 | 19 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | * | 0 | NA | NA |
| Total | 58 | 57 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 16 | 15 | NA | NA |
| Petroleum | 4 | 2 | NA | NA |
| Gas..... | 2 | 1 | NA | NA |
| Total | 21 | 18 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 4,580 | 4,956 | 3,536 | -2.8 |
| Petroleum | 2,954 | 1,508 | 1,563 | -6.8 |
| Gas..... | 643 | 1,542 | 1,085 | 6.0 |
| Total | 8,177 | 8,005 | 6,184 | -3.1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|--------|--|-----------------------|-----------------------|-----------------------|
| Delaware | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 2,786 | 3,271 | 3,734 | 3.3 | 32.6 | 33.9 | 35.0 |
| Commercial..... | 2,445 | 2,911 | 3,633 | 4.5 | 28.7 | 30.2 | 34.1 |
| Industrial..... | 3,248 | 3,399 | 3,236 | * | 38.1 | 35.3 | 30.3 |
| Other..... | 53 | 59 | 62 | 1.8 | .6 | .6 | .6 |
| Total..... | 8,532 | 9,641 | 10,665 | 2.5 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 275 | 307 | 321 | 1.7 | 42.2 | 44.2 | 43.0 |
| Commercial..... | 196 | 214 | 254 | 2.9 | 30.0 | 30.7 | 33.9 |
| Industrial..... | 175 | 167 | 164 | -7 | 26.8 | 24.0 | 22.0 |
| Other..... | 7 | 7 | 9 | 3.3 | 1.0 | 1.1 | 1.2 |
| Total..... | 652 | 695 | 748 | 1.5 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.88 | 9.40 | 8.61 | -1.5 | NA | NA | NA |
| Commercial..... | 8.00 | 7.34 | 6.98 | -1.5 | NA | NA | NA |
| Industrial..... | 5.37 | 4.91 | 5.08 | -6 | NA | NA | NA |
| Other..... | 12.34 | 12.61 | 14.17 | 1.5 | NA | NA | NA |
| Total..... | 7.64 | 7.21 | 7.01 | -9 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| Delaware | | | | | | |
| Number of Entities..... | 1 | 9 | 0 | 1 | 5 | 16 |
| Number of Retail Customers..... | 272,936 | 51,364 | 0 | 59,919 | 129 | 384,348 |
| Retail Sales (thousand megawatthours)..... | 8,018 | 1,610 | 0 | 832 | 205 | 10,665 |
| Percentage of Retail Sales..... | 75.18 | 15.09 | .00 | 7.80 | 1.92 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 543 | 125 | 0 | 71 | 8 | 748 |
| Percentage of Revenue..... | 72.66 | 16.75 | .00 | 9.50 | 1.10 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.78 | 7.78 | .00 | 8.54 | 0 | 7.01 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-----------|-----------|
| District of Columbia | | |
| North American Electric Reliability Council (NERC) Region(s) | | MAAC |
| Primary Energy Source | | Petroleum |
| Net Summer Capability (megawatts)..... | 806 | 51 |
| Nonutility..... | 806 | 39 |
| Net Generation (megawatthours)..... | 123,239 | 51 |
| Nonutility..... | 123,239 | 48 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 176 | 50 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 2,879 | 9 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 9,409,760 | 47 |
| Utility Retail Electricity Sales (megawatthours) | 8,566,248 | 47 |
| ESP Retail Electricity Sales (megawatthours)..... | 843,512 | 13 |
| Direct Use (megawatthours)..... | -3,186 | 45 |
| Average Retail Price (cents/kWh)..... | 7.87 | 12 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-----------------------------|----------------|-------------------------|---------------------|
| District of Columbia | | | |
| 1. Benning | Other | Potomac Power Resources | 550 |
| 2. Buzzard Point..... | Other | Potomac Power Resources | 256 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| District of Columbia | | | | | |
| A. Potomac Electric Power Company | 8,566,248 | 1,676,457 | 6,460,043 | 279,730 | 150,018 |
| B. PEPCO Energy Services, Inc | 843,512 | 0 | 843,512 | 0 | 0 |
| C. Total | 9,409,760 | 1,676,457 | 7,303,555 | 279,730 | 150,018 |
| D. Percentage of Utility Sales..... | 100 | 100 | 100 | 100 | 100 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
 (Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------|------------|------------|--|-----------------------|-----------------------|-----------------------|
| District of Columbia | | | | | | | |
| Petroleum..... | 806 | 806 | 0 | -100.0 | 99.7 | 100.0 | 0.0 |
| Total Utility..... | 806 | 806 | 0 | -100.0 | 99.7 | 100.0 | .0 |
| Coal..... | W | W | 0 | W | W | W | .0 |
| Petroleum..... | W | W | 806 | W | W | W | 100.0 |
| Total Nonutility..... | 3 | 0 | 806 | 89.0 | .3 | .0 | 100.0 |
| Coal..... | W | W | 0 | W | W | W | .0 |
| Petroleum..... | W | W | 806 | W | W | W | 100.0 |
| Total Industry..... | 809 | 806 | 806 | .0 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
 (Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|----------------|----------------|--|-----------------------|-----------------------|-----------------------|
| District of Columbia | | | | | | | |
| Petroleum..... | 73,991 | 109,809 | 0 | -100.0 | 100.0 | 100.0 | 0.0 |
| Total Utility..... | 73,991 | 109,809 | 0 | -100.0 | 100.0 | 100.0 | .0 |
| Petroleum..... | 0 | 0 | 123,239 | .0 | .0 | .0 | 100.0 |
| Total Nonutility..... | 0 | 0 | 123,239 | .0 | .0 | .0 | 100.0 |
| Petroleum..... | 73,991 | 109,809 | 123,239 | 5.8 | 100.0 | 100.0 | 100.0 |
| Total Industry..... | 73,991 | 109,809 | 123,239 | 5.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|------|--|
| District of Columbia | | | | |
| Petroleum (2001 cents per million Btu)..... | 400.0 | 396.4 | 0.0 | -100.0 |
| Average heat value (Btu per gallon)..... | 142,902 | 143,263 | 0 | -100.0 |
| Average sulfur Content(percent)..... | .9 | 1.0 | .0 | -100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001

(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------------|------|------|------|--|
| District of Columbia | | | | |
| Petroleum | 1 | 1 | NA | NA |
| Total | 1 | 1 | NA | NA |
| Petroleum | * | * | NA | NA |
| Total | * | * | NA | NA |
| Petroleum | 125 | 145 | 176 | 3.9 |
| Total | 125 | 145 | 176 | 3.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|-------|--|-----------------------|-----------------------|-----------------------|
| District of Columbia | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 1,488 | 1,614 | 1,676 | 1.3 | 14.8 | 15.9 | 17.8 |
| Commercial | 5,227 | 7,905 | 7,304 | 3.8 | 52.0 | 78.0 | 77.6 |
| Industrial | 2,987 | 252 | 280 | -23.1 | 29.7 | 2.5 | 3.0 |
| Other | 341 | 366 | 150 | -8.7 | 3.4 | 3.6 | 1.6 |
| Total | 10,043 | 10,137 | 9,410 | -7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 112 | 131 | 131 | 1.8 | 15.1 | 16.8 | 17.7 |
| Commercial | 412 | 613 | 582 | 3.9 | 55.5 | 78.5 | 78.6 |
| Industrial | 193 | 11 | 13 | -25.6 | 26.1 | 1.5 | 1.8 |
| Other | 24 | 25 | 14 | -6.1 | 3.3 | 3.1 | 1.9 |
| Total | 742 | 780 | 740 | * | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 7.54 | 8.14 | 7.83 | .4 | NA | NA | NA |
| Commercial | 7.88 | 7.75 | 7.96 | .1 | NA | NA | NA |
| Industrial | 6.48 | 4.57 | 4.81 | -3.3 | NA | NA | NA |
| Other | 7.11 | 6.71 | 9.17 | 2.9 | NA | NA | NA |
| Total | 7.39 | 7.70 | 7.87 | .7 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| District of Columbia | | | | | | |
| Number of Entities | 1 | 0 | 0 | 0 | 1 | 2 |
| Number of Retail Customers | 221,184 | 0 | 0 | 0 | 1,083 | 222,267 |
| Retail Sales (thousand megawatthours) | 8,566 | 0 | 0 | 0 | 844 | 9,410 |
| Percentage of Retail Sales | 91.04 | .00 | .00 | .00 | 8.96 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 703 | 0 | 0 | 0 | 37 | 740 |
| Percentage of Revenue | 94.96 | .00 | .00 | .00 | 5.04 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 8.20 | .00 | .00 | .00 | 0 | 7.87 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Florida | | |
| North American Electric Reliability Council (NERC) Region(s) | | FRCC/SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 42,805 | 3 |
| Utility..... | 38,240 | 2 |
| Nonutility..... | 4,566 | 13 |
| Net Generation (megawatthours) | 190,945,341 | 4 |
| Utility..... | 170,966,177 | 2 |
| Nonutility..... | 19,979,164 | 12 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 129,792 | 2 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 2,406 | 12 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 199,698,300 | 3 |
| Utility Retail Electricity Sales (megawatthours) | 199,698,300 | 2 |
| Direct Use (megawatthours)..... | 6,240,111 | 7 |
| Average Retail Price (cents/kWh)..... | 7.70 | 15 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------|--------------------------|----------------------------|---------------------|
| Florida | | | |
| 1. Crystal River..... | Petroleum, Nuclear, Coal | Florida Power Corp | 3,136 |
| 2. Martin..... | Petroleum, Gas | Florida Power & Light Co | 2,720 |
| 3. Turkey Point..... | Gas, Petroleum, Nuclear | Florida Power & Light Co | 2,210 |
| 4. Big Bend..... | Petroleum, Coal | Tampa Electric Co | 1,851 |
| 5. Lauderdale..... | Petroleum, Gas | Florida Power & Light Co | 1,694 |
| 6. St Lucie..... | Nuclear | Florida Power & Light Co | 1,678 |
| 7. Port Everglades..... | Gas, Petroleum | Florida Power & Light Co | 1,662 |
| 8. Manatee..... | Petroleum | Florida Power & Light Co | 1,625 |
| 9. Seminole..... | Petroleum, Coal | Seminole Electric Coop Inc | 1,316 |
| 10. St Johns River..... | Petroleum, Coal | JEA | 1,252 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|-----------|
| Florida | | | | | |
| A. Florida Power & Light Company | 90,495,128 | 47,737,017 | 38,079,744 | 4,103,798 | 574,569 |
| B. Florida Power Corporation | 35,262,906 | 17,603,735 | 11,060,652 | 3,872,340 | 2,726,179 |
| C. Tampa Electric Company | 16,976,044 | 7,594,089 | 5,685,302 | 2,328,706 | 1,367,947 |
| D. JEA..... | 11,279,657 | 4,787,909 | 3,573,562 | 2,808,813 | 109,373 |
| E. Gulf Power Company | 10,173,244 | 4,716,404 | 3,417,427 | 2,018,206 | 21,207 |
| Total | 164,186,979 | 82,439,154 | 61,816,687 | 15,131,863 | 4,799,275 |
| Percentage of Utility Sales..... | 82 | 81 | 84 | 80 | 86 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Florida | | | | | | | |
| Coal..... | 10,034 | 10,763 | 10,783 | 0.8 | 28.3 | 26.4 | 25.2 |
| Petroleum..... | 5,586 | 5,802 | 5,700 | .2 | 15.8 | 14.2 | 13.3 |
| Natural Gas..... | 1,980 | 3,557 | 3,630 | 7.0 | 5.6 | 8.7 | 8.5 |
| Dual Fired..... | 11,933 | 12,854 | 14,177 | 1.9 | 33.7 | 31.5 | 33.1 |
| Nuclear..... | 3,830 | 3,876 | 3,898 | .2 | 10.8 | 9.5 | 9.1 |
| Hydroelectric..... | 47 | 47 | 47 | .0 | .1 | .1 | .1 |
| Other Renewables..... | 0 | 0 | 5 | .0 | .0 | .0 | .0 |
| Total Utility..... | 33,411 | 36,898 | 38,240 | 1.5 | 94.3 | 90.5 | 89.3 |
| Coal..... | W | W | 806 | W | W | W | 1.9 |
| Petroleum..... | 62 | 39 | 18 | -12.8 | .2 | .1 | .0 |
| Natural Gas..... | 144 | 1,031 | 917 | 22.9 | .4 | 2.5 | 2.1 |
| Dual Fired..... | 363 | 570 | 1,725 | 18.9 | 1.0 | 1.4 | 4.0 |
| Other Renewables..... | W | W | 956 | W | W | W | 2.2 |
| Other..... | W | W | 144 | W | W | W | .3 |
| Total Nonutility..... | 2,003 | 3,877 | 4,565 | 9.6 | 5.7 | 9.5 | 10.7 |
| Coal..... | W | W | 11,589 | W | W | W | 27.1 |
| Petroleum..... | 5,648 | 5,841 | 5,718 | .1 | 15.9 | 14.3 | 13.4 |
| Natural Gas..... | 2,124 | 4,587 | 4,547 | 8.8 | 6.0 | 11.3 | 10.6 |
| Dual Fired..... | 12,296 | 13,424 | 15,901 | 2.9 | 34.7 | 32.9 | 37.1 |
| Nuclear..... | 3,830 | 3,876 | 3,898 | .2 | 10.8 | 9.5 | 9.1 |
| Hydroelectric..... | 47 | 47 | 47 | .0 | .1 | .1 | .1 |
| Other Renewables..... | W | W | 962 | W | W | W | 2.2 |
| Other..... | W | W | 144 | W | W | W | .3 |
| Total Industry..... | 35,414 | 40,775 | 42,805 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Florida | | | | | | | |
| Coal..... | 61,631,012 | 65,782,399 | 63,090,794 | 0.3 | 42.9 | 39.4 | 33.0 |
| Petroleum..... | 28,176,184 | 22,890,565 | 39,075,398 | 3.7 | 19.6 | 13.7 | 20.5 |
| Natural Gas..... | 18,818,019 | 30,781,402 | 36,943,903 | 7.8 | 13.1 | 18.4 | 19.3 |
| Nuclear..... | 25,115,956 | 25,470,291 | 31,583,404 | 2.6 | 17.5 | 15.2 | 16.5 |
| Hydroelectric..... | 235,604 | 215,560 | 147,718 | -5.1 | .2 | .1 | .1 |
| Other Renewable..... | 0 | 0 | 124,960 | .0 | .0 | .0 | .1 |
| Total Utility..... | 133,976,775 | 145,140,217 | 170,966,177 | 2.7 | 93.2 | 86.9 | 89.5 |
| Coal..... | 1,078,641 | 5,074,391 | 5,136,946 | 18.9 | .8 | 3.0 | 2.7 |
| Petroleum..... | 441,602 | 493,948 | 1,504,541 | 14.6 | .3 | .3 | .8 |
| Natural Gas..... | 1,101,597 | 8,453,284 | 6,625,898 | 22.1 | .8 | 5.1 | 3.5 |
| Other Gases..... | 15,178 | 29,307 | 634 | -29.7 | .0 | .0 | .0 |
| Other Renewable..... | 5,211,493 | 5,848,851 | 4,918,322 | -6 | 3.6 | 3.5 | 2.6 |
| Other..... | 1,951,858 | 2,044,941 | 1,792,824 | -9 | 1.4 | 1.2 | .9 |
| Total Nonutility..... | 9,800,367 | 21,944,720 | 19,979,164 | 8.2 | 6.8 | 13.1 | 10.5 |
| Coal..... | 62,709,653 | 70,856,790 | 68,227,740 | .9 | 43.6 | 42.4 | 35.7 |
| Petroleum..... | 28,617,786 | 23,384,513 | 40,579,939 | 4.0 | 19.9 | 14.0 | 21.3 |
| Natural Gas..... | 19,919,616 | 39,234,686 | 43,569,801 | 9.1 | 13.9 | 23.5 | 22.8 |
| Other Gases..... | 15,178 | 29,307 | 634 | -29.7 | .0 | .0 | .0 |
| Nuclear..... | 25,115,956 | 25,470,291 | 31,583,404 | 2.6 | 17.5 | 15.2 | 16.5 |
| Hydroelectric..... | 235,604 | 215,560 | 147,718 | -5.1 | .2 | .1 | .1 |
| Other Renewable..... | 5,211,493 | 5,848,851 | 5,043,282 | -4 | 3.6 | 3.5 | 2.6 |
| Other..... | 1,951,858 | 2,044,941 | 1,792,824 | -9 | 1.4 | 1.2 | .9 |
| Total Industry..... | 143,777,142 | 167,084,937 | 190,945,341 | 3.2 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Florida | | | | |
| Coal (2001 cents per million Btu)..... | 207.8 | 182.3 | 171.8 | -2.1 |
| Average heat value (Btu per pound)..... | 12,370 | 12,193 | 12,146 | -2 |
| Average sulfur Content(percent)..... | 1.7 | 1.6 | 1.5 | -1.0 |
| Petroleum (2001 cents per million Btu)..... | 275.9 | 291.7 | 338.8 | 2.3 |
| Average heat value (Btu per gallon)..... | 151,473 | 173,294 | 196,187 | 2.9 |
| Average sulfur Content(percent)..... | 1.4 | 1.7 | 1.6 | 1.6 |
| Gas (2001 cents per million Btu)..... | 260.0 | 324.6 | 453.2 | 6.4 |
| Average heat value (Btu per cubic foot)..... | 1011.2 | 1008.2 | 1043.7 | .3 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|---------|---------|---------|--|
| Florida | | | | |
| Sulfur Dioxide | | | | |
| Coal | 536 | 428 | NA | NA |
| Petroleum | 200 | 233 | NA | NA |
| Gas..... | 0 | * | NA | NA |
| Other..... | 13 | 15 | NA | NA |
| Total | 749 | 676 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 241 | 227 | NA | NA |
| Petroleum | 39 | 56 | NA | NA |
| Gas..... | 29 | 42 | NA | NA |
| Other..... | 8 | 10 | NA | NA |
| Total | 317 | 335 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 62,912 | 72,182 | 70,318 | 1.2 |
| Petroleum | 24,441 | 20,384 | 35,637 | 4.3 |
| Gas..... | 12,500 | 20,672 | 23,217 | 7.1 |
| Other..... | 601 | 682 | 620 | .3 |
| Total | 100,454 | 113,921 | 129,792 | 2.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| Florida | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 73,189 | 88,315 | 101,377 | 3.7 | 49.8 | 51.4 | 50.8 |
| Commercial..... | 52,620 | 60,988 | 73,950 | 3.8 | 35.8 | 35.5 | 37.0 |
| Industrial | 16,497 | 17,212 | 18,808 | 1.5 | 11.2 | 10.0 | 9.4 |
| Other | 4,704 | 5,317 | 5,563 | 1.9 | 3.2 | 3.1 | 2.8 |
| Total | 147,010 | 171,832 | 199,698 | 3.5 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 6,470 | 7,396 | 8,713 | 3.4 | 55.2 | 57.2 | 56.7 |
| Commercial..... | 3,948 | 4,236 | 5,239 | 3.2 | 33.7 | 32.8 | 34.1 |
| Industrial | 945 | 921 | 1,002 | .6 | 8.1 | 7.1 | 6.5 |
| Other | 366 | 379 | 423 | 1.6 | 3.1 | 2.9 | 2.8 |
| Total | 11,728 | 12,932 | 15,376 | 3.0 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.84 | 8.38 | 8.59 | -.3 | NA | NA | NA |
| Commercial..... | 7.50 | 6.94 | 7.08 | -.6 | NA | NA | NA |
| Industrial | 5.73 | 5.35 | 5.33 | -.8 | NA | NA | NA |
| Other | 7.77 | 7.13 | 7.60 | -.3 | NA | NA | NA |
| Total | 7.98 | 7.53 | 7.70 | -.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| Florida | | | | | | |
| Number of Entities | 5 | 32 | 0 | 16 | 0 | 53 |
| Number of Retail Customers..... | 6,356,181 | 1,159,180 | 0 | 834,198 | 0 | 8,349,559 |
| Retail Sales (thousand megawatthours)..... | 153,632 | 31,566 | 0 | 14,500 | 0 | 199,698 |
| Percentage of Retail Sales..... | 76.93 | 15.81 | .00 | 7.26 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 11,997 | 2,228 | 0 | 1,151 | 0 | 15,376 |
| Percentage of Revenue | 78.02 | 14.49 | .00 | 7.49 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.81 | 7.06 | .00 | 7.94 | 0 | 7.70 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Georgia | | |
| North American Electric Reliability Council (NERC) Region(s) | | SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 29,483 | 8 |
| Utility..... | 24,099 | 5 |
| Nonutility..... | 5,384 | 12 |
| Net Generation (megawatthours) | 118,316,772 | 10 |
| Utility..... | 110,564,676 | 6 |
| Nonutility..... | 7,752,096 | 20 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 78,482 | 11 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,355 | 20 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 117,790,473 | 8 |
| Utility Retail Electricity Sales (megawatthours) | 117,790,473 | 8 |
| Direct Use (megawatthours)..... | 5,597,919 | 8 |
| Average Retail Price (cents/kWh)..... | 6.39 | 27 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Vogtle..... | Nuclear | Georgia Power Co | 2,297 |
| 4. Wansley..... | Petroleum, Coal | Georgia Power Co | 1,832 |
| 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. Rocky Mountain Hydro..... | Hydro | Oglethorpe Power Corp | 848 |
| 9. Hammond..... | Petroleum, Coal | Georgia Power Co | 846 |
| 10. McIntosh..... | Petroleum, Gas, Coal | Savannah Electric & Power Co | 823 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|-----------|
| Georgia | | | | | |
| A. Georgia Power Company | 72,544,819 | 20,119,080 | 26,493,255 | 25,349,477 | 583,007 |
| B. Savannah Electric & Power Co..... | 3,968,733 | 1,658,735 | 1,388,357 | 787,674 | 133,967 |
| C. Jackson Electric Member Corp | 3,451,657 | 1,978,614 | 829,477 | 499,063 | 144,503 |
| D. Cobb Electric Membership Corp | 3,086,869 | 1,890,997 | 874,189 | 191,726 | 129,957 |
| E. North Georgia Elec Member Corp..... | 2,437,001 | 1,295,252 | 437,665 | 685,371 | 18,713 |
| Total | 85,489,079 | 26,942,678 | 30,022,943 | 27,513,311 | 1,010,147 |
| Percentage of Utility Sales..... | 73 | 61 | 79 | 81 | 62 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Georgia | | | | | | | |
| Coal..... | 13,104 | 13,234 | 13,503 | 0.3 | 58.5 | 54.7 | 45.8 |
| Petroleum..... | 1,057 | 1,061 | 991 | -.7 | 4.7 | 4.4 | 3.4 |
| Natural Gas..... | 27 | 33 | 903 | 47.6 | .1 | .1 | 3.1 |
| Dual Fired..... | 655 | 1,410 | 1,225 | 7.2 | 2.9 | 5.8 | 4.2 |
| Nuclear..... | 3,741 | 3,950 | 4,023 | .8 | 16.7 | 16.3 | 13.6 |
| Hydroelectric..... | 2,815 | 3,094 | 3,455 | 2.3 | 12.6 | 12.8 | 11.7 |
| Total Utility..... | 21,399 | 22,782 | 24,099 | 1.3 | 95.5 | 94.2 | 81.7 |
| Coal..... | 125 | 64 | 312 | 10.7 | .6 | .3 | 1.1 |
| Petroleum..... | 146 | 192 | 178 | 2.2 | .7 | .8 | .6 |
| Natural Gas..... | W | W | 1,443 | W | W | W | 4.9 |
| Dual Fired..... | 107 | 400 | 3,029 | 45.0 | .5 | 1.7 | 10.3 |
| Hydroelectric..... | W | W | 10 | W | W | W | .0 |
| Other Renewables..... | W | W | 410 | W | W | W | 1.4 |
| Total Nonutility..... | 1,008 | 1,411 | 5,383 | 20.5 | 4.5 | 5.8 | 18.3 |
| Coal..... | 13,229 | 13,298 | 13,816 | .5 | 59.0 | 55.0 | 46.9 |
| Petroleum..... | 1,203 | 1,254 | 1,168 | -.3 | 5.4 | 5.2 | 4.0 |
| Natural Gas..... | W | W | 2,346 | W | W | W | 8.0 |
| Dual Fired..... | 762 | 1,810 | 4,254 | 21.1 | 3.4 | 7.5 | 14.4 |
| Nuclear..... | 3,741 | 3,950 | 4,023 | .8 | 16.7 | 16.3 | 13.6 |
| Hydroelectric..... | W | W | 3,464 | W | W | W | 11.8 |
| Other Renewables..... | W | W | 410 | W | W | W | 1.4 |
| Total Industry..... | 22,407 | 24,193 | 29,482 | 3.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Georgia | | | | | | | |
| Coal..... | 58,235,454 | 63,230,856 | 73,443,695 | 2.6 | 59.8 | 60.6 | 62.1 |
| Petroleum..... | 128,485 | 292,018 | 275,630 | 8.9 | .1 | .3 | .2 |
| Natural Gas..... | 76,832 | 344,990 | 1,168,337 | 35.3 | .1 | .3 | 1.0 |
| Nuclear..... | 27,996,298 | 29,925,001 | 33,681,769 | 2.1 | 28.8 | 28.7 | 28.5 |
| Hydroelectric..... | 5,342,283 | 4,936,377 | 1,995,245 | -10.4 | 5.5 | 4.7 | 1.7 |
| Total Utility..... | 91,779,352 | 98,729,242 | 110,564,676 | 2.1 | 94.3 | 94.6 | 93.4 |
| Coal..... | 992,500 | 1,005,110 | 1,117,482 | 1.3 | 1.0 | 1.0 | .9 |
| Petroleum..... | 684,919 | 733,870 | 894,905 | 3.0 | .7 | .7 | .8 |
| Natural Gas..... | 652,457 | 673,988 | 2,697,528 | 17.1 | .7 | .6 | 2.3 |
| Other Gases..... | 0 | 124 | 0 | .0 | .0 | .0 | .0 |
| Hydroelectric..... | 56,114 | 52,686 | 31,470 | -6.2 | .1 | .1 | .0 |
| Other Renewable..... | 3,192,885 | 3,125,021 | 3,009,311 | -.7 | 3.3 | 3.0 | 2.5 |
| Other..... | 0 | 0 | 1,401 | .0 | .0 | .0 | .0 |
| Total Nonutility..... | 5,578,875 | 5,590,799 | 7,752,096 | 3.7 | 5.7 | 5.4 | 6.6 |
| Coal..... | 59,227,954 | 64,235,966 | 74,561,177 | 2.6 | 60.8 | 61.6 | 63.0 |
| Petroleum..... | 813,404 | 1,025,888 | 1,170,535 | 4.1 | .8 | 1.0 | 1.0 |
| Natural Gas..... | 729,289 | 1,018,978 | 3,865,865 | 20.4 | .7 | 1.0 | 3.3 |
| Other Gases..... | 0 | 124 | 0 | .0 | .0 | .0 | .0 |
| Nuclear..... | 27,996,298 | 29,925,001 | 33,681,769 | 2.1 | 28.8 | 28.7 | 28.5 |
| Hydroelectric..... | 5,398,397 | 4,989,063 | 2,026,715 | -10.3 | 5.5 | 4.8 | 1.7 |
| Other Renewable..... | 3,192,885 | 3,125,021 | 3,009,311 | -.7 | 3.3 | 3.0 | 2.5 |
| Other..... | 0 | 0 | 1,401 | .0 | .0 | .0 | .0 |
| Total Industry..... | 97,358,227 | 104,320,041 | 118,316,772 | 2.2 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Georgia | | | | |
| Coal (2001 cents per million Btu)..... | 205.6 | 165.4 | 166.1 | -2.3 |
| Average heat value (Btu per pound)..... | 12,039 | 11,581 | 11,754 | -.3 |
| Average sulfur Content(percent)..... | 1.7 | .8 | .8 | -7.8 |
| Petroleum (2001 cents per million Btu)..... | 495.9 | 451.3 | 668.4 | 3.4 |
| Average heat value (Btu per gallon)..... | 140,515 | 140,678 | 138,498 | -.2 |
| Average sulfur Content(percent)..... | 2.1 | .5 | .0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 322.1 | 294.8 | 327.8 | .2 |
| Average heat value (Btu per cubic foot)..... | 1024.4 | 1024.1 | 1024.7 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Georgia | | | | |
| Sulfur Dioxide | | | | |
| Coal | 774 | 479 | NA | NA |
| Petroleum | 2 | 7 | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 10 | 12 | NA | NA |
| Total | 786 | 498 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 183 | 168 | NA | NA |
| Petroleum | 1 | 2 | NA | NA |
| Gas | 1 | 1 | NA | NA |
| Other | 3 | 3 | NA | NA |
| Total | 188 | 174 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 58,767 | 69,596 | 74,675 | 2.7 |
| Petroleum | 897 | 1,119 | 1,363 | 4.8 |
| Gas | 416 | 728 | 2,443 | 21.7 |
| Other | 0 | 2 | 1 | 103.9 |
| Total | 60,081 | 71,446 | 78,482 | 3.0 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| Georgia | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 30,528 | 37,763 | 44,380 | 4.2 | 36.6 | 37.3 | 37.7 |
| Commercial | 23,715 | 29,140 | 37,839 | 5.3 | 28.4 | 28.8 | 32.1 |
| Industrial | 28,197 | 33,175 | 33,941 | 2.1 | 33.8 | 32.8 | 28.8 |
| Other | 952 | 1,229 | 1,631 | 6.2 | 1.1 | 1.2 | 1.4 |
| Total | 83,391 | 101,307 | 117,790 | 3.9 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 2,693 | 3,030 | 3,428 | 2.7 | 42.4 | 44.4 | 45.6 |
| Commercial | 2,028 | 2,189 | 2,503 | 2.4 | 32.0 | 32.1 | 33.3 |
| Industrial | 1,530 | 1,491 | 1,454 | -6 | 24.1 | 21.8 | 19.3 |
| Other | 95 | 115 | 140 | 4.4 | 1.5 | 1.7 | 1.8 |
| Total | 6,346 | 6,824 | 7,524 | 1.9 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 8.82 | 8.02 | 7.72 | -1.5 | NA | NA | NA |
| Commercial | 8.55 | 7.51 | 6.61 | -2.8 | NA | NA | NA |
| Industrial | 5.43 | 4.49 | 4.28 | -2.6 | NA | NA | NA |
| Other | 9.93 | 9.39 | 8.56 | -1.6 | NA | NA | NA |
| Total | 7.61 | 6.74 | 6.39 | -1.9 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Georgia | | | | | | |
| Number of Entities | 2 | 55 | 0 | 41 | 0 | 98 |
| Number of Retail Customers..... | 2,072,394 | 371,585 | 0 | 1,514,170 | 0 | 3,958,149 |
| Retail Sales (thousand megawatthours)..... | 76,514 | 11,938 | 0 | 29,339 | 0 | 117,790 |
| Percentage of Retail Sales..... | 64.96 | 10.13 | .00 | 24.91 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 4,574 | 779 | 0 | 2,170 | 0 | 7,524 |
| Percentage of Revenue | 60.80 | 10.36 | .00 | 28.85 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.98 | 6.53 | .00 | 7.40 | 0 | 6.39 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Hawaii | | |
| North American Electric Reliability Council (NERC) Region(s) | | -- |
| Primary Energy Source | | Petroleum |
| Net Summer Capability (megawatts)..... | 2,292 | 47 |
| Utility..... | 1,622 | 41 |
| Nonutility..... | 670 | 41 |
| Net Generation (megawatthours) | 10,633,095 | 44 |
| Utility..... | 6,383,088 | 40 |
| Nonutility..... | 4,250,007 | 31 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 8,787 | 42 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,368 | 19 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 9,776,449 | 46 |
| Utility Retail Electricity Sales (megawatthours) | 9,776,449 | 44 |
| Direct Use (megawatthours)..... | 462,845 | 31 |
| Average Retail Price (cents/kWh)..... | 14.05 | 1 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Hawaii | Other | AES Hawaii Inc | 180 |
| 5. Kalaeola Cogen..... | Other | Kalaeola Partners LP | 180 |
| 6. Honolulu..... | Petroleum | Hawaiian Electric Co Inc | 100 |
| 7. Port Allen..... | Petroleum | Citizens Utilities Co | 96 |
| 8. H Power | Other | DFO Partnership | 60 |
| 9. Hamakua Energy | Other | Hamakua Energy Partners LP | 47 |
| 10. Puunene Power Plant..... | Other | Hawaiian Com & Sugar Co Ltd | 47 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|--------|
| Hawaii | | | | | |
| A. Hawaiian Electric Company, Inc | 7,276,681 | 1,924,443 | 2,272,900 | 3,036,357 | 42,981 |
| B. Maui Electric Company, Ltd..... | 1,134,072 | 379,440 | 372,431 | 376,674 | 5,527 |
| C. Hawaii Electric Light Co, Inc..... | 959,607 | 361,285 | 370,802 | 223,476 | 4,044 |
| D. Citizens Communications Co..... | 406,089 | 137,264 | 113,170 | 153,387 | 2,268 |
| E. Total..... | 9,776,449 | 2,802,432 | 3,129,303 | 3,789,894 | 54,820 |
| Percentage of Utility Sales..... | 100 | 100 | 100 | 100 | 100 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Hawaii | | | | | | | |
| Petroleum..... | 1,556 | 1,589 | 1,601 | 0.3 | 66.4 | 67.1 | 69.9 |
| Natural Gas..... | 0 | 18 | 15 | .0 | .0 | .8 | .7 |
| Hydroelectric..... | 3 | 3 | 3 | .2 | .1 | .1 | .1 |
| Other Renewables..... | 0 | 0 | 2 | .0 | .0 | .0 | .1 |
| Total Utility..... | 1,560 | 1,610 | 1,622 | .4 | 66.5 | 68.0 | 70.8 |
| Coal..... | W | W | 202 | W | W | W | 8.8 |
| Petroleum..... | W | W | 189 | W | W | W | 8.3 |
| Natural Gas..... | W | W | 61 | W | W | W | 2.7 |
| Other Gases..... | W | W | 9 | W | W | W | .4 |
| Hydroelectric..... | W | W | 22 | W | W | W | 1.0 |
| Other Renewables..... | 266 | 237 | 186 | -3.9 | 11.3 | 10.0 | 8.1 |
| Total Nonutility..... | 785 | 758 | 670 | -1.8 | 33.5 | 32.0 | 29.2 |
| Coal..... | W | W | 202 | W | W | W | 8.8 |
| Petroleum..... | W | W | 1,790 | W | W | W | 78.1 |
| Natural Gas..... | W | W | 76 | W | W | W | 3.3 |
| Other Gases..... | W | W | 9 | W | W | W | .4 |
| Hydroelectric..... | W | W | 25 | W | W | W | 1.1 |
| Other Renewables..... | 266 | 237 | 188 | -3.7 | 11.3 | 10.0 | 8.2 |
| Total Industry..... | 2,345 | 2,368 | 2,292 | -3 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Hawaii | | | | | | | |
| Petroleum..... | 6,851,432 | 6,402,329 | 6,362,846 | -0.8 | 69.6 | 60.2 | 59.8 |
| Hydroelectric..... | 9,823 | 17,866 | 18,132 | 7.0 | .1 | .2 | .2 |
| Other Renewable..... | 0 | 0 | 2,110 | .0 | .0 | .0 | .0 |
| Total Utility..... | 6,861,255 | 6,420,195 | 6,383,088 | -8 | 69.7 | 60.4 | 60.0 |
| Coal..... | W | W | 1,604,763 | W | W | W | 15.1 |
| Petroleum..... | 1,482,771 | 1,560,788 | 1,860,981 | 2.6 | 15.1 | 14.7 | 17.5 |
| Other Gases..... | 62,401 | 60,365 | 37,855 | -5.4 | .6 | .6 | .4 |
| Hydroelectric..... | 51,300 | 86,167 | 82,618 | 5.4 | .5 | .8 | .8 |
| Other Renewable..... | W | W | 663,790 | W | W | W | 6.2 |
| Total Nonutility..... | 2,983,208 | 4,207,699 | 4,250,007 | 4.0 | 30.3 | 39.6 | 40.0 |
| Coal..... | W | W | 1,604,763 | W | W | W | 15.1 |
| Petroleum..... | 8,334,203 | 7,963,117 | 8,223,827 | -.1 | 84.7 | 74.9 | 77.3 |
| Other Gases..... | 62,401 | 60,365 | 37,855 | -5.4 | .6 | .6 | .4 |
| Hydroelectric..... | 61,123 | 104,033 | 100,750 | 5.7 | .6 | 1.0 | .9 |
| Other Renewable..... | W | W | 665,900 | W | W | W | 6.3 |
| Total Industry..... | 9,844,463 | 10,627,894 | 10,633,095 | .9 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Hawaii | | | | |
| Petroleum (2001 cents per million Btu) | 333.5 | 370.6 | 490.3 | 4.4 |
| Average heat value (Btu per gallon) | 149,295 | 148,816 | 149,548 | * |
| Average sulfur Content(percent) | .4 | .4 | .5 | .4 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|-------|-------|-------|--|
| Hawaii | | | | |
| Sulfur Dioxide | | | | |
| Coal | 2 | 4 | NA | NA |
| Petroleum | 28 | 27 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 30 | 31 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 2 | 7 | NA | NA |
| Petroleum | 10 | 9 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 1 | 1 | NA | NA |
| Total | 13 | 17 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 593 | 1,664 | 1,665 | 12.2 |
| Petroleum | 7,356 | 6,962 | 7,025 | -.5 |
| Gas..... | 73 | 73 | 22 | -12.3 |
| Other..... | 78 | 59 | 75 | -.4 |
| Total | 8,099 | 8,758 | 8,787 | .9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|-------|--|-----------------------|-----------------------|-----------------------|
| Hawaii | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 2,438 | 2,676 | 2,802 | 1.6 | 28.1 | 28.5 | 28.7 |
| Commercial..... | 2,356 | 2,761 | 3,129 | 3.2 | 27.2 | 29.4 | 32.0 |
| Industrial..... | 3,811 | 3,884 | 3,790 | -.1 | 44.0 | 41.4 | 38.8 |
| Other..... | 61 | 58 | 55 | -1.2 | .7 | .6 | .6 |
| Total..... | 8,667 | 9,379 | 9,776 | 1.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 303 | 400 | 458 | 4.7 | 32.5 | 33.5 | 33.3 |
| Commercial..... | 283 | 376 | 464 | 5.6 | 30.3 | 31.5 | 33.8 |
| Industrial..... | 341 | 408 | 443 | 2.9 | 36.5 | 34.3 | 32.2 |
| Other..... | 7 | 8 | 10 | 4.2 | .7 | .6 | .7 |
| Total..... | 934 | 1,191 | 1,374 | 4.4 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.44 | 14.94 | 16.34 | 3.1 | NA | NA | NA |
| Commercial..... | 12.02 | 13.60 | 14.81 | 2.3 | NA | NA | NA |
| Industrial..... | 8.94 | 10.51 | 11.68 | 3.0 | NA | NA | NA |
| Other..... | 11.07 | 13.53 | 17.85 | 5.4 | NA | NA | NA |
| Total..... | 10.77 | 12.70 | 14.05 | 3.0 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| Hawaii | | | | | | |
| Number of Entities..... | 3 | 1 | 0 | 0 | 0 | 4 |
| Number of Retail Customers..... | 403,881 | 30,969 | 0 | 0 | 0 | 434,850 |
| Retail Sales (thousand megawatthours)..... | 9,370 | 406 | 0 | 0 | 0 | 9,776 |
| Percentage of Retail Sales..... | 95.85 | 4.15 | .00 | .00 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,279 | 94 | 0 | 0 | 0 | 1,374 |
| Percentage of Revenue..... | 93.13 | 6.87 | .00 | .00 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 13.65 | 23.23 | .00 | .00 | 0 | 14.05 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Idaho | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Hydro |
| Net Summer Capability (megawatts)..... | 3,236 | 43 |
| Utility..... | 2,658 | 38 |
| Nonutility..... | 577 | 42 |
| Net Generation (megawatthours) | 9,346,940 | 45 |
| Utility..... | 6,666,589 | 39 |
| Nonutility..... | 2,680,351 | 36 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 786 | 49 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 9 | 49 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 21,096,017 | 38 |
| Utility Retail Electricity Sales (megawatthours) | 21,096,017 | 38 |
| Direct Use (megawatthours)..... | 9,889 | 44 |
| Average Retail Price (cents/kWh)..... | 4.92 | 49 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 255 |
| 4. Rathdrum..... | Other | Rathdrum Operating Sev Co Inc | 248 |
| 5. Palisades..... | Hydro | U S Bureau of Reclamation | 176 |
| 6. Rathdrum..... | Gas | Avista Corporation | 136 |
| 7. C J Strike | Hydro | Idaho Power Co | 88 |
| 8. American Falls..... | Hydro | Idaho Power Co | 86 |
| 9. Mountain Home | Hydro | Idaho Power Co | 76 |
| 10. Bliss | Hydro | Idaho Power Co | 75 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--------------------------------------|-------------|-------------|------------|------------|--------|
| Idaho | | | | | |
| A. Idaho Power Company | 12,391,914 | 4,117,128 | 4,581,584 | 3,666,994 | 26,208 |
| B. PacifiCorp..... | 3,081,741 | 562,481 | 333,269 | 2,183,829 | 2,162 |
| C. Avista Corporation..... | 3,002,342 | 997,695 | 885,797 | 1,109,868 | 8,982 |
| D. Idaho Falls Power..... | 631,894 | 288,059 | 263,140 | 37,743 | 42,952 |
| E. Kootenai Electric Coop, Inc | 280,744 | 195,365 | 73,472 | 7,598 | 4,309 |
| Total | 19,388,635 | 6,160,728 | 6,137,262 | 7,006,032 | 84,613 |
| Percentage of Utility Sales..... | 92 | 89 | 94 | 96 | 25 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Idaho | | | | | | | |
| Petroleum..... | 56 | 6 | 5 | -22.8 | 2.0 | 0.2 | 0.2 |
| Natural Gas..... | 0 | 136 | 212 | .0 | .0 | 4.6 | 6.6 |
| Hydroelectric..... | 2,302 | 2,412 | 2,441 | .7 | 84.1 | 80.7 | 75.4 |
| Total Utility..... | 2,357 | 2,553 | 2,659 | 1.3 | 86.1 | 85.5 | 82.2 |
| Coal..... | W | W | 15 | W | W | W | .5 |
| Natural Gas..... | W | W | 269 | W | W | W | 8.3 |
| Hydroelectric..... | 222 | 253 | 197 | -1.3 | 8.1 | 8.5 | 6.1 |
| Other Renewables..... | W | W | 81 | W | W | W | 2.5 |
| Other..... | W | W | 15 | W | W | W | .5 |
| Total Nonutility..... | 379 | 434 | 577 | 4.8 | 13.9 | 14.5 | 17.8 |
| Coal..... | W | W | 15 | W | W | W | .5 |
| Petroleum..... | 56 | 6 | 5 | -22.8 | 2.0 | .2 | .2 |
| Natural Gas..... | W | W | 481 | W | W | W | 14.9 |
| Hydroelectric..... | 2,524 | 2,664 | 2,638 | .5 | 92.2 | 89.2 | 81.5 |
| Other Renewables..... | W | W | 81 | W | W | W | 2.5 |
| Other..... | W | W | 15 | W | W | W | .5 |
| Total Industry..... | 2,736 | 2,987 | 3,236 | 1.9 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------------|-------------------|------------------|--|-----------------------|-----------------------|-----------------------|
| Idaho | | | | | | | |
| Petroleum..... | 475 | 245 | 3,723 | 25.7 | 0.0 | 0.0 | 0.0 |
| Hydroelectric..... | 6,259,550 | 12,230,560 | 6,662,866 | .7 | 83.9 | 86.8 | 71.3 |
| Total Utility..... | 6,260,025 | 12,230,805 | 6,666,589 | .7 | 83.9 | 86.8 | 71.3 |
| Coal..... | W | W | 72,284 | W | W | W | .8 |
| Petroleum..... | W | W | 0 | W | W | W | .0 |
| Natural Gas..... | W | W | 1,405,286 | W | W | W | 15.0 |
| Hydroelectric..... | 394,427 | 1,052,688 | 560,261 | 4.0 | 5.3 | 7.5 | 6.0 |
| Other Renewable..... | 552,762 | 511,759 | 533,333 | -4 | 7.4 | 3.6 | 5.7 |
| Other..... | W | W | 109,187 | W | W | W | 1.2 |
| Total Nonutility..... | 1,202,980 | 1,859,002 | 2,680,351 | 9.3 | 16.1 | 13.2 | 28.7 |
| Coal..... | W | W | 72,284 | W | W | W | .8 |
| Petroleum..... | W | W | 3,723 | W | W | W | .0 |
| Natural Gas..... | W | W | 1,405,286 | W | W | W | 15.0 |
| Hydroelectric..... | 6,653,977 | 13,283,248 | 7,223,127 | .9 | 89.2 | 94.3 | 77.3 |
| Other Renewable..... | 552,762 | 511,759 | 533,333 | -4 | 7.4 | 3.6 | 5.7 |
| Other..... | W | W | 109,187 | W | W | W | 1.2 |
| Total Industry..... | 7,463,005 | 14,089,807 | 9,346,940 | 2.5 | 100.0 | 100.0 | 100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|------|------|------|--|
| Idaho | | | | |
| Sulfur Dioxide | | | | |
| Coal | 1 | 1 | NA | NA |
| Petroleum | 0 | * | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 2 | 2 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | * | * | NA | NA |
| Petroleum | 0 | 0 | NA | NA |
| Gas | * | * | NA | NA |
| Other | * | * | NA | NA |
| Total | 1 | 1 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 61 | 41 | 111 | 6.8 |
| Petroleum | 2 | 1 | 0 | -100.0 |
| Gas | 84 | 104 | 675 | 26.1 |
| Total | 146 | 146 | 786 | 20.5 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Idaho | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 5,739 | 6,508 | 6,906 | 2.1 | 30.2 | 30.8 | 32.7 |
| Commercial | 5,340 | 5,883 | 6,543 | 2.3 | 28.1 | 27.9 | 31.0 |
| Industrial | 7,551 | 8,380 | 7,305 | -4 | 39.7 | 39.7 | 34.6 |
| Other | 379 | 348 | 342 | -1.1 | 2.0 | 1.6 | 1.6 |
| Total | 19,008 | 21,119 | 21,096 | 1.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 322 | 360 | 415 | 2.8 | 38.5 | 41.2 | 40.0 |
| Commercial | 262 | 263 | 336 | 2.8 | 31.2 | 30.0 | 32.4 |
| Industrial | 235 | 235 | 271 | 1.6 | 28.0 | 26.8 | 26.1 |
| Other | 19 | 17 | 16 | -2.0 | 2.3 | 2.0 | 1.5 |
| Total | 838 | 875 | 1,037 | 2.4 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 5.62 | 5.54 | 6.01 | .7 | NA | NA | NA |
| Commercial | 4.90 | 4.46 | 5.13 | .5 | NA | NA | NA |
| Industrial | 3.11 | 2.80 | 3.71 | 2.0 | NA | NA | NA |
| Other | 5.05 | 5.02 | 4.66 | -.9 | NA | NA | NA |
| Total | 4.41 | 4.14 | 4.92 | 1.2 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|--------|---------|-------------|--------------------------|---------|
| Idaho | | | | | | |
| Number of Entities | 3 | 12 | 0 | 16 | 0 | 31 |
| Number of Retail Customers..... | 485,762 | 95,613 | 0 | 66,830 | 0 | 648,205 |
| Retail Sales (thousand megawatthours)..... | 15,394 | 4,181 | 0 | 1,520 | 0 | 21,096 |
| Percentage of Retail Sales..... | 72.97 | 19.82 | .00 | 7.21 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 787 | 167 | 0 | 84 | 0 | 1,037 |
| Percentage of Revenue | 75.87 | 16.06 | .00 | 8.07 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.11 | 3.98 | .00 | 5.50 | 0 | 4.92 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Illinois | | |
| North American Electric Reliability Council (NERC) Region(s) | | MAIN/MAPP |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 40,069 | 4 |
| Utility..... | 4,420 | 36 |
| Nonutility..... | 35,649 | 2 |
| Net Generation (megawatthours) | 179,249,272 | 5 |
| Utility..... | 29,835,014 | 34 |
| Nonutility..... | 149,414,258 | 2 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 97,378 | 6 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,752 | 14 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 135,685,219 | 7 |
| Utility Retail Electricity Sales (megawatthours) | 124,387,106 | 6 |
| ESP Retail Electricity Sales (megawatthours)..... | 11,298,113 | 4 |
| Direct Use (megawatthours)..... | 1,212,871 | 25 |
| Average Retail Price (cents/kWh)..... | 6.90 | 22 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|----------------------------|----------------|-------------------------------|---------------------|
| Illinois | | | |
| 1. Collins | Other | Midwest Generations EME LLC | 2,671 |
| 2. Byron..... | Nuclear | Exelon Gen Co LLC | 2,390 |
| 3. Braidwood..... | Nuclear | Exelon Gen Co LLC | 2,282 |
| 4. LaSalle | Nuclear | Exelon Gen Co LLC | 2,259 |
| 5. Baldwin | Other | Dynegy Midwest Generation Inc | 1,716 |
| 6. Dresden | Nuclear | Exelon Gen Co LLC | 1,571 |
| 7. Powerton | Other | Midwest Generations EME LLC | 1,538 |
| 8. Quad Cities | Nuclear | Exelon Gen Co LLC | 1,537 |
| 9. Elwood Energy LLC | Other | Dominion Elwood Services Co | 1,350 |
| 10. Kincaid | Other | Dominion Energy Services Co | 1,168 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|------------|
| Illinois | | | | | |
| A. Commonwealth Edison Company..... | 76,917,652 | 25,281,880 | 26,714,632 | 16,055,125 | 8,866,015 |
| B. Illinois Power Company | 16,263,361 | 5,202,145 | 4,336,487 | 6,353,335 | 371,394 |
| C. Central Illinois Pub Serv Co | 10,892,698 | 3,034,335 | 3,044,987 | 4,660,106 | 153,270 |
| D. Central Illinois Light Company | 8,174,308 | 1,840,952 | 1,789,971 | 2,367,355 | 2,176,030 |
| E. Union Electric Company | 3,551,799 | 627,998 | 798,032 | 2,109,538 | 16,231 |
| Total | 115,799,818 | 35,987,310 | 36,684,109 | 31,545,459 | 11,582,940 |
| Percentage of Utility Sales..... | 85 | 86 | 84 | 83 | 96 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Illinois | | | | | | | |
| Coal..... | 14,947 | 14,931 | 2,862 | -16.8 | 45.0 | 44.0 | 7.1 |
| Petroleum..... | 3,706 | 2,298 | 427 | -21.3 | 11.2 | 6.8 | 1.1 |
| Natural Gas..... | 889 | 2,763 | 403 | -8.4 | 2.7 | 8.1 | 1.0 |
| Dual Fired..... | 476 | 551 | 716 | 4.7 | 1.4 | 1.6 | 1.8 |
| Nuclear..... | 12,609 | 12,609 | 0 | -100.0 | 37.9 | 37.2 | .0 |
| Hydroelectric..... | 10 | 13 | 12 | 2.5 | .0 | .0 | .0 |
| Total Utility..... | 32,636 | 33,164 | 4,420 | -19.9 | 98.2 | 97.8 | 11.0 |
| Coal..... | 314 | 352 | 12,937 | 51.2 | .9 | 1.0 | 32.3 |
| Petroleum..... | 8 | 5 | 998 | 72.0 | .0 | .0 | 2.5 |
| Natural Gas..... | 150 | 227 | 7,118 | 53.6 | .5 | .7 | 17.8 |
| Other Gases..... | 55 | 45 | 33 | -5.5 | .2 | .1 | .1 |
| Dual Fired..... | 24 | 50 | 3,410 | 73.7 | .1 | .1 | 8.5 |
| Nuclear..... | 0 | 0 | 10,963 | .0 | .0 | .0 | 27.4 |
| Hydroelectric..... | W | W | 23 | W | W | W | .1 |
| Other Renewables..... | W | W | 165 | W | W | W | .4 |
| Total Nonutility..... | 594 | 738 | 35,648 | 57.6 | 1.8 | 2.2 | 89.0 |
| Coal..... | 15,261 | 15,283 | 15,799 | .4 | 45.9 | 45.1 | 39.4 |
| Petroleum..... | 3,714 | 2,303 | 1,425 | -10.1 | 11.2 | 6.8 | 3.6 |
| Natural Gas..... | 1,039 | 2,989 | 7,521 | 24.6 | 3.1 | 8.8 | 18.8 |
| Other Gases..... | 55 | 45 | 33 | -5.5 | .2 | .1 | .1 |
| Dual Fired..... | 499 | 601 | 4,127 | 26.4 | 1.5 | 1.8 | 10.3 |
| Nuclear..... | 12,609 | 12,609 | 10,963 | -1.5 | 37.9 | 37.2 | 27.4 |
| Hydroelectric..... | W | W | 35 | W | W | W | .1 |
| Other Renewables..... | W | W | 165 | W | W | W | .4 |
| Total Industry..... | 33,230 | 33,903 | 40,068 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Illinois | | | | | | | |
| Coal..... | 49,814,805 | 71,514,607 | 29,124,508 | -5.8 | 38.9 | 48.4 | 16.2 |
| Petroleum..... | 434,359 | 795,771 | 99,445 | -15.1 | .3 | .5 | .1 |
| Natural Gas..... | 772,560 | 1,875,248 | 546,305 | -3.8 | .6 | 1.3 | .3 |
| Nuclear..... | 73,742,321 | 69,774,356 | 0 | -100.0 | 57.6 | 47.2 | .0 |
| Hydroelectric..... | 51,600 | 22,431 | 56,802 | 1.1 | .0 | .0 | .0 |
| Other Renewable..... | 8,448 | 133,596 | 7,954 | -.7 | .0 | .1 | .0 |
| Total Utility..... | 124,824,093 | 144,116,009 | 29,835,014 | -14.7 | 97.5 | 97.6 | 16.6 |
| Coal..... | 1,601,786 | 1,833,468 | 50,426,131 | 46.7 | 1.3 | 1.2 | 28.1 |
| Petroleum..... | W | W | 1,406,556 | W | W | W | .8 |
| Natural Gas..... | 931,037 | 938,520 | 4,059,978 | 17.8 | .7 | .6 | 2.3 |
| Other Gases..... | 404,079 | 399,493 | 355,777 | -1.4 | .3 | .3 | .2 |
| Nuclear..... | 0 | 0 | 92,358,477 | .0 | .0 | .0 | 51.5 |
| Hydroelectric..... | W | W | 87,227 | W | W | W | .0 |
| Other Renewable..... | W | W | 720,113 | W | W | W | .4 |
| Total Nonutility..... | 3,222,135 | 3,617,017 | 149,414,258 | 53.2 | 2.5 | 2.4 | 83.4 |
| Coal..... | 51,416,591 | 73,348,075 | 79,550,639 | 5.0 | 40.2 | 49.6 | 44.4 |
| Petroleum..... | W | W | 1,506,001 | W | W | W | .8 |
| Natural Gas..... | 1,703,597 | 2,813,768 | 4,606,283 | 11.7 | 1.3 | 1.9 | 2.6 |
| Other Gases..... | 404,079 | 399,493 | 355,777 | -1.4 | .3 | .3 | .2 |
| Nuclear..... | 73,742,321 | 69,774,356 | 92,358,477 | 2.5 | 57.6 | 47.2 | 51.5 |
| Hydroelectric..... | W | W | 144,029 | W | W | W | .1 |
| Other Renewable..... | W | W | 728,067 | W | W | W | .4 |
| Total Industry..... | 128,046,228 | 147,733,026 | 179,249,272 | 3.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Illinois | | | | |
| Coal (2001 cents per million Btu)..... | 198.3 | 170.5 | 119.2 | -5.5 |
| Average heat value (Btu per pound)..... | 10,666 | 9,878 | 9,654 | -1.1 |
| Average sulfur Content(percent)..... | 1.9 | 1.2 | 1.1 | -5.9 |
| Petroleum (2001 cents per million Btu)..... | 346.7 | 311.9 | 578.7 | 5.8 |
| Average heat value (Btu per gallon)..... | 153,633 | 284,106 | 145,942 | -6 |
| Average sulfur Content(percent)..... | .7 | 1.5 | .3 | -9.6 |
| Gas (2001 cents per million Btu)..... | 251.2 | 269.6 | 368.5 | 4.3 |
| Average heat value (Btu per cubic foot)..... | 1016.2 | 1020.2 | 1029.5 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Illinois | | | | |
| Sulfur Dioxide | | | | |
| Coal | 858 | 745 | NA | NA |
| Petroleum | 5 | 8 | NA | NA |
| Gas | * | 0 | NA | NA |
| Other | * | * | NA | NA |
| Total | 863 | 752 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 266 | 281 | NA | NA |
| Petroleum | 1 | 2 | NA | NA |
| Gas | 5 | 4 | NA | NA |
| Other | 1 | 2 | NA | NA |
| Total | 273 | 289 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 57,965 | 81,568 | 92,667 | 5.3 |
| Petroleum | 1,202 | 1,079 | 1,621 | 3.4 |
| Gas | 1,484 | 2,314 | 3,090 | 8.5 |
| Total | 60,651 | 84,962 | 97,378 | 5.4 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| Illinois | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 32,367 | 37,535 | 41,820 | 2.9 | 28.8 | 29.9 | 30.8 |
| Commercial | 31,457 | 37,432 | 43,836 | 3.8 | 28.0 | 29.8 | 32.3 |
| Industrial | 40,898 | 42,050 | 37,948 | -8 | 36.3 | 33.5 | 28.0 |
| Other | 7,798 | 8,572 | 12,082 | 5.0 | 6.9 | 6.8 | 8.9 |
| Total | 112,521 | 125,589 | 135,685 | 2.1 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 3,801 | 4,067 | 3,645 | -5 | 38.5 | 40.2 | 38.9 |
| Commercial | 2,903 | 3,126 | 3,194 | 1.1 | 29.4 | 30.9 | 34.1 |
| Industrial | 2,553 | 2,309 | 1,867 | -3.4 | 25.9 | 22.8 | 19.9 |
| Other | 617 | 614 | 656 | .7 | 6.3 | 6.1 | 7.0 |
| Total | 9,874 | 10,116 | 9,361 | -6 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 11.74 | 10.83 | 8.71 | -3.3 | NA | NA | NA |
| Commercial | 9.23 | 8.35 | 7.29 | -2.6 | NA | NA | NA |
| Industrial | 6.24 | 5.49 | 4.92 | -2.6 | NA | NA | NA |
| Other | 7.91 | 7.16 | 5.43 | -4.1 | NA | NA | NA |
| Total | 8.78 | 8.05 | 6.90 | -2.6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Illinois | | | | | | |
| Number of Entities | 7 | 43 | 0 | 27 | 5 | 82 |
| Number of Retail Customers..... | 4,738,492 | 343,066 | 0 | 251,394 | 5,803 | 5,338,755 |
| Retail Sales (thousand megawatthours)..... | 111,628 | 8,396 | 0 | 4,364 | 11,298 | 135,685 |
| Percentage of Retail Sales..... | 82.27 | 6.19 | .00 | 3.22 | 8.33 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 7,976 | 516 | 0 | 384 | 485 | 9,361 |
| Percentage of Revenue | 85.20 | 5.52 | .00 | 4.10 | 5.19 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.15 | 6.15 | .00 | 8.79 | 0 | 6.90 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Indiana | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 24,169 | 12 |
| Utility..... | 20,616 | 10 |
| Nonutility..... | 3,553 | 17 |
| Net Generation (megawatthours) | 122,569,679 | 9 |
| Utility..... | 114,666,355 | 5 |
| Nonutility..... | 7,903,324 | 19 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 127,651 | 4 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,559 | 1 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 97,733,968 | 11 |
| Utility Retail Electricity Sales (megawatthours) | 97,733,968 | 11 |
| Direct Use (megawatthours)..... | 4,805,495 | 9 |
| Average Retail Price (cents/kWh)..... | 5.30 | 45 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Petersburg..... | Petroleum, Coal | Indianapolis Power & Light Co | 1,672 |
| 5. Clifty Creek | Petroleum, Coal | Indiana-Kentucky Electric Corp | 1,247 |
| 6. Cayuga | Petroleum, Gas, Coal | PSI Energy Inc | 1,106 |
| 7. Merom..... | Petroleum, Coal | Hoosier Energy R E C Inc | 1,000 |
| 8. Tanners Creek..... | Petroleum, Coal | Indiana Michigan Power Co | 980 |
| 9. Elmer W Stout..... | Petroleum, Gas, Coal | Indianapolis Power & Light Co | 924 |
| 10. Wabash River..... | Petroleum, Gas, Coal | PSI Energy Inc | 906 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|---------|
| Indiana | | | | | |
| A. PSI Energy, Inc..... | 26,065,607 | 7,865,063 | 6,891,120 | 11,241,445 | 67,979 |
| B. Northern Indiana Pub Serv Co..... | 15,466,278 | 2,956,872 | 3,446,339 | 8,935,539 | 127,528 |
| C. Indiana Michigan Power Co..... | 15,277,025 | 4,280,675 | 4,049,502 | 6,874,298 | 72,550 |
| D. Indianapolis Power & Light Co..... | 14,081,137 | 4,717,218 | 1,955,002 | 7,337,280 | 71,637 |
| E. Southern Indiana Gas & Elec Co..... | 5,240,539 | 1,411,262 | 1,383,355 | 2,426,756 | 19,166 |
| Total | 76,130,586 | 21,231,090 | 17,725,318 | 36,815,318 | 358,860 |
| Percentage of Utility Sales..... | 78 | 72 | 69 | 87 | 52 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Indiana | | | | | | | |
| Coal..... | 19,562 | 19,045 | 18,734 | -0.5 | 90.6 | 88.2 | 77.5 |
| Petroleum..... | 480 | 487 | 471 | -.2 | 2.2 | 2.3 | 1.9 |
| Natural Gas..... | 172 | 297 | 557 | 13.9 | .8 | 1.4 | 2.3 |
| Dual Fired..... | 539 | 790 | 796 | 4.4 | 2.5 | 3.7 | 3.3 |
| Hydroelectric..... | 69 | 62 | 58 | -1.8 | .3 | .3 | .2 |
| Total Utility..... | 20,821 | 20,681 | 20,616 | -.1 | 96.4 | 95.8 | 85.3 |
| Coal..... | 206 | 236 | 723 | 14.9 | 1.0 | 1.1 | 3.0 |
| Petroleum..... | W | W | 10 | W | W | W | .0 |
| Natural Gas..... | W | W | 1,960 | W | W | W | 8.1 |
| Other Gases..... | 303 | 399 | 589 | 7.7 | 1.4 | 1.9 | 2.4 |
| Dual Fired..... | 95 | 111 | 251 | 11.5 | .4 | .5 | 1.0 |
| Other Renewables..... | W | W | 21 | W | W | W | .1 |
| Total Nonutility..... | 772 | 900 | 3,553 | 18.5 | 3.6 | 4.2 | 14.7 |
| Coal..... | 19,768 | 19,281 | 19,457 | -.2 | 91.5 | 89.3 | 80.5 |
| Petroleum..... | W | W | 481 | W | W | W | 2.0 |
| Natural Gas..... | W | W | 2,516 | W | W | W | 10.4 |
| Other Gases..... | 303 | 399 | 589 | 7.7 | 1.4 | 1.9 | 2.4 |
| Dual Fired..... | 634 | 901 | 1,047 | 5.7 | 2.9 | 4.2 | 4.3 |
| Hydroelectric..... | 69 | 62 | 58 | -1.8 | .3 | .3 | .2 |
| Other Renewables..... | W | W | 21 | W | W | W | .1 |
| Total Industry..... | 21,593 | 21,581 | 24,169 | 1.3 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Indiana | | | | | | | |
| Coal..... | 95,745,949 | 104,413,600 | 113,135,350 | 1.9 | 94.8 | 95.0 | 92.3 |
| Petroleum..... | 287,064 | 320,566 | 371,623 | 2.9 | .3 | .3 | .3 |
| Natural Gas..... | 704,093 | 374,488 | 588,690 | -2.0 | .7 | .3 | .5 |
| Hydroelectric..... | 562,476 | 448,364 | 570,692 | .2 | .6 | .4 | .5 |
| Total Utility..... | 97,299,582 | 105,557,018 | 114,666,355 | 1.8 | 96.3 | 96.0 | 93.6 |
| Coal..... | 870,931 | 1,035,424 | 2,931,162 | 14.4 | .9 | .9 | 2.4 |
| Petroleum..... | 201,000 | 280,464 | 119,859 | -5.6 | .2 | .3 | .1 |
| Natural Gas..... | 480,164 | 871,687 | 1,742,977 | 15.4 | .5 | .8 | 1.4 |
| Other Gases..... | 2,133,416 | 2,053,362 | 2,978,810 | 3.8 | 2.1 | 1.9 | 2.4 |
| Other Renewable..... | 33,471 | 104,145 | 130,516 | 16.3 | .0 | .1 | .1 |
| Total Nonutility..... | 3,718,981 | 4,345,083 | 7,903,324 | 8.7 | 3.7 | 4.0 | 6.4 |
| Coal..... | 96,616,880 | 105,449,024 | 116,066,512 | 2.1 | 95.6 | 95.9 | 94.7 |
| Petroleum..... | 488,064 | 601,030 | 491,482 | .1 | .5 | .5 | .4 |
| Natural Gas..... | 1,184,257 | 1,246,175 | 2,331,667 | 7.8 | 1.2 | 1.1 | 1.9 |
| Other Gases..... | 2,133,416 | 2,053,362 | 2,978,810 | 3.8 | 2.1 | 1.9 | 2.4 |
| Hydroelectric..... | 562,476 | 448,364 | 570,692 | .2 | .6 | .4 | .5 |
| Other Renewable..... | 33,471 | 104,145 | 130,516 | 16.3 | .0 | .1 | .1 |
| Total Industry..... | 101,018,563 | 109,902,101 | 122,569,679 | 2.2 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Indiana | | | | |
| Coal (2001 cents per million Btu) | 149.8 | 124.9 | 113.7 | -3.0 |
| Average heat value (Btu per pound) | 10,628 | 10,357 | 10,518 | -.1 |
| Average sulfur Content(percent) | 1.9 | 1.6 | 1.4 | -2.9 |
| Petroleum (2001 cents per million Btu) | 248.7 | 207.2 | 220.1 | -1.3 |
| Average heat value (Btu per gallon)..... | 460,101 | 511,576 | 507,958 | 1.1 |
| Average sulfur Content(percent) | 4.9 | 4.4 | 4.3 | -1.2 |
| Gas (2001 cents per million Btu)..... | 282.8 | 357.6 | 507.0 | 6.7 |
| Average heat value (Btu per cubic foot..... | 1001.2 | 1020.7 | 1021.9 | .2 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|---------|---------|---------|--|
| Indiana | | | | |
| Sulfur Dioxide | | | | |
| Coal | 1,244 | 954 | NA | NA |
| Petroleum | 1 | 2 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 1,245 | 956 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 485 | 379 | NA | NA |
| Petroleum | 1 | 1 | NA | NA |
| Gas..... | 57 | 92 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 543 | 473 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 102,624 | 114,138 | 123,905 | 2.1 |
| Petroleum | 554 | 611 | 506 | -1.0 |
| Gas..... | 2,977 | 3,851 | 3,235 | .9 |
| Other..... | 6 | 7 | 6 | -1.3 |
| Total | 106,161 | 118,606 | 127,651 | 2.1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Indiana | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 22,837 | 26,861 | 29,420 | 2.8 | 29.7 | 30.2 | 30.1 |
| Commercial..... | 16,083 | 18,292 | 25,551 | 5.3 | 20.9 | 20.6 | 26.1 |
| Industrial..... | 37,439 | 43,203 | 42,080 | 1.3 | 48.6 | 48.6 | 43.1 |
| Other..... | 619 | 546 | 684 | 1.1 | .8 | .6 | .7 |
| Total..... | 76,977 | 88,901 | 97,734 | 2.7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,788 | 1,906 | 2,037 | 1.5 | 38.4 | 39.1 | 39.3 |
| Commercial..... | 1,100 | 1,138 | 1,351 | 2.3 | 23.6 | 23.3 | 26.1 |
| Industrial..... | 1,710 | 1,777 | 1,728 | .1 | 36.7 | 36.5 | 33.4 |
| Other..... | 58 | 53 | 62 | .8 | 1.2 | 1.1 | 1.2 |
| Total..... | 4,655 | 4,873 | 5,177 | 1.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.83 | 7.10 | 6.92 | -1.3 | NA | NA | NA |
| Commercial..... | 6.84 | 6.22 | 5.29 | -2.8 | NA | NA | NA |
| Industrial..... | 4.57 | 4.11 | 4.11 | -1.2 | NA | NA | NA |
| Other..... | 9.34 | 9.63 | 9.06 | -.3 | NA | NA | NA |
| Total..... | 6.05 | 5.48 | 5.30 | -1.5 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Indiana | | | | | | |
| Number of Entities..... | 6 | 72 | 0 | 41 | 0 | 119 |
| Number of Retail Customers..... | 2,174,450 | 252,650 | 0 | 474,365 | 0 | 2,901,465 |
| Retail Sales (thousand megawatthours)..... | 80,779 | 7,401 | 0 | 9,554 | 0 | 97,734 |
| Percentage of Retail Sales..... | 82.65 | 7.57 | .00 | 9.78 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 4,165 | 392 | 0 | 620 | 0 | 5,177 |
| Percentage of Revenue..... | 80.45 | 7.57 | .00 | 11.98 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.16 | 5.29 | .00 | 6.49 | 0 | 5.30 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Iowa | | |
| North American Electric Reliability Council (NERC) Region(s) | | MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 9,183 | 32 |
| Utility..... | 8,352 | 26 |
| Nonutility..... | 831 | 38 |
| Net Generation (megawatthours)..... | 40,658,513 | 33 |
| Utility..... | 38,755,520 | 28 |
| Nonutility..... | 1,902,993 | 40 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 41,456 | 24 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 742 | 28 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 39,213,229 | 31 |
| Utility Retail Electricity Sales (megawatthours) | 39,213,229 | 31 |
| Direct Use (megawatthours)..... | 1,369,692 | 23 |
| Average Retail Price (cents/kWh)..... | 6.14 | 32 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 738 |
| 4. Louisa..... | Petroleum, Gas, Coal | MidAmerican Energy Co | 700 |
| 5. Neal South | Petroleum, Coal | MidAmerican Energy Co | 644 |
| 6. Duane Arnold..... | Nuclear | Interstate Power and Light | 520 |
| 7. Lansing..... | Petroleum, Coal | Interstate Power and Light | 325 |
| 8. Burlington | Gas, Coal | Interstate Power and Light | 275 |
| 9. Muscatine #1..... | Petroleum, Gas, Coal | Muscatine City of | 269 |
| 10. Cedar Rapids..... | Other | Archer Daniels Midland Co | 260 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|-----------|
| Iowa | | | | | |
| A. MidAmerican Energy Company | 15,267,482 | 4,546,256 | 3,349,516 | 5,772,093 | 1,599,617 |
| B. IES Utilities, Inc | 10,395,544 | 2,800,578 | 2,747,437 | 4,808,627 | 38,902 |
| C. Interstate Power Company..... | 3,917,851 | 847,537 | 405,623 | 2,627,960 | 36,731 |
| D. Eastern Iowa Light&Power Coop..... | 1,054,612 | 254,762 | 33,631 | 762,824 | 3,395 |
| E. Muscatine Power and Water..... | 838,646 | 95,145 | 156,794 | 567,598 | 19,109 |
| Total | 31,474,135 | 8,544,278 | 6,693,001 | 14,539,102 | 1,697,754 |
| Percentage of Utility Sales..... | 80 | 69 | 79 | 90 | 84 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Iowa | | | | | | | |
| Coal..... | 5,909 | 5,807 | 5,668 | -0.5 | 69.7 | 68.1 | 61.7 |
| Petroleum..... | 475 | 637 | 815 | 6.2 | 5.6 | 7.5 | 8.9 |
| Natural Gas..... | 184 | 141 | 128 | -4.0 | 2.2 | 1.7 | 1.4 |
| Dual Fired..... | 883 | 917 | 985 | 1.2 | 10.4 | 10.8 | 10.7 |
| Nuclear..... | 515 | 520 | 520 | .1 | 6.1 | 6.1 | 5.7 |
| Hydroelectric..... | 125 | 139 | 129 | .4 | 1.5 | 1.6 | 1.4 |
| Other Renewables..... | 0 | * | 107 | .0 | .0 | .0 | 1.2 |
| Total Utility..... | 8,092 | 8,161 | 8,352 | .4 | 95.5 | 95.7 | 91.0 |
| Coal..... | 240 | 288 | 419 | 6.4 | 2.8 | 3.4 | 4.6 |
| Petroleum..... | W | W | 81 | W | W | W | .9 |
| Natural Gas..... | W | W | 3 | W | W | W | .0 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 2 | W | W | W | .0 |
| Other Renewables..... | W | W | 324 | W | W | W | 3.5 |
| Total Nonutility..... | 383 | 365 | 831 | 9.0 | 4.5 | 4.3 | 9.0 |
| Coal..... | 6,149 | 6,095 | 6,088 | -.1 | 72.6 | 71.5 | 66.3 |
| Petroleum..... | W | W | 897 | W | W | W | 9.8 |
| Natural Gas..... | W | W | 131 | W | W | W | 1.4 |
| Dual Fired..... | W | W | 985 | W | W | W | 10.7 |
| Nuclear..... | 515 | 520 | 520 | .1 | 6.1 | 6.1 | 5.7 |
| Hydroelectric..... | W | W | 131 | W | W | W | 1.4 |
| Other Renewables..... | W | W | 431 | W | W | W | 4.7 |
| Total Industry..... | 8,474 | 8,527 | 9,183 | .9 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Iowa | | | | | | | |
| Coal..... | 24,843,631 | 28,282,531 | 33,471,603 | 3.4 | 81.5 | 81.5 | 82.3 |
| Petroleum..... | 36,206 | 51,064 | 94,796 | 11.3 | .1 | .1 | .2 |
| Natural Gas..... | 146,254 | 188,725 | 454,476 | 13.4 | .5 | .5 | 1.1 |
| Nuclear..... | 3,405,144 | 3,923,631 | 3,852,722 | 1.4 | 11.2 | 11.3 | 9.5 |
| Hydroelectric..... | 981,399 | 918,180 | 830,258 | -1.8 | 3.2 | 2.6 | 2.0 |
| Other Renewable..... | 14,218 | 22,742 | 51,665 | 15.4 | .0 | .1 | .1 |
| Total Utility..... | 29,426,852 | 33,386,873 | 38,755,520 | 3.1 | 96.5 | 96.2 | 95.3 |
| Coal..... | 919,382 | 1,060,419 | 1,193,493 | 2.9 | 3.0 | 3.1 | 2.9 |
| Petroleum..... | 3,878 | 16,341 | 7,832 | 8.1 | .0 | .0 | .0 |
| Natural Gas..... | 122,756 | 160,742 | 138,376 | 1.3 | .4 | .5 | .3 |
| Hydroelectric..... | W | W | 14,895 | W | W | W | .0 |
| Other Renewable..... | W | W | 548,397 | W | W | W | 1.3 |
| Total Nonutility..... | 1,070,072 | 1,301,742 | 1,902,993 | 6.6 | 3.5 | 3.8 | 4.7 |
| Coal..... | 25,763,013 | 29,342,950 | 34,665,096 | 3.4 | 84.5 | 84.6 | 85.3 |
| Petroleum..... | 40,084 | 67,405 | 102,628 | 11.0 | .1 | .2 | .3 |
| Natural Gas..... | 269,010 | 349,467 | 592,852 | 9.2 | .9 | 1.0 | 1.5 |
| Nuclear..... | 3,405,144 | 3,923,631 | 3,852,722 | 1.4 | 11.2 | 11.3 | 9.5 |
| Hydroelectric..... | W | W | 845,153 | W | W | W | 2.1 |
| Other Renewable..... | W | W | 600,062 | W | W | W | 1.5 |
| Total Industry..... | 30,496,924 | 34,688,615 | 40,658,513 | 3.2 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|---------|--|
| Iowa | | | | |
| Coal (2001 cents per million Btu) | 126.0 | 98.7 | 81.4 | -4.7 |
| Average heat value (Btu per pound) | 8,867 | 8,658 | 8,658 | -.3 |
| Average sulfur Content(percent) | .7 | .4 | .4 | -6.6 |
| Petroleum (2001 cents per million Btu) | 180.4 | 122.7 | 617.0 | 14.6 |
| Average heat value (Btu per gallon) | 582,407 | 611,328 | 139,423 | -14.7 |
| Average sulfur Content(percent) | 5.3 | 5.5 | .0 | -100.0 |
| Gas (2001 cents per million Btu) | 350.2 | 338.0 | 477.1 | 3.5 |
| Average heat value (Btu per cubic foot) | 1004.0 | 1002.5 | 1002.9 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Iowa | | | | |
| Sulfur Dioxide | | | | |
| Coal | 186 | 157 | NA | NA |
| Petroleum | * | 6 | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | * | * | NA | NA |
| Total | 186 | 163 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 137 | 84 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 1 | 1 | NA | NA |
| Other | * | * | NA | NA |
| Total | 138 | 85 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 29,913 | 34,201 | 40,805 | 3.5 |
| Petroleum | 46 | 84 | 108 | 9.8 |
| Gas | 276 | 378 | 543 | 7.8 |
| Other | * | 0 | 0 | -100.0 |
| Total | 30,236 | 34,664 | 41,456 | 3.6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Iowa | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 10,290 | 11,537 | 12,430 | 2.1 | 34.1 | 33.0 | 31.7 |
| Commercial..... | 7,019 | 7,338 | 8,512 | 2.2 | 23.2 | 21.0 | 21.7 |
| Industrial..... | 12,134 | 14,789 | 16,238 | 3.3 | 40.2 | 42.3 | 41.4 |
| Other..... | 765 | 1,335 | 2,033 | 11.5 | 2.5 | 3.8 | 5.2 |
| Total..... | 30,208 | 34,999 | 39,213 | 2.9 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 941 | 987 | 1,045 | 1.2 | 45.7 | 45.3 | 43.4 |
| Commercial..... | 509 | 502 | 570 | 1.3 | 24.7 | 23.0 | 23.6 |
| Industrial..... | 556 | 605 | 679 | 2.3 | 27.0 | 27.8 | 28.2 |
| Other..... | 56 | 84 | 114 | 8.3 | 2.7 | 3.8 | 4.7 |
| Total..... | 2,062 | 2,178 | 2,408 | 1.7 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.15 | 8.55 | 8.41 | -9 | NA | NA | NA |
| Commercial..... | 7.25 | 6.84 | 6.69 | -9 | NA | NA | NA |
| Industrial..... | 4.58 | 4.09 | 4.18 | -1.0 | NA | NA | NA |
| Other..... | 7.27 | 6.26 | 5.61 | -2.8 | NA | NA | NA |
| Total..... | 6.82 | 6.22 | 6.14 | -1.2 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Iowa | | | | | | |
| Number of Entities..... | 4 | 138 | 0 | 43 | 0 | 185 |
| Number of Retail Customers..... | 1,048,798 | 198,483 | 0 | 198,293 | 0 | 1,445,574 |
| Retail Sales (thousand megawatthours)..... | 29,669 | 4,859 | 0 | 4,686 | 0 | 39,213 |
| Percentage of Retail Sales..... | 75.66 | 12.39 | .00 | 11.95 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,818 | 270 | 0 | 321 | 0 | 2,408 |
| Percentage of Revenue..... | 75.48 | 11.19 | .00 | 13.33 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.13 | 5.55 | .00 | 6.85 | 0 | 6.14 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Kansas | | |
| North American Electric Reliability Council (NERC) Region(s) | | SPP/MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 10,376 | 30 |
| Utility..... | 10,223 | 22 |
| Nonutility..... | 153 | 48 |
| Net Generation (megawatthours) | 44,748,522 | 32 |
| Utility..... | 44,642,712 | 25 |
| Nonutility..... | 105,810 | 49 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 39,122 | 25 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 478 | 35 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 35,846,951 | 32 |
| Utility Retail Electricity Sales (megawatthours) | 35,846,951 | 32 |
| Direct Use (megawatthours)..... | 35,771 | 42 |
| Average Retail Price (cents/kWh)..... | 6.24 | 30 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|----------------------|----------------------|-------------------------------|---------------------|
| Kansas | | | |
| 1. Jeffrey..... | Petroleum, Coal | Western Resources Inc | 2,226 |
| 2. LaCygne..... | Petroleum, Coal | Kansas City Power & Light Co | 1,362 |
| 3. Wolf Creek..... | Nuclear | Wolf Creek Nuclear Optg Corp | 1,170 |
| 4. Gordon Evans..... | Petroleum, Gas | Kansas Gas & Electric Co | 789 |
| 5. Lawrence..... | Gas, Coal | Western Resources Inc | 598 |
| 6. Hutchinson..... | Gas, Petroleum | Western Resources Inc | 490 |
| 7. Murray Gill..... | Gas, Petroleum | Kansas Gas & Electric Co | 335 |
| 8. Holcomb..... | Gas, Coal | Sunflower Electric Power Corp | 331 |
| 9. Quindaro..... | Petroleum, Gas, Coal | Kansas City City of | 316 |
| 10. Tecumseh..... | Gas, Coal | Western Resources Inc | 284 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|---------|
| Kansas | | | | | |
| A. Western Resources, Inc | 9,322,759 | 3,020,788 | 4,110,138 | 2,129,144 | 62,689 |
| B. Kansas Gas & Electric Company..... | 8,898,370 | 2,733,742 | 2,632,139 | 3,488,160 | 44,329 |
| C. Kansas City Power & Light Co..... | 5,552,231 | 2,407,706 | 2,733,278 | 392,195 | 19,052 |
| D. Board of Public Utilities | 2,246,293 | 550,868 | 802,680 | 817,760 | 74,985 |
| E. UtiliCorp United, Inc | 1,779,092 | 478,609 | 546,709 | 729,128 | 24,646 |
| Total | 27,798,745 | 9,191,713 | 10,824,944 | 7,556,387 | 225,701 |
| Percentage of Utility Sales..... | 78 | 76 | 85 | 71 | 53 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Kansas | | | | | | | |
| Coal..... | 5,149 | 5,256 | 5,295 | 0.3 | 52.9 | 53.9 | 51.0 |
| Petroleum..... | 214 | 211 | 244 | 1.5 | 2.2 | 2.2 | 2.4 |
| Natural Gas..... | 555 | 415 | 754 | 3.5 | 5.7 | 4.3 | 7.3 |
| Dual Fired..... | 2,616 | 2,649 | 2,760 | .6 | 26.9 | 27.2 | 26.6 |
| Nuclear..... | 1,159 | 1,163 | 1,170 | .1 | 11.9 | 11.9 | 11.3 |
| Other Renewables..... | * | 0 | 0 | -100.0 | .0 | .0 | .0 |
| Total Utility..... | 9,693 | 9,694 | 10,223 | .6 | 99.5 | 99.5 | 98.5 |
| Petroleum..... | W | W | 4 | W | W | W | .0 |
| Natural Gas..... | W | W | 29 | W | W | W | .3 |
| Dual Fired..... | W | W | 5 | W | W | W | .0 |
| Hydroelectric..... | W | W | 2 | W | W | W | .0 |
| Other Renewables..... | W | W | 112 | W | W | W | 1.1 |
| Total Nonutility..... | 44 | 49 | 153 | 14.7 | .5 | .5 | 1.5 |
| Coal..... | 5,149 | 5,256 | 5,295 | .3 | 52.9 | 53.9 | 51.0 |
| Petroleum..... | W | W | 249 | W | W | W | 2.4 |
| Natural Gas..... | W | W | 783 | W | W | W | 7.5 |
| Dual Fired..... | W | W | 2,765 | W | W | W | 26.6 |
| Nuclear..... | 1,159 | 1,163 | 1,170 | .1 | 11.9 | 11.9 | 11.3 |
| Hydroelectric..... | W | W | 2 | W | W | W | .0 |
| Other Renewables..... | W | W | 112 | W | W | W | 1.1 |
| Total Industry..... | 9,737 | 9,743 | 10,376 | .7 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Kansas | | | | | | | |
| Coal..... | 22,152,736 | 29,742,722 | 31,768,001 | 4.1 | 69.1 | 74.5 | 71.0 |
| Petroleum..... | 44,544 | 158,472 | 616,418 | 33.9 | .1 | .4 | 1.4 |
| Natural Gas..... | 1,075,714 | 1,768,482 | 1,911,642 | 6.6 | 3.4 | 4.4 | 4.3 |
| Nuclear..... | 8,490,658 | 8,204,868 | 10,346,651 | 2.2 | 26.5 | 20.5 | 23.1 |
| Other Renewable..... | 113 | 0 | 0 | -100.0 | .0 | .0 | .0 |
| Total Utility..... | 31,763,765 | 39,874,544 | 44,642,712 | 3.9 | 99.0 | 99.8 | 99.8 |
| Petroleum..... | W | W | 759 | W | W | W | .0 |
| Natural Gas..... | 296,678 | 55,621 | 39,658 | -20.0 | .9 | .1 | .1 |
| Hydroelectric..... | W | W | 25,561 | W | W | W | .1 |
| Other Renewable..... | W | W | 39,832 | W | W | W | .1 |
| Total Nonutility..... | 314,729 | 67,612 | 105,810 | -11.4 | 1.0 | .2 | .2 |
| Coal..... | 22,152,736 | 29,742,722 | 31,768,001 | 4.1 | 69.1 | 74.5 | 71.0 |
| Petroleum..... | W | W | 617,177 | W | W | W | 1.4 |
| Natural Gas..... | 1,372,392 | 1,824,103 | 1,951,300 | 4.0 | 4.3 | 4.6 | 4.4 |
| Nuclear..... | 8,490,658 | 8,204,868 | 10,346,651 | 2.2 | 26.5 | 20.5 | 23.1 |
| Hydroelectric..... | W | W | 25,561 | W | W | W | .1 |
| Other Renewable..... | W | W | 39,832 | W | W | W | .1 |
| Total Industry..... | 32,078,494 | 39,942,156 | 44,748,522 | 3.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Kansas | | | | |
| Coal (2001 cents per million Btu) | 134.6 | 103.9 | 104.8 | -2.7 |
| Average heat value (Btu per pound) | 8,900 | 8,827 | 8,686 | -.3 |
| Average sulfur Content(percent) | .5 | .5 | .4 | -1.6 |
| Petroleum (2001 cents per million Btu) | 499.8 | 432.1 | 336.1 | -4.3 |
| Average heat value (Btu per gallon)..... | 139,119 | 141,942 | 156,312 | 1.3 |
| Average sulfur Content(percent) | .0 | .6 | 1.7 | .0 |
| Gas (2001 cents per million Btu)..... | 228.2 | 242.9 | 357.8 | 5.1 |
| Average heat value (Btu per cubic foot..... | 970.4 | 973.3 | 1005.6 | .4 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Kansas | | | | |
| Sulfur Dioxide | | | | |
| Coal | 66 | 116 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Total | 66 | 117 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 100 | 92 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 2 | 3 | NA | NA |
| Total | 102 | 95 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 26,298 | 35,088 | 37,097 | 3.9 |
| Petroleum | 57 | 167 | 635 | 30.8 |
| Gas..... | 945 | 1,366 | 1,390 | 4.4 |
| Total | 27,300 | 36,621 | 39,122 | 4.1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Kansas | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 8,873 | 10,672 | 12,062 | 3.5 | 32.8 | 34.1 | 33.6 |
| Commercial..... | 9,400 | 11,005 | 12,787 | 3.5 | 34.7 | 35.2 | 35.7 |
| Industrial..... | 8,451 | 9,231 | 10,569 | 2.5 | 31.2 | 29.5 | 29.5 |
| Other..... | 346 | 383 | 429 | 2.4 | 1.3 | 1.2 | 1.2 |
| Total..... | 27,069 | 31,291 | 35,847 | 3.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 799 | 879 | 925 | 1.6 | 39.5 | 41.1 | 41.3 |
| Commercial..... | 716 | 768 | 793 | 1.1 | 35.3 | 35.9 | 35.4 |
| Industrial..... | 475 | 455 | 481 | .1 | 23.5 | 21.3 | 21.5 |
| Other..... | 35 | 36 | 38 | 1.0 | 1.7 | 1.7 | 1.7 |
| Total..... | 2,025 | 2,138 | 2,236 | 1.1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.01 | 8.23 | 7.66 | -1.8 | NA | NA | NA |
| Commercial..... | 7.61 | 6.98 | 6.20 | -2.3 | NA | NA | NA |
| Industrial..... | 5.62 | 4.93 | 4.55 | -2.3 | NA | NA | NA |
| Other..... | 10.13 | 9.53 | 8.91 | -1.4 | NA | NA | NA |
| Total..... | 7.48 | 6.83 | 6.24 | -2.0 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Kansas | | | | | | |
| Number of Entities..... | 4 | 123 | 0 | 29 | 0 | 156 |
| Number of Retail Customers..... | 852,754 | 329,492 | 0 | 182,793 | 0 | 1,365,039 |
| Retail Sales (thousand megawatthours)..... | 23,796 | 8,765 | 0 | 3,286 | 0 | 35,847 |
| Percentage of Retail Sales..... | 66.38 | 24.45 | .00 | 9.17 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,419 | 545 | 0 | 272 | 0 | 2,236 |
| Percentage of Revenue..... | 63.46 | 24.36 | .00 | 12.18 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.96 | 6.21 | .00 | 8.29 | 0 | 6.24 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Kentucky | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR/SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 17,579 | 19 |
| Utility..... | 15,229 | 16 |
| Nonutility..... | 2,350 | 24 |
| Net Generation (megawatthours) | 95,417,624 | 14 |
| Utility..... | 83,677,982 | 12 |
| Nonutility..... | 11,739,642 | 18 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 96,515 | 7 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 2,429 | 11 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 79,975,499 | 14 |
| Utility Retail Electricity Sales (megawatthours) | 79,975,499 | 14 |
| Direct Use (megawatthours)..... | 343,651 | 36 |
| Average Retail Price (cents/kWh)..... | 4.24 | 51 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-----------------------|----------------------|------------------------------|---------------------|
| Kentucky | | | |
| 1. Paradise | Petroleum, Coal | Tennessee Valley Authority | 2,190 |
| 2. Ghent..... | Petroleum, Coal | Kentucky Utilities Co | 1,968 |
| 3. E W Brown..... | Petroleum, Gas, Coal | Kentucky Utilities Co | 1,664 |
| 4. Mill Creek..... | Petroleum, Gas, Coal | Louisville Gas & Electric Co | 1,470 |
| 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. East Bend..... | Petroleum, Coal | Cincinnati Gas & Electric Co | 600 |
| 9. Cane Run | Petroleum, Gas, Coal | Louisville Gas & Electric Co | 579 |
| 10. J K Smith | Petroleum, Gas | East Kentucky Power Coop Inc | 514 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--------------------------------------|-------------|-------------|------------|------------|-----------|
| Kentucky | | | | | |
| A. Kentucky Utilities Company..... | 15,748,468 | 5,287,247 | 3,803,387 | 5,240,981 | 1,416,853 |
| B. Louisville Gas & Electric Co..... | 11,377,267 | 3,782,869 | 3,394,982 | 2,976,234 | 1,223,182 |
| C. Kenergy Corporation | 9,231,715 | 665,147 | 221,791 | 8,302,616 | 42,161 |
| D. Tennessee Valley Authority..... | 8,463,543 | 0 | 0 | 8,433,812 | 29,731 |
| E. Kentucky Power Company..... | 6,728,917 | 2,312,428 | 1,278,776 | 3,126,398 | 11,315 |
| Total | 51,549,910 | 12,047,691 | 8,698,936 | 28,080,041 | 2,723,242 |
| Percentage of Utility Sales..... | 64 | 51 | 61 | 73 | 83 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Kentucky | | | | | | | |
| Coal..... | 14,096 | 14,045 | 12,561 | -1.3 | 92.1 | 89.5 | 71.5 |
| Petroleum..... | 134 | 134 | 70 | -7.0 | .9 | .9 | .4 |
| Natural Gas..... | 207 | 207 | 348 | 5.9 | 1.4 | 1.3 | 2.0 |
| Dual Fired..... | 68 | 508 | 1,430 | 40.3 | .4 | 3.2 | 8.1 |
| Hydroelectric..... | 795 | 792 | 821 | .4 | 5.2 | 5.0 | 4.7 |
| Total Utility..... | 15,300 | 15,686 | 15,229 | -.1 | 100.0 | 100.0 | 86.6 |
| Coal..... | W | W | 1,716 | W | W | W | 9.8 |
| Natural Gas..... | W | W | 518 | W | W | W | 2.9 |
| Dual Fired..... | W | W | 65 | W | W | W | .4 |
| Other Renewables..... | W | W | 51 | W | W | W | .3 |
| Total Nonutility..... | 0 | 4 | 2,350 | .0 | .0 | .0 | 13.4 |
| Coal..... | W | W | 14,277 | W | W | W | 81.2 |
| Petroleum..... | 134 | 134 | 70 | -7.0 | .9 | .9 | .4 |
| Natural Gas..... | W | W | 866 | W | W | W | 4.9 |
| Dual Fired..... | 68 | 508 | 1,495 | 41.0 | .4 | 3.2 | 8.5 |
| Hydroelectric..... | 795 | 792 | 821 | .4 | 5.2 | 5.0 | 4.7 |
| Other Renewables..... | W | W | 51 | W | W | W | .3 |
| Total Industry..... | 15,300 | 15,689 | 17,579 | 1.6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Kentucky | | | | | | | |
| Coal..... | 73,476,309 | 84,659,818 | 79,381,504 | 0.9 | 95.0 | 95.7 | 83.2 |
| Petroleum..... | 83,886 | 135,437 | 120,418 | 4.1 | .1 | .2 | .1 |
| Natural Gas..... | 23,832 | 145,980 | 320,552 | 33.5 | .0 | .2 | .3 |
| Hydroelectric..... | 3,767,232 | 3,496,989 | 3,855,508 | .3 | 4.9 | 4.0 | 4.0 |
| Total Utility..... | 77,351,259 | 88,438,224 | 83,677,982 | .9 | 100.0 | 100.0 | 87.7 |
| Coal..... | W | W | 11,417,074 | W | W | W | 12.0 |
| Petroleum..... | W | W | 3,142 | W | W | W | .0 |
| Natural Gas..... | W | W | 309,874 | W | W | W | .3 |
| Other Renewable..... | W | W | 9,552 | W | W | W | .0 |
| Total Nonutility..... | 0 | 9,272 | 11,739,642 | .0 | .0 | .0 | 12.3 |
| Coal..... | W | W | 90,798,578 | W | W | W | 95.2 |
| Petroleum..... | W | W | 123,560 | W | W | W | .1 |
| Natural Gas..... | W | W | 630,426 | W | W | W | .7 |
| Hydroelectric..... | 3,767,232 | 3,496,989 | 3,855,508 | .3 | 4.9 | 4.0 | 4.0 |
| Other Renewable..... | W | W | 9,552 | W | W | W | .0 |
| Total Industry..... | 77,351,259 | 88,447,496 | 95,417,624 | 2.4 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Kentucky | | | | |
| Coal (2001 cents per million Btu) | 132.7 | 111.0 | 110.4 | -2.0 |
| Average heat value (Btu per pound) | 11,620 | 11,536 | 11,460 | -.1 |
| Average sulfur Content(percent) | 2.4 | 2.5 | 2.1 | -1.4 |
| Petroleum (2001 cents per million Btu) | 547.3 | 325.2 | 567.3 | .4 |
| Average heat value (Btu per gallon)..... | 138,995 | 392,983 | 139,349 | * |
| Average sulfur Content(percent) | .0 | 4.0 | .0 | .0 |
| Gas (2001 cents per million Btu)..... | 310.0 | 357.8 | 458.9 | 4.4 |
| Average heat value (Btu per cubic foot.....) | 1019.6 | 1021.6 | 1025.1 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Kentucky | | | | |
| Sulfur Dioxide | | | | |
| Coal | 890 | 642 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 0 | 0 | NA | NA |
| Total | 890 | 642 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 319 | 372 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 0 | * | NA | NA |
| Total | 319 | 372 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 74,564 | 86,828 | 95,981 | 2.8 |
| Petroleum | 91 | 144 | 105 | 1.6 |
| Gas..... | 16 | 109 | 429 | 44.1 |
| Total | 74,671 | 87,080 | 96,515 | 2.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Kentucky | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 17,787 | 21,353 | 23,698 | 3.2 | 26.5 | 27.7 | 29.6 |
| Commercial..... | 9,576 | 10,659 | 14,338 | 4.6 | 14.3 | 13.8 | 17.9 |
| Industrial..... | 37,084 | 41,930 | 38,676 | .5 | 55.3 | 54.4 | 48.4 |
| Other..... | 2,622 | 3,077 | 3,263 | 2.5 | 3.9 | 4.0 | 4.1 |
| Total..... | 67,068 | 77,019 | 79,976 | 2.0 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,156 | 1,241 | 1,323 | 1.5 | 36.0 | 38.2 | 39.0 |
| Commercial..... | 578 | 579 | 746 | 2.9 | 18.0 | 17.8 | 22.0 |
| Industrial..... | 1,335 | 1,281 | 1,176 | -1.4 | 41.6 | 39.4 | 34.7 |
| Other..... | 139 | 150 | 148 | .6 | 4.3 | 4.6 | 4.4 |
| Total..... | 3,208 | 3,251 | 3,393 | .6 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 6.50 | 5.81 | 5.58 | -1.7 | NA | NA | NA |
| Commercial..... | 6.03 | 5.43 | 5.20 | -1.6 | NA | NA | NA |
| Industrial..... | 3.60 | 3.05 | 3.04 | -1.8 | NA | NA | NA |
| Other..... | 5.32 | 4.88 | 4.53 | -1.8 | NA | NA | NA |
| Total..... | 4.78 | 4.22 | 4.24 | -1.3 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Kentucky | | | | | | |
| Number of Entities..... | 6 | 31 | 0 | 25 | 0 | 62 |
| Number of Retail Customers..... | 1,146,184 | 200,248 | 0 | 714,400 | 0 | 2,060,832 |
| Retail Sales (thousand megawatthours)..... | 40,864 | 14,962 | 0 | 24,150 | 0 | 79,975 |
| Percentage of Retail Sales..... | 51.10 | 18.71 | .00 | 30.20 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,678 | 560 | 0 | 1,156 | 0 | 3,393 |
| Percentage of Revenue..... | 49.44 | 16.49 | .00 | 34.07 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 4.11 | 3.74 | .00 | 4.79 | 0 | 4.24 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Louisiana | | |
| North American Electric Reliability Council (NERC) Region(s) | | SPP/SERC |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 21,722 | 14 |
| Utility..... | 14,165 | 17 |
| Nonutility..... | 7,557 | 10 |
| Net Generation (megawatthours) | 87,894,382 | 17 |
| Utility..... | 50,378,001 | 21 |
| Nonutility..... | 37,516,381 | 8 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 52,806 | 17 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,212 | 23 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 74,681,020 | 18 |
| Utility Retail Electricity Sales (megawatthours) | 74,681,020 | 18 |
| Direct Use (megawatthours)..... | 22,182,682 | 3 |
| Average Retail Price (cents/kWh)..... | 6.96 | 21 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|---------------------------|----------------------|--------------------------|---------------------|
| Louisiana | | | |
| 1. Willow Glen..... | Petroleum, Gas | Entergy Gulf States Inc | 1,842 |
| 2. Big Cajun 2..... | Other | Louisiana Generating LLC | 1,783 |
| 3. Nine Mile Point | Petroleum, Gas | Entergy Louisiana Inc | 1,668 |
| 4. Little Gypsy | Petroleum, Gas | Entergy Louisiana Inc | 1,195 |
| 5. Waterford 3 | Nuclear | Entergy Louisiana Inc | 1,093 |
| 6. Riverbend | Nuclear | Entergy Gulf States Inc | 980 |
| 7. Rodemacher | Petroleum, Gas, Coal | CLECO Power LLC | 963 |
| 8. R S Nelson..... | Petroleum, Gas, Coal | Entergy Gulf States Inc | 849 |
| 9. Michoud | Petroleum, Gas | Entergy New Orleans Inc | 840 |
| 10. Waterford 1 & 2 | Petroleum, Gas | Entergy Louisiana Inc | 811 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|-----------|
| Louisiana | | | | | |
| A. Entergy Louisiana, Inc | 26,724,868 | 7,734,168 | 5,030,594 | 13,493,100 | 467,006 |
| B. Entergy Gulf States, Inc | 18,325,821 | 4,140,784 | 4,062,525 | 9,919,220 | 203,292 |
| C. Cleco Power, LLC | 7,986,968 | 3,145,844 | 1,656,412 | 2,652,381 | 532,331 |
| D. Entergy New Orleans, Inc..... | 5,494,055 | 1,943,740 | 2,143,725 | 406,415 | 1,000,175 |
| E. Southwestern Electric Power Co..... | 5,106,743 | 2,077,857 | 1,724,859 | 1,096,225 | 207,802 |
| Total | 63,638,455 | 19,042,393 | 14,618,115 | 27,567,341 | 2,410,606 |
| Percentage of Utility Sales..... | 85 | 74 | 82 | 97 | 93 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Louisiana | | | | | | | |
| Coal..... | 3,343 | 3,453 | 1,723 | -7.1 | 17.2 | 17.2 | 7.9 |
| Petroleum..... | 16 | 16 | 11 | -4.1 | .1 | .1 | .1 |
| Natural Gas..... | 1,941 | 1,922 | 1,238 | -4.9 | 10.0 | 9.6 | 5.7 |
| Dual Fired..... | 9,393 | 9,748 | 9,121 | -.3 | 48.3 | 48.5 | 42.0 |
| Nuclear..... | 2,006 | 2,011 | 2,073 | .4 | 10.3 | 10.0 | 9.5 |
| Total Utility..... | 16,699 | 17,150 | 14,165 | -1.8 | 85.9 | 85.3 | 65.2 |
| Coal..... | W | W | 1,783 | W | W | W | 8.2 |
| Petroleum..... | 0 | 0 | 43 | .0 | .0 | .0 | .2 |
| Natural Gas..... | 1,580 | 1,613 | 4,738 | 13.0 | 8.1 | 8.0 | 21.8 |
| Other Gases..... | 82 | 236 | 64 | -2.8 | .4 | 1.2 | .3 |
| Dual Fired..... | 379 | 369 | 462 | 2.2 | 1.9 | 1.8 | 2.1 |
| Hydroelectric..... | W | W | 192 | W | W | W | .9 |
| Other Renewables..... | W | W | 253 | W | W | W | 1.2 |
| Other..... | 21 | 21 | 22 | .3 | .1 | .1 | .1 |
| Total Nonutility..... | 2,736 | 2,954 | 7,556 | 11.9 | 14.1 | 14.7 | 34.8 |
| Coal..... | W | W | 3,506 | W | W | W | 16.1 |
| Petroleum..... | 16 | 16 | 54 | 14.4 | .1 | .1 | .2 |
| Natural Gas..... | 3,521 | 3,535 | 5,976 | 6.1 | 18.1 | 17.6 | 27.5 |
| Other Gases..... | 82 | 236 | 64 | -2.8 | .4 | 1.2 | .3 |
| Dual Fired..... | 9,771 | 10,117 | 9,582 | -.2 | 50.3 | 50.3 | 44.1 |
| Nuclear..... | 2,006 | 2,011 | 2,073 | .4 | 10.3 | 10.0 | 9.5 |
| Hydroelectric..... | W | W | 192 | W | W | W | .9 |
| Other Renewables..... | W | W | 253 | W | W | W | 1.2 |
| Other..... | 21 | 21 | 22 | .3 | .1 | .1 | .1 |
| Total Industry..... | 19,435 | 20,104 | 21,721 | 1.2 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Louisiana | | | | | | | |
| Coal..... | 19,795,693 | 18,632,666 | 10,917,220 | -6.4 | 27.0 | 24.0 | 12.4 |
| Petroleum..... | 482,819 | 273,308 | 1,722,244 | 15.2 | .7 | .4 | 2.0 |
| Natural Gas..... | 24,554,198 | 23,972,316 | 20,402,402 | -2.0 | 33.5 | 30.8 | 23.2 |
| Nuclear..... | 10,355,520 | 15,764,823 | 17,336,135 | 5.9 | 14.1 | 20.3 | 19.7 |
| Total Utility..... | 55,188,230 | 58,643,113 | 50,378,001 | -1.0 | 75.2 | 75.4 | 57.3 |
| Coal..... | W | W | 11,050,926 | W | W | W | 12.6 |
| Petroleum..... | W | W | 1,727,697 | W | W | W | 2.0 |
| Natural Gas..... | 12,423,600 | 12,592,458 | 19,970,356 | 5.4 | 16.9 | 16.2 | 22.7 |
| Other Gases..... | 1,162,816 | 844,588 | 440,544 | -10.2 | 1.6 | 1.1 | .5 |
| Hydroelectric..... | 656,492 | 963,924 | 732,217 | 1.2 | .9 | 1.2 | .8 |
| Other Renewable..... | 2,614,031 | 2,903,762 | 2,747,548 | .6 | 3.6 | 3.7 | 3.1 |
| Other..... | 702,002 | 293,542 | 847,094 | 2.1 | 1.0 | .4 | 1.0 |
| Total Nonutility..... | 18,185,893 | 19,096,783 | 37,516,381 | 8.4 | 24.8 | 24.6 | 42.7 |
| Coal..... | W | W | 21,968,146 | W | W | W | 25.0 |
| Petroleum..... | W | W | 3,449,941 | W | W | W | 3.9 |
| Natural Gas..... | 36,977,798 | 36,564,774 | 40,372,758 | 1.0 | 50.4 | 47.0 | 45.9 |
| Other Gases..... | 1,162,816 | 844,588 | 440,544 | -10.2 | 1.6 | 1.1 | .5 |
| Nuclear..... | 10,355,520 | 15,764,823 | 17,336,135 | 5.9 | 14.1 | 20.3 | 19.7 |
| Hydroelectric..... | 656,492 | 963,924 | 732,217 | 1.2 | .9 | 1.2 | .8 |
| Other Renewable..... | 2,614,031 | 2,903,762 | 2,747,548 | .6 | 3.6 | 3.7 | 3.1 |
| Other..... | 702,002 | 293,542 | 847,094 | 2.1 | 1.0 | .4 | 1.0 |
| Total Industry..... | 73,374,123 | 77,739,896 | 87,894,382 | 2.0 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Louisiana | | | | |
| Coal (2001 cents per million Btu)..... | 175.2 | 158.7 | 130.9 | -3.2 |
| Average heat value (Btu per pound)..... | 8,122 | 8,171 | 7,885 | -.3 |
| Average sulfur Content(percent)..... | .5 | .6 | .7 | 4.5 |
| Petroleum (2001 cents per million Btu)..... | 442.8 | 342.5 | 519.0 | 1.8 |
| Average heat value (Btu per gallon)..... | 141,952 | 147,223 | 151,064 | .7 |
| Average sulfur Content(percent)..... | 1.1 | .7 | .9 | -2.4 |
| Gas (2001 cents per million Btu)..... | 208.7 | 295.2 | 413.2 | 7.9 |
| Average heat value (Btu per cubic foot)..... | 1043.2 | 1043.4 | 1040.2 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|------------------|--------|--------|--------|--|
| Louisiana | | | | |
| Sulfur Dioxide | | | | |
| Coal | 110 | 87 | NA | NA |
| Petroleum | 43 | 70 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 6 | 7 | NA | NA |
| Total | 159 | 164 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 93 | 47 | NA | NA |
| Petroleum | 3 | 7 | NA | NA |
| Gas | 43 | 51 | NA | NA |
| Other | 2 | 3 | NA | NA |
| Total | 141 | 107 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 22,543 | 21,599 | 25,225 | 1.3 |
| Petroleum | 1,267 | 2,114 | 3,750 | 12.8 |
| Gas | 22,816 | 22,999 | 23,831 | .5 |
| Other | * | 0 | 0 | -100.0 |
| Total | 46,625 | 46,712 | 52,806 | 1.4 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Louisiana | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 21,188 | 24,311 | 25,800 | 2.2 | 32.5 | 32.3 | 34.5 |
| Commercial | 13,839 | 15,920 | 17,722 | 2.8 | 21.3 | 21.1 | 23.7 |
| Industrial | 27,466 | 32,544 | 28,563 | .4 | 42.2 | 43.2 | 38.3 |
| Other | 2,605 | 2,494 | 2,596 | * | 4.0 | 3.3 | 3.5 |
| Total | 65,098 | 75,269 | 74,681 | 1.5 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,817 | 1,923 | 2,044 | 1.3 | 40.7 | 40.2 | 39.3 |
| Commercial | 1,135 | 1,188 | 1,343 | 1.9 | 25.4 | 24.8 | 25.8 |
| Industrial | 1,323 | 1,472 | 1,595 | 2.1 | 29.6 | 30.8 | 30.7 |
| Other | 191 | 203 | 219 | 1.5 | 4.3 | 4.3 | 4.2 |
| Total | 4,465 | 4,786 | 5,200 | 1.7 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 8.57 | 7.91 | 7.92 | -.9 | NA | NA | NA |
| Commercial | 8.20 | 7.46 | 7.58 | -.9 | NA | NA | NA |
| Industrial | 4.82 | 4.52 | 5.58 | 1.7 | NA | NA | NA |
| Other | 7.35 | 8.15 | 8.43 | 1.5 | NA | NA | NA |
| Total | 6.86 | 6.36 | 6.96 | .2 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Louisiana | | | | | | |
| Number of Entities | 4 | 24 | 0 | 12 | 0 | 40 |
| Number of Retail Customers..... | 1,417,517 | 315,335 | 0 | 352,234 | 0 | 2,085,086 |
| Retail Sales (thousand megawatthours)..... | 58,532 | 9,254 | 0 | 6,895 | 0 | 74,681 |
| Percentage of Retail Sales..... | 78.38 | 12.39 | .00 | 9.23 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 4,161 | 575 | 0 | 464 | 0 | 5,200 |
| Percentage of Revenue | 80.02 | 11.06 | .00 | 8.91 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.11 | 6.22 | .00 | 6.72 | 0 | 6.96 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Maine | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 4,210 | 42 |
| Utility..... | 17 | 49 |
| Nonutility..... | 4,194 | 15 |
| Net Generation (megawatthours)..... | 19,564,815 | 42 |
| Nonutility..... | 19,564,815 | 14 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 6,649 | 43 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 215 | 45 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 11,835,722 | 41 |
| Utility Retail Electricity Sales (megawatthours) | 3,984,671 | 51 |
| ESP Retail Electricity Sales (megawatthours) | 7,851,051 | 6 |
| Direct Use (megawatthours)..... | 3,945,743 | 10 |
| Average Retail Price (cents/kWh)..... | 10.73 | 8 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------------|----------------|--------------------------------|---------------------|
| Maine | | | |
| 1. William F Wyman | Other | FPL Energy Wyman LLC | 787 |
| 2. Westbrook Energy Cent | Other | Calpine Eastern Corp | 506 |
| 3. Maine Independence..... | Other | Casco Bay Energy Co LLC | 471 |
| 4. Rumford Power Associa..... | Other | Rumford Power Associates LP | 254 |
| 5. Champion Clean Energy | Other | Bucksport Energy&Internt Paper | 176 |
| 6. Androscoggin Cogen | Other | Calpine Androscoggin Energy | 133 |
| 7. Great Northern Paper..... | Other, Hydro | Great Northern Paper Inc | 125 |
| 8. Somerset..... | Other | S D Warren Co | 115 |
| 9. Millinocket..... | Other | Great Northern Paper Inc | 103 |
| 10. Mason Steam..... | Other | FPL Energy Mason LLC | 96 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|--------|
| Maine | | | | | |
| A. Energy Atlantic LLC..... | 4,011,540 | 3,060,079 | 614,156 | 337,305 | 0 |
| B. Central Maine Power Company..... | 2,004,628 | 69 | 1,468,704 | 533,477 | 2,378 |
| C. Bangor Hydro-Electric Company..... | 1,601,409 | 546,143 | 566,504 | 480,025 | 8,737 |
| D. WPS Energy Services, Inc | 1,468,730 | 407,764 | 139,585 | 919,788 | 1,593 |
| E. Enron Energy Services, Inc..... | 1,122,955 | 0 | 1,122,955 | 0 | 0 |
| Total | 10,209,262 | 4,014,055 | 3,911,904 | 2,270,595 | 12,708 |
| Percentage of Utility Sales..... | 86 | 85 | 87 | 87 | 66 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
 (Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Maine | | | | | | | |
| Petroleum..... | 1,115 | 1,069 | 17 | -37.4 | 29.6 | 28.5 | 0.4 |
| Nuclear..... | 870 | 870 | 0 | -100.0 | 23.1 | 23.2 | .0 |
| Hydroelectric..... | 420 | 416 | 0 | -100.0 | 11.2 | 11.1 | .0 |
| Other Renewables..... | 0 | 32 | 0 | .0 | .0 | .9 | .0 |
| Total Utility..... | 2,405 | 2,387 | 17 | -42.5 | 63.9 | 63.7 | .4 |
| Coal..... | W | W | 85 | W | W | W | 2.0 |
| Petroleum..... | W | W | 1,046 | W | W | W | 24.9 |
| Natural Gas..... | W | W | 1,338 | W | W | W | 31.8 |
| Dual Fired..... | W | W | 321 | W | W | W | 7.6 |
| Hydroelectric..... | 352 | 354 | 681 | 7.6 | 9.3 | 9.5 | 16.2 |
| Other Renewables..... | 713 | 714 | 720 | .1 | 19.0 | 19.1 | 17.1 |
| Total Nonutility..... | 1,358 | 1,360 | 4,191 | 13.3 | 36.1 | 36.3 | 99.6 |
| Coal..... | W | W | 85 | W | W | W | 2.0 |
| Petroleum..... | W | W | 1,063 | W | W | W | 25.3 |
| Natural Gas..... | W | W | 1,338 | W | W | W | 31.8 |
| Dual Fired..... | W | W | 321 | W | W | W | 7.6 |
| Nuclear..... | 870 | 870 | 0 | -100.0 | 23.1 | 23.2 | .0 |
| Hydroelectric..... | 772 | 770 | 681 | -1.4 | 20.5 | 20.5 | 16.2 |
| Other Renewables..... | 713 | 746 | 720 | .1 | 19.0 | 19.9 | 17.1 |
| Total Industry..... | 3,763 | 3,747 | 4,208 | 1.2 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
 (Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Maine | | | | | | | |
| Petroleum..... | 1,261,746 | 621,755 | 0 | -100.0 | 8.0 | 4.2 | 0.0 |
| Nuclear..... | 5,357,999 | 5,062,017 | 0 | -100.0 | 34.2 | 33.9 | .0 |
| Hydroelectric..... | 1,715,107 | 2,115,695 | 0 | -100.0 | 10.9 | 14.2 | .0 |
| Other Renewable..... | 0 | 682 | 0 | .0 | .0 | .0 | .0 |
| Total Utility..... | 8,334,852 | 7,800,149 | 0 | -100.0 | 53.1 | 52.2 | .0 |
| Coal..... | W | W | 528,412 | W | W | W | 2.7 |
| Petroleum..... | 925,336 | 1,039,100 | 2,101,517 | 9.5 | 5.9 | 7.0 | 10.7 |
| Natural Gas..... | W | W | 10,052,945 | W | W | W | 51.4 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | 1,797,500 | 2,041,699 | 2,645,123 | 4.4 | 11.5 | 13.7 | 13.5 |
| Other Renewable..... | 4,041,326 | 3,535,132 | 4,088,418 | .1 | 25.8 | 23.7 | 20.9 |
| Other..... | W | W | 148,400 | W | W | W | .8 |
| Total Nonutility..... | 7,348,693 | 7,134,224 | 19,564,815 | 11.5 | 46.9 | 47.8 | 100.0 |
| Coal..... | W | W | 528,412 | W | W | W | 2.7 |
| Petroleum..... | 2,187,082 | 1,660,855 | 2,101,517 | -4 | 13.9 | 11.1 | 10.7 |
| Natural Gas..... | W | W | 10,052,945 | W | W | W | 51.4 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Nuclear..... | 5,357,999 | 5,062,017 | 0 | -100.0 | 34.2 | 33.9 | .0 |
| Hydroelectric..... | 3,512,607 | 4,157,394 | 2,645,123 | -3.1 | 22.4 | 27.8 | 13.5 |
| Other Renewable..... | 4,041,326 | 3,535,814 | 4,088,418 | .1 | 25.8 | 23.7 | 20.9 |
| Other..... | W | W | 148,400 | W | W | W | .8 |
| Total Industry..... | 15,683,545 | 14,934,373 | 19,564,815 | 2.5 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|------|--|
| Maine | | | | |
| Petroleum (2001 cents per million Btu) | 261.2 | 307.7 | 0.0 | -100.0 |
| Average heat value (Btu per gallon) | 150,704 | 150,391 | 0 | -100.0 |
| Average sulfur Content(percent) | .9 | 1.4 | .0 | -100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|-------|-------|-------|--|
| Maine | | | | |
| Sulfur Dioxide | | | | |
| Coal | 2 | 2 | NA | NA |
| Petroleum | 8 | 14 | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 4 | 3 | NA | NA |
| Total | 14 | 19 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 3 | 2 | NA | NA |
| Petroleum | 3 | 3 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 4 | 3 | NA | NA |
| Total | 10 | 8 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 879 | 573 | 483 | -6.4 |
| Petroleum | 1,963 | 1,590 | 1,934 | -2 |
| Gas | 22 | 7 | 4,148 | 79.0 |
| Other | 69 | 86 | 85 | 2.4 |
| Total | 2,933 | 2,256 | 6,649 | 9.5 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Maine | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 3,830 | 3,679 | 4,737 | 2.4 | 33.3 | 31.4 | 40.0 |
| Commercial..... | 2,730 | 3,212 | 4,477 | 5.6 | 23.8 | 27.4 | 37.8 |
| Industrial..... | 4,753 | 4,772 | 2,603 | -6.5 | 41.4 | 40.7 | 22.0 |
| Other..... | 171 | 64 | 19 | -21.6 | 1.5 | .5 | .2 |
| Total..... | 11,483 | 11,726 | 11,836 | .3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 497 | 485 | 552 | 1.2 | 41.9 | 41.8 | 43.5 |
| Commercial..... | 289 | 348 | 481 | 5.8 | 24.4 | 30.0 | 37.9 |
| Industrial..... | 374 | 313 | 224 | -5.5 | 31.6 | 26.9 | 17.7 |
| Other..... | 25 | 15 | 13 | -7.4 | 2.1 | 1.3 | 1.0 |
| Total..... | 1,185 | 1,162 | 1,270 | .8 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.97 | 13.18 | 11.65 | -1.2 | NA | NA | NA |
| Commercial..... | 10.58 | 10.85 | 10.75 | .2 | NA | NA | NA |
| Industrial..... | 7.87 | 6.56 | 8.62 | 1.0 | NA | NA | NA |
| Other..... | 14.73 | 24.13 | 65.71 | 18.1 | NA | NA | NA |
| Total..... | 10.32 | 9.91 | 10.73 | .4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| Maine | | | | | | |
| Number of Entities..... | 2 | 6 | 0 | 3 | 9 | 20 |
| Number of Retail Customers..... | 134,179 | 9,859 | 0 | 2,316 | 602,169 | 748,523 |
| Retail Sales (thousand megawatthours)..... | 3,606 | 352 | 0 | 27 | 7,851 | 11,836 |
| Percentage of Retail Sales..... | 30.47 | 2.97 | .00 | .23 | 66.33 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 803 | 54 | 0 | 9 | 405 | 1,270 |
| Percentage of Revenue..... | 63.18 | 4.22 | .00 | .71 | 31.90 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 22.26 | 15.23 | .00 | 33.23 | 0 | 10.73 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Maryland | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR/MACC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 11,929 | 25 |
| Utility..... | 70 | 48 |
| Nonutility..... | 11,859 | 7 |
| Net Generation (megawatthours) | 49,062,340 | 26 |
| Utility..... | 88,150 | 48 |
| Nonutility..... | 48,974,190 | 7 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 33,358 | 32 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,413 | 3 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 59,799,687 | 24 |
| Utility Retail Electricity Sales (megawatthours) | 59,182,756 | 24 |
| ESP Retail Electricity Sales (megawatthours)..... | 616,931 | 14 |
| Direct Use (megawatthours)..... | -982,612 | 48 |
| Average Retail Price (cents/kWh)..... | 6.66 | 23 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------|----------------|--------------------------------|---------------------|
| Maryland | | | |
| 1. Chalk Point | Other | Mirant Chalk Point LLC | 2,428 |
| 2. Calvert Cliffs | Nuclear | Calvert Cliffs Nuclear PP Inc | 1,675 |
| 3. Morgantown | Other | Mirant Mid-Atlantic LLC | 1,492 |
| 4. Brandon Shores..... | Other | Constellation Power Source Gen | 1,286 |
| 5. H A Wagner..... | Other | Constellation Power Source Gen | 1,106 |
| 6. Dickerson | Other | Mirant Mid-Atlantic LLC | 853 |
| 7. Conowingo | Hydro | Susquehanna Electric Co | 512 |
| 8. C P Crane..... | Other | Constellation Power Source Gen | 399 |
| 9. Peryman | Other | Constellation Power Source Gen | 360 |
| 10. Riverside..... | Other | Constellation Power Source Gen | 251 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| Maryland | | | | | |
| A. Baltimore Gas & Electric Co..... | 30,086,812 | 11,713,768 | 13,691,342 | 4,226,218 | 455,484 |
| B. Potomac Electric Power Company..... | 12,171,023 | 5,121,032 | 6,950,959 | 40,248 | 58,784 |
| C. The Potomac Edison Company..... | 8,765,648 | 2,693,079 | 1,661,404 | 4,397,118 | 14,047 |
| D. Delmarva Power & Light Company..... | 3,913,965 | 1,917,350 | 1,519,021 | 465,805 | 11,789 |
| E. Southern Maryland El Coop, Inc | 2,789,934 | 1,665,066 | 764,340 | 179,625 | 180,903 |
| Total | 57,727,382 | 23,110,295 | 24,587,066 | 9,309,014 | 721,007 |
| Percentage of Utility Sales..... | 97 | 96 | 97 | 96 | 97 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Maryland | | | | | | | |
| Coal..... | 4,617 | 4,636 | 0 | -100.0 | 41.4 | 40.1 | 0.0 |
| Petroleum..... | 1,731 | 1,283 | 50 | -32.6 | 15.5 | 11.1 | .4 |
| Natural Gas..... | 981 | 1,352 | 0 | -100.0 | 8.8 | 11.7 | .0 |
| Dual Fired..... | 1,455 | 1,481 | 21 | -37.6 | 13.1 | 12.8 | .2 |
| Nuclear..... | 1,650 | 1,675 | 0 | -100.0 | 14.8 | 14.5 | .0 |
| Hydroelectric..... | 428 | 530 | 0 | -100.0 | 3.8 | 4.6 | .0 |
| Total Utility..... | 10,862 | 10,957 | 70 | -42.9 | 97.4 | 94.7 | .6 |
| Coal..... | W | W | 4,586 | W | W | W | 38.4 |
| Petroleum..... | W | W | 983 | W | W | W | 8.2 |
| Natural Gas..... | W | W | 406 | W | W | W | 3.4 |
| Other Gases..... | W | W | 153 | W | W | W | 1.3 |
| Dual Fired..... | W | W | 3,344 | W | W | W | 28.0 |
| Nuclear..... | 0 | 0 | 1,675 | .0 | .0 | .0 | 14.0 |
| Hydroelectric..... | 0 | 0 | 530 | .0 | .0 | .0 | 4.4 |
| Other Renewables..... | 65 | 129 | 183 | 12.2 | .6 | 1.1 | 1.5 |
| Total Nonutility..... | 290 | 613 | 11,859 | 51.1 | 2.6 | 5.3 | 99.4 |
| Coal..... | W | W | 4,586 | W | W | W | 38.4 |
| Petroleum..... | W | W | 1,033 | W | W | W | 8.7 |
| Natural Gas..... | W | W | 406 | W | W | W | 3.4 |
| Other Gases..... | W | W | 153 | W | W | W | 1.3 |
| Dual Fired..... | W | W | 3,365 | W | W | W | 28.2 |
| Nuclear..... | 1,650 | 1,675 | 1,675 | .2 | 14.8 | 14.5 | 14.0 |
| Hydroelectric..... | 428 | 530 | 530 | 2.4 | 3.8 | 4.6 | 4.4 |
| Other Renewables..... | 65 | 129 | 183 | 12.2 | .6 | 1.1 | 1.5 |
| Total Industry..... | 11,152 | 11,570 | 11,930 | .8 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
 (Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Maryland | | | | | | | |
| Coal..... | 23,625,314 | 27,780,141 | 0 | -100.0 | 57.4 | 60.0 | 0.0 |
| Petroleum..... | 2,611,820 | 1,401,195 | 87,790 | -31.4 | 6.3 | 3.0 | .2 |
| Natural Gas..... | 860,815 | 648,976 | 360 | -57.9 | 2.1 | 1.4 | .0 |
| Nuclear..... | 10,663,950 | 12,092,768 | 0 | -100.0 | 25.9 | 26.1 | .0 |
| Hydroelectric..... | 1,824,659 | 2,457,463 | 0 | -100.0 | 4.4 | 5.3 | .0 |
| Total Utility..... | 39,586,558 | 44,380,543 | 88,150 | -49.3 | 96.1 | 95.9 | .2 |
| Coal..... | W | W | 28,379,409 | W | W | W | 57.8 |
| Petroleum..... | W | W | 2,933,847 | W | W | W | 6.0 |
| Natural Gas..... | W | W | 1,760,452 | W | W | W | 3.6 |
| Other Gases..... | W | W | 439,980 | W | W | W | .9 |
| Nuclear..... | 0 | 0 | 13,656,267 | .0 | .0 | .0 | 27.8 |
| Hydroelectric..... | 0 | 0 | 1,183,518 | .0 | .0 | .0 | 2.4 |
| Other Renewable..... | 504,655 | 733,391 | 620,717 | 2.3 | 1.2 | 1.6 | 1.3 |
| Total Nonutility..... | 1,590,800 | 1,894,074 | 48,974,190 | 46.3 | 3.9 | 4.1 | 99.8 |
| Coal..... | W | W | 28,379,409 | W | W | W | 57.8 |
| Petroleum..... | W | W | 3,021,637 | W | W | W | 6.2 |
| Natural Gas..... | W | W | 1,760,812 | W | W | W | 3.6 |
| Other Gases..... | W | W | 439,980 | W | W | W | .9 |
| Nuclear..... | 10,663,950 | 12,092,768 | 13,656,267 | 2.8 | 25.9 | 26.1 | 27.8 |
| Hydroelectric..... | 1,824,659 | 2,457,463 | 1,183,518 | -4.7 | 4.4 | 5.3 | 2.4 |
| Other Renewable..... | 504,655 | 733,391 | 620,717 | 2.3 | 1.2 | 1.6 | 1.3 |
| Total Industry..... | 41,177,358 | 46,274,617 | 49,062,340 | 2.0 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|------|--|
| Maryland | | | | |
| Coal (2001 cents per million Btu)..... | 182.1 | 156.6 | -- | NA |
| Average heat value (Btu per pound)..... | 12,753 | 12,879 | -- | NA |
| Average sulfur Content(percent)..... | 1.4 | 1.1 | -- | NA |
| Petroleum (2001 cents per million Btu)..... | 262.9 | 347.5 | -- | NA |
| Average heat value (Btu per gallon)..... | 150,588 | 150,177 | -- | NA |
| Average sulfur Content(percent)..... | 1.5 | 1.1 | -- | NA |
| Gas (2001 cents per million Btu)..... | 291.1 | 313.0 | -- | NA |
| Average heat value (Btu per cubic foot)..... | 1045.0 | 1041.1 | -- | NA |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Maryland | | | | |
| Sulfur Dioxide | | | | |
| Coal | 232 | 249 | NA | NA |
| Petroleum | 25 | 9 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 258 | 259 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 83 | 106 | NA | NA |
| Petroleum | 4 | 3 | NA | NA |
| Gas | 23 | 31 | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 111 | 141 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 23,713 | 28,079 | 28,750 | 2.2 |
| Petroleum | 2,854 | 1,589 | 2,847 | * |
| Gas | 1,304 | 1,349 | 1,615 | 2.4 |
| Other | 65 | 113 | 145 | 9.3 |
| Total | 27,936 | 31,130 | 33,358 | 2.0 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Maryland | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 19,762 | 22,986 | 24,017 | 2.2 | 38.8 | 40.3 | 40.2 |
| Commercial | 10,770 | 23,126 | 25,381 | 10.0 | 21.1 | 40.6 | 42.4 |
| Industrial | 19,768 | 10,098 | 9,660 | -7.6 | 38.8 | 17.7 | 16.1 |
| Other | 689 | 787 | 742 | .8 | 1.3 | 1.4 | 1.2 |
| Total | 50,989 | 56,998 | 59,800 | 1.8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,797 | 1,989 | 1,850 | .3 | 45.4 | 47.9 | 46.4 |
| Commercial | 871 | 1,656 | 1,629 | 7.2 | 22.0 | 39.8 | 40.9 |
| Industrial | 1,218 | 439 | 426 | -11.0 | 30.8 | 10.6 | 10.7 |
| Other | 70 | 71 | 79 | 1.3 | 1.8 | 1.7 | 2.0 |
| Total | 3,957 | 4,155 | 3,983 | .1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 9.09 | 8.65 | 7.70 | -1.8 | NA | NA | NA |
| Commercial | 8.09 | 7.16 | 6.42 | -2.5 | NA | NA | NA |
| Industrial | 6.16 | 4.35 | 4.41 | -3.7 | NA | NA | NA |
| Other | 10.18 | 9.05 | 10.60 | .4 | NA | NA | NA |
| Total | 7.76 | 7.29 | 6.66 | -1.7 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Maryland | | | | | | |
| Number of Entities | 2 | 7 | 0 | 3 | 7 | 19 |
| Number of Retail Customers..... | 1,373,725 | 701,533 | 0 | 165,318 | 9,781 | 2,250,357 |
| Retail Sales (thousand megawatthours)..... | 38,852 | 16,811 | 0 | 3,519 | 617 | 59,800 |
| Percentage of Retail Sales..... | 64.97 | 28.11 | .00 | 5.88 | 1.03 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 2,451 | 1,243 | 0 | 261 | 28 | 3,983 |
| Percentage of Revenue | 61.53 | 31.20 | .00 | 6.56 | .71 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.31 | 7.39 | .00 | 7.42 | 0 | 6.66 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Massachusetts | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 11,842 | 26 |
| Utility..... | 993 | 44 |
| Nonutility..... | 10,849 | 8 |
| Net Generation (megawatthours) | 38,478,433 | 34 |
| Utility..... | 1,566,491 | 47 |
| Nonutility..... | 36,911,942 | 9 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 24,730 | 35 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,155 | 6 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 52,662,741 | 25 |
| Utility Retail Electricity Sales (megawatthours) | 49,155,578 | 26 |
| ESP Retail Electricity Sales (megawatthours)..... | 3,507,163 | 7 |
| Direct Use (megawatthours)..... | -1,852,691 | 50 |
| Average Retail Price (cents/kWh)..... | 11.51 | 4 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|------------------------------|----------------|--------------------------------|---------------------|
| Massachusetts | | | |
| 1. Brayton..... | Other | U S Gen New England Inc | 1,506 |
| 2. Canal | Other | Mirant Canal LLC | 1,083 |
| 3. Northfield Mountain | Hydro | Northeast Generating Co | 1,080 |
| 4. Mystic..... | Other | Sithe New England Holdings LLC | 862 |
| 5. Salem Harbor | Other | U S Gen New England Inc | 751 |
| 6. New Boston | Other | Sithe New England Holdings LLC | 721 |
| 7. Pilgrim Nuclear..... | Nuclear | Entergy Nuclear Generation Co | 667 |
| 8. Bear Swamp..... | Hydro | U S Gen New England Inc | 570 |
| 9. Stony Brook..... | Petroleum | Massachusetts Mun Whls Elec Co | 435 |
| 10. Blackstone | Petroleum | ANP Blackstone Energy Co | 434 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|---------|
| Massachusetts | | | | | |
| A. Massachusetts Electric Company..... | 19,241,159 | 7,699,899 | 7,745,807 | 3,705,544 | 89,909 |
| B. Boston Edison Company | 12,993,924 | 3,955,650 | 7,604,459 | 1,300,058 | 133,757 |
| C. Commonwealth Electric Company..... | 3,810,313 | 1,855,794 | 1,596,296 | 342,800 | 15,423 |
| D. Western Massachusetts Elec Co | 3,757,672 | 1,388,860 | 1,453,139 | 891,919 | 23,754 |
| E. NewEnergy Midwest LLC..... | 2,044,251 | 0 | 2,044,251 | 0 | 0 |
| Total | 41,847,319 | 14,900,203 | 20,443,952 | 6,240,321 | 262,843 |
| Percentage of Utility Sales..... | 79 | 83 | 82 | 69 | 38 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Massachusetts | | | | | | | |
| Coal..... | 1,684 | 1,730 | 145 | -23.8 | 15.7 | 15.4 | 1.2 |
| Petroleum..... | 2,567 | 1,877 | 213 | -24.1 | 24.0 | 16.8 | 1.8 |
| Natural Gas..... | 118 | 867 | 115 | -.3 | 1.1 | 7.7 | 1.0 |
| Dual Fired..... | 2,606 | 2,368 | 475 | -17.2 | 24.3 | 21.1 | 4.0 |
| Nuclear..... | 665 | 669 | 0 | -100.0 | 6.2 | 6.0 | .0 |
| Hydroelectric..... | 1,855 | 1,854 | 45 | -33.9 | 17.3 | 16.5 | .4 |
| Other Renewables..... | 0 | * | 0 | .0 | .0 | .0 | .0 |
| Total Utility..... | 9,494 | 9,365 | 993 | -22.2 | 88.6 | 83.6 | 8.4 |
| Coal..... | W | W | 1,500 | W | W | W | 12.7 |
| Petroleum..... | W | W | 1,953 | W | W | W | 16.5 |
| Natural Gas..... | 66 | 381 | 2,417 | 49.3 | .6 | 3.4 | 20.4 |
| Dual Fired..... | 741 | 935 | 2,146 | 12.5 | 6.9 | 8.3 | 18.1 |
| Nuclear..... | 0 | 0 | 667 | .0 | .0 | .0 | 5.6 |
| Hydroelectric..... | W | W | 1,851 | W | W | W | 15.6 |
| Other Renewables..... | 275 | 306 | 315 | 1.5 | 2.6 | 2.7 | 2.7 |
| Total Nonutility..... | 1,222 | 1,839 | 10,849 | 27.5 | 11.4 | 16.4 | 91.6 |
| Coal..... | W | W | 1,645 | W | W | W | 13.9 |
| Petroleum..... | W | W | 2,166 | W | W | W | 18.3 |
| Natural Gas..... | 184 | 1,248 | 2,532 | 33.8 | 1.7 | 11.1 | 21.4 |
| Dual Fired..... | 3,348 | 3,303 | 2,621 | -2.7 | 31.2 | 29.5 | 22.1 |
| Nuclear..... | 665 | 669 | 667 | .0 | 6.2 | 6.0 | 5.6 |
| Hydroelectric..... | W | W | 1,896 | W | W | W | 16.0 |
| Other Renewables..... | 275 | 307 | 315 | 1.5 | 2.6 | 2.7 | 2.7 |
| Total Industry..... | 10,716 | 11,204 | 11,842 | 1.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Massachusetts | | | | | | | |
| Coal..... | 10,949,228 | 11,500,536 | 1,096,681 | -22.6 | 27.3 | 30.3 | 2.9 |
| Petroleum..... | 13,282,101 | 6,221,378 | 131,797 | -40.1 | 33.1 | 16.4 | .3 |
| Natural Gas..... | 3,750,925 | 4,449,799 | 218,432 | -27.1 | 9.4 | 11.7 | .6 |
| Nuclear..... | 4,741,968 | 5,324,341 | 0 | -100.0 | 11.8 | 14.0 | .0 |
| Hydroelectric..... | 114,079 | 262,823 | 119,581 | .5 | .3 | .7 | .3 |
| Total Utility..... | 32,838,301 | 27,758,877 | 1,566,491 | -28.7 | 81.9 | 73.1 | 4.1 |
| Coal..... | W | W | 9,954,652 | W | W | W | 25.9 |
| Petroleum..... | 444,215 | 295,504 | 8,379,769 | 38.6 | 1.1 | .8 | 21.8 |
| Natural Gas..... | 4,728,472 | 7,479,709 | 11,478,577 | 10.4 | 11.8 | 19.7 | 29.8 |
| Nuclear..... | 0 | 0 | 5,144,033 | .0 | .0 | .0 | 13.4 |
| Hydroelectric..... | W | W | -128,426 | W | W | W | -.3 |
| Other Renewable..... | 1,713,107 | 2,071,846 | 2,083,338 | 2.2 | 4.3 | 5.5 | 5.4 |
| Other..... | 0 | 11 | 0 | .0 | .0 | .0 | .0 |
| Total Nonutility..... | 7,249,354 | 10,195,141 | 36,911,942 | 19.8 | 18.1 | 26.9 | 95.9 |
| Coal..... | W | W | 11,051,333 | W | W | W | 28.7 |
| Petroleum..... | 13,726,316 | 6,516,882 | 8,511,566 | -5.2 | 34.2 | 17.2 | 22.1 |
| Natural Gas..... | 8,479,397 | 11,929,508 | 11,697,009 | 3.6 | 21.2 | 31.4 | 30.4 |
| Nuclear..... | 4,741,968 | 5,324,341 | 5,144,033 | .9 | 11.8 | 14.0 | 13.4 |
| Hydroelectric..... | W | W | -8,845 | W | W | W | .0 |
| Other Renewable..... | 1,713,107 | 2,071,846 | 2,083,338 | 2.2 | 4.3 | 5.5 | 5.4 |
| Other..... | 0 | 11 | 0 | .0 | .0 | .0 | .0 |
| Total Industry..... | 40,087,655 | 37,954,018 | 38,478,433 | -.5 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Massachusetts | | | | |
| Coal (2001 cents per million Btu)..... | 192.6 | 176.9 | 0.0 | -100.0 |
| Average heat value (Btu per pound)..... | 13,070 | 12,633 | 0 | -100.0 |
| Average sulfur Content(percent)..... | 1.2 | .7 | .0 | -100.0 |
| Petroleum (2001 cents per million Btu)..... | 269.8 | 313.6 | 494.0 | 6.9 |
| Average heat value (Btu per gallon)..... | 151,403 | 151,996 | 144,420 | -.5 |
| Average sulfur Content(percent)..... | 1.6 | 1.2 | .5 | -12.8 |
| Gas (2001 cents per million Btu)..... | 295.9 | 310.5 | 347.5 | 1.8 |
| Average heat value (Btu per cubic foot)..... | 1031.9 | 1036.7 | 1030.5 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|----------------------|--------|--------|--------|--|
| Massachusetts | | | | |
| Sulfur Dioxide | | | | |
| Coal | 93 | 65 | NA | NA |
| Petroleum | 114 | 41 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 208 | 107 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 39 | 21 | NA | NA |
| Petroleum | 17 | 8 | NA | NA |
| Gas | 9 | 11 | NA | NA |
| Other | 3 | 4 | NA | NA |
| Total | 68 | 44 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 10,927 | 11,429 | 10,940 | * |
| Petroleum | 11,843 | 5,488 | 7,463 | -5.0 |
| Gas | 4,555 | 6,302 | 5,931 | 3.0 |
| Other | 345 | 410 | 397 | 1.6 |
| Total | 27,669 | 23,628 | 24,730 | -1.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Massachusetts | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 15,560 | 16,256 | 17,963 | 1.6 | 34.6 | 34.4 | 34.1 |
| Commercial | 18,629 | 20,346 | 24,980 | 3.3 | 41.4 | 43.0 | 47.4 |
| Industrial | 9,663 | 10,085 | 9,032 | -8 | 21.5 | 21.3 | 17.1 |
| Other | 1,146 | 607 | 688 | -5.5 | 2.5 | 1.3 | 1.3 |
| Total | 44,998 | 47,294 | 52,663 | 1.8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,884 | 1,916 | 2,243 | 1.9 | 38.0 | 38.2 | 37.0 |
| Commercial | 1,979 | 2,118 | 2,807 | 4.0 | 39.9 | 42.2 | 46.3 |
| Industrial | 948 | 891 | 915 | -4 | 19.1 | 17.8 | 15.1 |
| Other | 147 | 92 | 98 | -4.5 | 3.0 | 1.8 | 1.6 |
| Total | 4,959 | 5,017 | 6,062 | 2.3 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 12.11 | 11.79 | 12.48 | .3 | NA | NA | NA |
| Commercial | 10.62 | 10.41 | 11.24 | .6 | NA | NA | NA |
| Industrial | 9.81 | 8.83 | 10.13 | .3 | NA | NA | NA |
| Other | 12.86 | 15.23 | 14.18 | 1.1 | NA | NA | NA |
| Total | 11.02 | 10.61 | 11.51 | .5 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Massachusetts | | | | | | |
| Number of Entities | 8 | 40 | 0 | 0 | 7 | 55 |
| Number of Retail Customers..... | 2,497,772 | 372,785 | 0 | 0 | 845 | 2,871,402 |
| Retail Sales (thousand megawatthours)..... | 41,981 | 7,175 | 0 | 0 | 3,507 | 52,663 |
| Percentage of Retail Sales..... | 79.72 | 13.62 | .00 | .00 | 6.66 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 5,127 | 710 | 0 | 0 | 224 | 6,062 |
| Percentage of Revenue | 84.58 | 11.72 | .00 | .00 | 3.70 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 12.21 | 9.90 | .00 | .00 | 0 | 11.51 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|----------------|
| Michigan | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR/MAPP/MAIN |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 26,885 | 9 |
| Utility..... | 22,831 | 8 |
| Nonutility..... | 4,054 | 16 |
| Net Generation (megawatthours) | 111,845,612 | 12 |
| Utility..... | 97,067,330 | 8 |
| Nonutility..... | 14,778,282 | 16 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 80,065 | 10 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,409 | 18 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 101,954,781 | 10 |
| Utility Retail Electricity Sales (megawatthours) | 101,770,016 | 10 |
| ESP Retail Electricity Sales (megawatthours)..... | 184,765 | 17 |
| Direct Use (megawatthours)..... | 2,733,153 | 15 |
| Average Retail Price (cents/kWh)..... | 6.98 | 20 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|------------------------|----------------------|------------------------------|---------------------|
| Michigan | | | |
| 1. Monroe | Petroleum, Coal | Detroit Edison Co | 3,014 |
| 2. Donald C Cook | Nuclear | Indiana Michigan Power Co | 2,060 |
| 3. Ludington | Hydro | Consumers Energy Co | 1,872 |
| 4. Dan E Karn | Petroleum, Gas, Coal | Consumers Energy Co | 1,791 |
| 5. Midland Cogen | Other | Midland Cogeneration Venture | 1,750 |
| 6. St Clair | Petroleum, Gas, Coal | Detroit Edison Co | 1,691 |
| 7. Belle River | Petroleum, Gas, Coal | Detroit Edison Co | 1,499 |
| 8. J H Campbell | Petroleum, Coal | Consumers Energy Co | 1,442 |
| 9. Fermi | Petroleum, Nuclear | Detroit Edison Co | 1,162 |
| 10. Greenwood | Petroleum, Gas | Detroit Edison Co | 1,010 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| Michigan | | | | | |
| A. Detroit Edison Company | 48,089,315 | 14,503,497 | 18,776,739 | 14,429,558 | 379,521 |
| B. Consumers Energy Company | 35,504,051 | 11,813,350 | 11,191,458 | 12,267,029 | 232,214 |
| C. Indiana Michigan Power Co | 2,907,942 | 1,132,727 | 723,082 | 1,040,074 | 12,059 |
| D. Wisconsin Electric Power Co | 2,744,061 | 156,914 | 141,429 | 2,443,561 | 2,157 |
| E. Lansing Board of Water & Light | 2,375,823 | 566,325 | 1,123,047 | 645,665 | 40,786 |
| Total | 91,621,192 | 28,172,813 | 31,955,755 | 30,825,887 | 666,737 |
| Percentage of Utility Sales | 90 | 87 | 92 | 91 | 74 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Michigan | | | | | | | |
| Coal..... | 11,976 | 11,793 | 11,638 | -0.3 | 47.7 | 47.3 | 43.3 |
| Petroleum..... | 1,484 | 2,370 | 1,771 | 2.0 | 5.9 | 9.5 | 6.6 |
| Natural Gas..... | 404 | 405 | 2,104 | 20.1 | 1.6 | 1.6 | 7.8 |
| Other Gases..... | 276 | 11 | 0 | -100.0 | 1.1 | .0 | .0 |
| Dual Fired..... | 2,094 | 1,281 | 1,288 | -5.3 | 8.3 | 5.1 | 4.8 |
| Nuclear..... | 3,942 | 3,987 | 3,931 | .0 | 15.7 | 16.0 | 14.6 |
| Hydroelectric..... | 2,198 | 2,137 | 2,100 | -.5 | 8.8 | 8.6 | 7.8 |
| Total Utility..... | 22,374 | 21,985 | 22,831 | .2 | 89.2 | 88.2 | 84.9 |
| Coal..... | 636 | 661 | 291 | -8.3 | 2.5 | 2.7 | 1.1 |
| Petroleum..... | W | W | 9 | W | W | W | .0 |
| Natural Gas..... | 755 | 1,798 | 3,256 | 17.6 | 3.0 | 7.2 | 12.1 |
| Dual Fired..... | 987 | 49 | 16 | -36.6 | 3.9 | .2 | .1 |
| Hydroelectric..... | W | W | 25 | W | W | W | .1 |
| Other Renewables..... | W | W | 455 | W | W | W | 1.7 |
| Total Nonutility..... | 2,712 | 2,936 | 4,053 | 4.6 | 10.8 | 11.8 | 15.1 |
| Coal..... | 12,613 | 12,454 | 11,929 | -.6 | 50.3 | 50.0 | 44.4 |
| Petroleum..... | W | W | 1,779 | W | W | W | 6.6 |
| Natural Gas..... | 1,159 | 2,204 | 5,360 | 18.5 | 4.6 | 8.8 | 19.9 |
| Other Gases..... | 276 | 11 | 0 | -100.0 | 1.1 | .0 | .0 |
| Dual Fired..... | 3,081 | 1,330 | 1,305 | -9.1 | 12.3 | 5.3 | 4.9 |
| Nuclear..... | 3,942 | 3,987 | 3,931 | .0 | 15.7 | 16.0 | 14.6 |
| Hydroelectric..... | W | W | 2,125 | W | W | W | 7.9 |
| Other Renewables..... | W | W | 455 | W | W | W | 1.7 |
| Total Industry..... | 25,086 | 24,921 | 26,884 | .8 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Michigan | | | | | | | |
| Coal..... | 61,434,530 | 66,097,259 | 66,931,691 | 1.0 | 64.4 | 58.7 | 59.8 |
| Petroleum..... | 498,159 | 651,860 | 724,313 | 4.2 | .5 | .6 | .6 |
| Natural Gas..... | 1,021,751 | 737,006 | 2,362,038 | 9.8 | 1.1 | .7 | 2.1 |
| Nuclear..... | 18,848,731 | 26,829,363 | 26,710,782 | 3.9 | 19.8 | 23.8 | 23.9 |
| Hydroelectric..... | 876,273 | 839,773 | 323,256 | -10.5 | .9 | .7 | .3 |
| Other Renewable..... | 0 | 0 | 15,250 | .0 | .0 | .0 | .0 |
| Total Utility..... | 82,679,444 | 95,155,261 | 97,067,330 | 1.8 | 86.7 | 84.6 | 86.8 |
| Coal..... | W | W | 1,331,477 | W | W | W | 1.2 |
| Petroleum..... | 130,608 | 180,890 | 25,577 | -16.6 | .1 | .2 | .0 |
| Natural Gas..... | 8,506,888 | 12,277,609 | 10,811,475 | 2.7 | 8.9 | 10.9 | 9.7 |
| Other Gases..... | 243,754 | 238,417 | 5,614 | -34.2 | .3 | .2 | .0 |
| Hydroelectric..... | 135,096 | 123,421 | 111,825 | -2.1 | .1 | .1 | .1 |
| Other Renewable..... | 1,682,788 | 2,752,736 | 2,492,293 | 4.5 | 1.8 | 2.4 | 2.2 |
| Other..... | W | W | 21 | W | W | W | .0 |
| Total Nonutility..... | 12,642,494 | 17,363,048 | 14,778,282 | 1.7 | 13.3 | 15.4 | 13.2 |
| Coal..... | W | W | 68,263,168 | W | W | W | 61.0 |
| Petroleum..... | 628,767 | 832,750 | 749,890 | 2.0 | .7 | .7 | .7 |
| Natural Gas..... | 9,528,639 | 13,014,615 | 13,173,513 | 3.7 | 10.0 | 11.6 | 11.8 |
| Other Gases..... | 243,754 | 238,417 | 5,614 | -34.2 | .3 | .2 | .0 |
| Nuclear..... | 18,848,731 | 26,829,363 | 26,710,782 | 3.9 | 19.8 | 23.8 | 23.9 |
| Hydroelectric..... | 1,011,369 | 963,194 | 435,081 | -8.9 | 1.1 | .9 | .4 |
| Other Renewable..... | 1,682,788 | 2,752,736 | 2,507,543 | 4.5 | 1.8 | 2.4 | 2.2 |
| Other..... | W | W | 21 | W | W | W | .0 |
| Total Industry..... | 95,321,938 | 112,518,309 | 111,845,612 | 1.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Michigan | | | | |
| Coal (2001 cents per million Btu)..... | 177.7 | 146.4 | 127.5 | -3.6 |
| Average heat value (Btu per pound)..... | 10,995 | 10,504 | 10,220 | -.8 |
| Average sulfur Content(percent)..... | .7 | .6 | .6 | -2.1 |
| Petroleum (2001 cents per million Btu)..... | 338.8 | 327.7 | 398.0 | 1.8 |
| Average heat value (Btu per gallon)..... | 147,081 | 212,167 | 196,686 | 3.3 |
| Average sulfur Content(percent)..... | .9 | 1.4 | 1.7 | 7.3 |
| Gas (2001 cents per million Btu)..... | 223.0 | 282.2 | 377.3 | 6.0 |
| Average heat value (Btu per cubic foot)..... | 414.5 | 273.6 | 907.5 | 9.1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Michigan | | | | |
| Sulfur Dioxide | | | | |
| Coal | 356 | 390 | NA | NA |
| Petroleum | 4 | 8 | NA | NA |
| Gas.....* | * | * | NA | NA |
| Other..... | 2 | 3 | NA | NA |
| Total | 362 | 401 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 277 | 184 | NA | NA |
| Petroleum | 1 | 1 | NA | NA |
| Gas..... | 20 | 21 | NA | NA |
| Other..... | 2 | 4 | NA | NA |
| Total | 300 | 211 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 65,946 | 71,836 | 72,158 | 1.0 |
| Petroleum | 671 | 977 | 791 | 1.8 |
| Gas..... | 5,328 | 7,086 | 7,058 | 3.2 |
| Other..... | 51 | 76 | 58 | 1.3 |
| Total | 71,997 | 79,976 | 80,065 | 1.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|---------|--|-----------------------|-----------------------|-----------------------|
| Michigan | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 25,671 | 28,901 | 32,305 | 2.6 | 30.6 | 30.0 | 31.7 |
| Commercial..... | 21,208 | 32,038 | 34,889 | 5.7 | 25.3 | 33.3 | 34.2 |
| Industrial | 35,657 | 34,499 | 33,862 | -6 | 42.5 | 35.8 | 33.2 |
| Other | 1,304 | 863 | 899 | -4.0 | 1.6 | .9 | .9 |
| Total | 83,840 | 96,302 | 101,955 | 2.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 2,375 | 2,565 | 2,667 | 1.3 | 34.3 | 35.8 | 37.5 |
| Commercial..... | 2,003 | 2,664 | 2,632 | 3.1 | 29.0 | 37.2 | 37.0 |
| Industrial | 2,400 | 1,834 | 1,723 | -3.6 | 34.7 | 25.6 | 24.2 |
| Other | 138 | 98 | 94 | -4.2 | 2.0 | 1.4 | 1.3 |
| Total | 6,916 | 7,162 | 7,115 | .3 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.25 | 8.88 | 8.26 | -1.3 | NA | NA | NA |
| Commercial..... | 9.44 | 8.32 | 7.54 | -2.5 | NA | NA | NA |
| Industrial | 6.73 | 5.32 | 5.09 | -3.1 | NA | NA | NA |
| Other | 10.61 | 11.36 | 10.43 | -2 | NA | NA | NA |
| Total | 8.25 | 7.44 | 6.98 | -1.8 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Michigan | | | | | | |
| Number of Entities | 8 | 43 | 0 | 9 | 3 | 63 |
| Number of Retail Customers..... | 3,951,942 | 446,690 | 0 | 237,373 | 1,200 | 4,637,205 |
| Retail Sales (thousand megawatthours)..... | 88,445 | 11,162 | 0 | 2,163 | 185 | 101,955 |
| Percentage of Retail Sales..... | 86.75 | 10.95 | .00 | 2.12 | .18 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 6,215 | 692 | 0 | 198 | 11 | 7,115 |
| Percentage of Revenue | 87.34 | 9.72 | .00 | 2.78 | .15 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.03 | 6.20 | .00 | 9.16 | 0 | 6.98 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Minnesota | | |
| North American Electric Reliability Council (NERC) Region(s) | | MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 11,076 | 29 |
| Utility..... | 10,110 | 24 |
| Nonutility..... | 965 | 37 |
| Net Generation (megawatthours) | 48,523,228 | 27 |
| Utility..... | 44,798,014 | 23 |
| Nonutility..... | 3,725,214 | 34 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 37,434 | 27 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 470 | 36 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 60,287,771 | 23 |
| Utility Retail Electricity Sales (megawatthours) | 60,287,771 | 23 |
| Direct Use (megawatthours)..... | 2,784,898 | 14 |
| Average Retail Price (cents/kWh)..... | 6.04 | 36 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-----------------------------|----------------------|--------------------------|---------------------|
| Minnesota | | | |
| 1. Sherburne | 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 | 1,023 |
| 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 | 457 |
| 7. Lakefield Junction | Petroleum, Gas, Coal | Great River Energy | 434 |
| 8. Riverside | Gas, Petroleum, Coal | Northern States Power Co | 382 |
| 9. Inver Hills..... | Petroleum, Gas | Northern States Power Co | 351 |
| 10. Pleasant Valley..... | Petroleum, Gas | Great River Energy | 299 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|---------|
| Minnesota | | | | | |
| A. Northern States Power Company..... | 29,675,319 | 8,031,584 | 13,039,382 | 8,355,791 | 248,562 |
| B. Minnesota Power, Inc. | 8,311,392 | 916,202 | 1,101,221 | 6,220,934 | 73,035 |
| C. Otter Tail Power Company | 1,883,667 | 482,537 | 602,817 | 764,310 | 34,003 |
| D. Connexus Energy..... | 1,592,593 | 946,979 | 546,614 | 76,017 | 22,983 |
| E. Dakota Electric Association..... | 1,537,635 | 774,967 | 288,774 | 454,762 | 19,132 |
| Total | 43,000,606 | 11,152,269 | 15,578,808 | 15,871,814 | 397,715 |
| Percentage of Utility Sales..... | 71 | 57 | 79 | 78 | 55 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Minnesota | | | | | | | |
| Coal..... | 5,771 | 5,779 | 5,729 | -0.1 | 60.9 | 58.8 | 51.7 |
| Petroleum..... | 868 | 1,013 | 975 | 1.3 | 9.2 | 10.3 | 8.8 |
| Natural Gas..... | 131 | 285 | 429 | 14.0 | 1.4 | 2.9 | 3.9 |
| Dual Fired..... | 331 | 271 | 1,020 | 13.3 | 3.5 | 2.8 | 9.2 |
| Nuclear..... | 1,547 | 1,572 | 1,646 | .7 | 16.3 | 16.0 | 14.9 |
| Hydroelectric..... | 143 | 144 | 132 | -9 | 1.5 | 1.5 | 1.2 |
| Other Renewables..... | 88 | 116 | 179 | 8.2 | .9 | 1.2 | 1.6 |
| Total Utility..... | 8,880 | 9,180 | 10,110 | 1.5 | 93.8 | 93.5 | 91.3 |
| Coal..... | 344 | 307 | 157 | -8.3 | 3.6 | 3.1 | 1.4 |
| Petroleum..... | 14 | 23 | 29 | 8.5 | .1 | .2 | .3 |
| Natural Gas..... | 31 | 74 | 144 | 18.6 | .3 | .8 | 1.3 |
| Dual Fired..... | 24 | 20 | 173 | 24.5 | .3 | .2 | 1.6 |
| Hydroelectric..... | 64 | 72 | 42 | -4.7 | .7 | .7 | .4 |
| Other Renewables..... | 114 | 146 | 410 | 15.3 | 1.2 | 1.5 | 3.7 |
| Other..... | 0 | 0 | 11 | .0 | .0 | .0 | .1 |
| Total Nonutility..... | 591 | 642 | 965 | 5.6 | 6.2 | 6.5 | 8.7 |
| Coal..... | 6,115 | 6,086 | 5,886 | -4 | 64.6 | 62.0 | 53.1 |
| Petroleum..... | 882 | 1,036 | 1,005 | 1.5 | 9.3 | 10.5 | 9.1 |
| Natural Gas..... | 162 | 359 | 573 | 15.0 | 1.7 | 3.7 | 5.2 |
| Dual Fired..... | 355 | 291 | 1,193 | 14.4 | 3.8 | 3.0 | 10.8 |
| Nuclear..... | 1,547 | 1,572 | 1,646 | .7 | 16.3 | 16.0 | 14.9 |
| Hydroelectric..... | 207 | 216 | 173 | -2.0 | 2.2 | 2.2 | 1.6 |
| Other Renewables..... | 202 | 261 | 588 | 12.6 | 2.1 | 2.7 | 5.3 |
| Other..... | 0 | 0 | 11 | .0 | .0 | .0 | .1 |
| Total Industry..... | 9,471 | 9,822 | 11,075 | 1.8 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Minnesota | | | | | | | |
| Coal..... | 24,443,013 | 27,329,077 | 31,037,544 | 2.7 | 60.7 | 61.7 | 64.0 |
| Petroleum..... | 638,979 | 640,427 | 599,557 | -7 | 1.6 | 1.4 | 1.2 |
| Natural Gas..... | 370,267 | 467,568 | 371,643 | .0 | .9 | 1.1 | .8 |
| Nuclear..... | 11,166,355 | 12,095,122 | 11,789,027 | .6 | 27.7 | 27.3 | 24.3 |
| Hydroelectric..... | 757,962 | 837,226 | 619,404 | -2.2 | 1.9 | 1.9 | 1.3 |
| Other Renewable..... | 407,300 | 422,086 | 380,839 | -7 | 1.0 | 1.0 | .8 |
| Total Utility..... | 37,783,876 | 41,791,506 | 44,798,014 | 1.9 | 93.9 | 94.3 | 92.3 |
| Coal..... | 1,258,254 | 1,093,527 | 781,619 | -5.2 | 3.1 | 2.5 | 1.6 |
| Petroleum..... | 9,679 | 11,317 | 25,496 | 11.4 | .0 | .0 | .1 |
| Natural Gas..... | 275,621 | 319,102 | 827,943 | 13.0 | .7 | .7 | 1.7 |
| Hydroelectric..... | 304,544 | 349,888 | 212,218 | -3.9 | .8 | .8 | .4 |
| Other Renewable..... | 626,911 | 763,099 | 1,877,939 | 13.0 | 1.6 | 1.7 | 3.9 |
| Total Nonutility..... | 2,475,009 | 2,536,933 | 3,725,214 | 4.6 | 6.1 | 5.7 | 7.7 |
| Coal..... | 25,701,267 | 28,422,604 | 31,819,163 | 2.4 | 63.8 | 64.1 | 65.6 |
| Petroleum..... | 648,658 | 651,744 | 625,053 | -4 | 1.6 | 1.5 | 1.3 |
| Natural Gas..... | 645,888 | 786,670 | 1,199,586 | 7.1 | 1.6 | 1.8 | 2.5 |
| Nuclear..... | 11,166,355 | 12,095,122 | 11,789,027 | .6 | 27.7 | 27.3 | 24.3 |
| Hydroelectric..... | 1,062,506 | 1,187,114 | 831,622 | -2.7 | 2.6 | 2.7 | 1.7 |
| Other Renewable..... | 1,034,211 | 1,185,185 | 2,258,778 | 9.1 | 2.6 | 2.7 | 4.7 |
| Total Industry..... | 40,258,885 | 44,328,439 | 48,523,228 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Minnesota | | | | |
| Coal (2001 cents per million Btu)..... | 135.3 | 111.7 | 101.8 | -3.1 |
| Average heat value (Btu per pound)..... | 8,838 | 8,914 | 8,909 | .1 |
| Average sulfur Content(percent)..... | .4 | .4 | .5 | .4 |
| Petroleum (2001 cents per million Btu)..... | 94.2 | 94.3 | 65.5 | -4.0 |
| Average heat value (Btu per gallon)..... | 651,290 | 634,731 | 628,102 | -4 |
| Average sulfur Content(percent)..... | 5.4 | 5.3 | 5.6 | .5 |
| Gas (2001 cents per million Btu)..... | 209.7 | 227.4 | 520.8 | 10.6 |
| Average heat value (Btu per cubic foot)..... | 1008.2 | 1003.0 | 1007.9 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|------------------|--------|--------|--------|--|
| Minnesota | | | | |
| Sulfur Dioxide | | | | |
| Coal | 99 | 109 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 3 | 2 | NA | NA |
| Total | 101 | 112 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 123 | 96 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 1 | 1 | NA | NA |
| Other..... | 2 | 3 | NA | NA |
| Total | 126 | 100 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 31,208 | 34,491 | 35,871 | 1.6 |
| Petroleum | 703 | 733 | 730 | .4 |
| Gas..... | 452 | 531 | 789 | 6.4 |
| Other..... | 57 | 51 | 44 | -2.8 |
| Total | 32,421 | 35,806 | 37,434 | 1.6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Minnesota | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 14,848 | 17,157 | 19,400 | 3.0 | 31.3 | 31.2 | 32.2 |
| Commercial..... | 8,291 | 10,115 | 19,799 | 10.2 | 17.5 | 18.4 | 32.8 |
| Industrial | 23,557 | 26,934 | 20,368 | -1.6 | 49.7 | 49.0 | 33.8 |
| Other | 716 | 735 | 721 | .1 | 1.5 | 1.3 | 1.2 |
| Total | 47,412 | 54,942 | 60,288 | 2.7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,187 | 1,281 | 1,476 | 2.4 | 39.8 | 40.1 | 40.5 |
| Commercial..... | 579 | 651 | 1,193 | 8.4 | 19.4 | 20.4 | 32.8 |
| Industrial | 1,164 | 1,203 | 920 | -2.6 | 39.0 | 37.7 | 25.3 |
| Other | 57 | 56 | 54 | -6 | 1.9 | 1.8 | 1.5 |
| Total | 2,987 | 3,191 | 3,643 | 2.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.00 | 7.47 | 7.61 | -.5 | NA | NA | NA |
| Commercial..... | 6.99 | 6.43 | 6.03 | -1.6 | NA | NA | NA |
| Industrial | 4.94 | 4.47 | 4.52 | -1.0 | NA | NA | NA |
| Other | 7.92 | 7.60 | 7.43 | -.7 | NA | NA | NA |
| Total | 6.30 | 5.81 | 6.04 | -.5 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Minnesota | | | | | | |
| Number of Entities | 4 | 131 | 0 | 43 | 0 | 178 |
| Number of Retail Customers..... | 1,322,714 | 388,842 | 0 | 619,451 | 0 | 2,331,007 |
| Retail Sales (thousand megawatthours)..... | 39,871 | 9,854 | 0 | 10,563 | 0 | 60,288 |
| Percentage of Retail Sales..... | 66.13 | 16.34 | .00 | 17.52 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 2,325 | 600 | 0 | 718 | 0 | 3,643 |
| Percentage of Revenue | 63.82 | 16.47 | .00 | 19.71 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.83 | 6.09 | .00 | 6.80 | 0 | 6.04 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Mississippi | | |
| North American Electric Reliability Council (NERC) Region(s) | | SERC/SPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 11,084 | 28 |
| Utility..... | 7,964 | 27 |
| Nonutility..... | 3,121 | 18 |
| Net Generation (megawatthours) | 53,446,452 | 25 |
| Utility..... | 47,550,273 | 22 |
| Nonutility..... | 5,896,179 | 27 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 33,937 | 30 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 723 | 30 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 44,286,865 | 28 |
| Utility Retail Electricity Sales (megawatthours) | 44,286,865 | 28 |
| Direct Use (megawatthours)..... | 2,228,887 | 18 |
| Average Retail Price (cents/kWh)..... | 6.26 | 29 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|------------------------------|----------------------|-------------------------------|---------------------|
| Mississippi | | | |
| 1. Victor J Daniel Jr | Petroleum, Gas, Coal | Mississippi Power Co | 1,961 |
| 2. Baxter Wilson | Gas, Petroleum | Entergy Mississippi Inc | 1,211 |
| 3. Grand Gulf | Nuclear | Entergy Operations Inc | 1,210 |
| 4. Jack Watson | Gas, Coal | Mississippi Power Co | 1,061 |
| 5. Batesville..... | Other | LSP Energy Ltd Partnership | 767 |
| 6. Gerald Andrus..... | Gas, Petroleum | Entergy Mississippi Inc | 741 |
| 7. Attala Generating Co..... | Other | Attala Generating Co LLC | 459 |
| 8. Hinds | Other | Duke Energy Hinds LLC | 450 |
| 9. Caledonia | Other | Caledonia Power I LLC | 441 |
| 10. R D Morrow..... | Petroleum, Coal | South Mississippi El Pwr Assn | 400 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|---------|
| Mississippi | | | | | |
| A. Entergy Mississippi, Inc | 12,535,473 | 4,833,935 | 4,292,792 | 3,030,131 | 378,615 |
| B. Mississippi Power Company | 9,320,253 | 2,162,623 | 2,840,840 | 4,275,781 | 41,009 |
| C. Tennessee Valley Authority | 3,172,036 | 0 | 0 | 3,172,036 | 0 |
| D. Southern Pine Elec Power Assn | 1,610,277 | 803,100 | 232,568 | 573,813 | 796 |
| E. Coast Electric Power Assn | 1,372,984 | 918,444 | 213,855 | 218,134 | 22,551 |
| Total | 28,011,023 | 8,718,102 | 7,580,055 | 11,269,895 | 442,971 |
| Percentage of Utility Sales..... | 63 | 52 | 67 | 74 | 55 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Mississippi | | | | | | | |
| Coal..... | 2,227 | 2,255 | 2,208 | -0.1 | 30.1 | 29.8 | 19.9 |
| Petroleum..... | 31 | 31 | 54 | 6.3 | .4 | .4 | .5 |
| Natural Gas..... | 519 | 686 | 1,582 | 13.2 | 7.0 | 9.1 | 14.3 |
| Dual Fired..... | 3,112 | 3,026 | 2,910 | -7 | 42.1 | 40.0 | 26.3 |
| Nuclear..... | 1,143 | 1,179 | 1,210 | .6 | 15.5 | 15.6 | 10.9 |
| Total Utility..... | 7,032 | 7,177 | 7,964 | 1.4 | 95.1 | 94.9 | 71.8 |
| Petroleum..... | W | W | 6 | W | W | W | .1 |
| Natural Gas..... | W | W | 2,860 | W | W | W | 25.8 |
| Other Renewables..... | 294 | 311 | 255 | -1.6 | 4.0 | 4.1 | 2.3 |
| Total Nonutility..... | 361 | 384 | 3,121 | 27.1 | 4.9 | 5.1 | 28.2 |
| Coal..... | 2,227 | 2,255 | 2,208 | -1 | 30.1 | 29.8 | 19.9 |
| Petroleum..... | W | W | 60 | W | W | W | .5 |
| Natural Gas..... | W | W | 4,442 | W | W | W | 40.1 |
| Dual Fired..... | 3,112 | 3,026 | 2,910 | -7 | 42.1 | 40.0 | 26.3 |
| Nuclear..... | 1,143 | 1,179 | 1,210 | .6 | 15.5 | 15.6 | 10.9 |
| Other Renewables..... | 294 | 311 | 255 | -1.6 | 4.0 | 4.1 | 2.3 |
| Total Industry..... | 7,393 | 7,561 | 11,084 | 4.6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Mississippi | | | | | | | |
| Coal..... | 7,796,112 | 12,010,196 | 19,196,065 | 10.5 | 33.7 | 38.4 | 35.9 |
| Petroleum..... | 371,568 | 1,173,503 | 5,120,602 | 33.8 | 1.6 | 3.8 | 9.6 |
| Natural Gas..... | 4,146,503 | 6,430,010 | 13,309,724 | 13.8 | 17.9 | 20.6 | 24.9 |
| Nuclear..... | 8,173,763 | 9,224,593 | 9,923,882 | 2.2 | 35.3 | 29.5 | 18.6 |
| Total Utility..... | 20,487,946 | 28,838,302 | 47,550,273 | 9.8 | 88.6 | 92.2 | 89.0 |
| Coal..... | W | W | 0 | W | W | W | .0 |
| Petroleum..... | W | W | 23,090 | W | W | W | .0 |
| Natural Gas..... | 588,679 | 745,195 | 4,440,825 | 25.2 | 2.5 | 2.4 | 8.3 |
| Other Renewable..... | 1,976,025 | 1,623,659 | 1,432,264 | -3.5 | 8.5 | 5.2 | 2.7 |
| Total Nonutility..... | 2,647,018 | 2,438,980 | 5,896,179 | 9.3 | 11.4 | 7.8 | 11.0 |
| Coal..... | W | W | 19,196,065 | W | W | W | 35.9 |
| Petroleum..... | W | W | 5,143,692 | W | W | W | 9.6 |
| Natural Gas..... | 4,735,182 | 7,175,205 | 17,750,549 | 15.8 | 20.5 | 22.9 | 33.2 |
| Nuclear..... | 8,173,763 | 9,224,593 | 9,923,882 | 2.2 | 35.3 | 29.5 | 18.6 |
| Other Renewable..... | 1,976,025 | 1,623,659 | 1,432,264 | -3.5 | 8.5 | 5.2 | 2.7 |
| Total Industry..... | 23,134,964 | 31,277,282 | 53,446,452 | 9.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Mississippi | | | | |
| Coal (2001 cents per million Btu) | 182.3 | 158.4 | 163.5 | -1.2 |
| Average heat value (Btu per pound) | 12,507 | 11,023 | 11,718 | -.7 |
| Average sulfur Content(percent) | 1.7 | .9 | .7 | -9.3 |
| Petroleum (2001 cents per million Btu) | 228.3 | 234.3 | 377.4 | 5.7 |
| Average heat value (Btu per gallon)..... | 152,595 | 154,383 | 154,846 | .2 |
| Average sulfur Content(percent) | 2.9 | 1.1 | 3.0 | .2 |
| Gas (2001 cents per million Btu)..... | 205.1 | 280.8 | 344.6 | 5.9 |
| Average heat value (Btu per cubic foot..... | 1028.8 | 1038.1 | 1027.4 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Mississippi | | | | |
| Sulfur Dioxide | | | | |
| Coal | 94 | 94 | NA | NA |
| Petroleum | 6 | 17 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 5 | 5 | NA | NA |
| Total | 105 | 115 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 28 | 29 | NA | NA |
| Petroleum | 1 | 5 | NA | NA |
| Gas..... | 8 | 16 | NA | NA |
| Other..... | 1 | 1 | NA | NA |
| Total | 38 | 51 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 8,253 | 12,680 | 19,928 | 10.3 |
| Petroleum | 385 | 994 | 4,634 | 31.8 |
| Gas..... | 3,668 | 5,516 | 9,376 | 11.0 |
| Total | 12,305 | 19,191 | 33,937 | 11.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Mississippi | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 12,422 | 14,965 | 16,856 | 3.4 | 37.4 | 37.8 | 38.1 |
| Commercial..... | 6,732 | 7,913 | 11,357 | 6.0 | 20.3 | 20.0 | 25.6 |
| Industrial..... | 13,491 | 16,043 | 15,268 | 1.4 | 40.6 | 40.5 | 34.5 |
| Other..... | 596 | 702 | 805 | 3.4 | 1.8 | 1.8 | 1.8 |
| Total..... | 33,241 | 39,622 | 44,287 | 3.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 994 | 1,104 | 1,243 | 2.5 | 43.4 | 44.2 | 44.8 |
| Commercial..... | 558 | 588 | 788 | 3.9 | 24.4 | 23.5 | 28.4 |
| Industrial..... | 679 | 741 | 672 | -1 | 29.7 | 29.7 | 24.2 |
| Other..... | 57 | 64 | 72 | 2.6 | 2.5 | 2.6 | 2.6 |
| Total..... | 2,288 | 2,497 | 2,775 | 2.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.00 | 7.38 | 7.37 | -9 | NA | NA | NA |
| Commercial..... | 8.29 | 7.42 | 6.94 | -2.0 | NA | NA | NA |
| Industrial..... | 5.03 | 4.62 | 4.40 | -1.5 | NA | NA | NA |
| Other..... | 9.64 | 9.09 | 8.95 | -8 | NA | NA | NA |
| Total..... | 6.88 | 6.30 | 6.26 | -1.0 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Mississippi | | | | | | |
| Number of Entities..... | 2 | 24 | 0 | 25 | 0 | 51 |
| Number of Retail Customers..... | 595,187 | 130,842 | 0 | 662,316 | 0 | 1,388,345 |
| Retail Sales (thousand megawatthours)..... | 21,856 | 7,266 | 0 | 15,165 | 0 | 44,287 |
| Percentage of Retail Sales..... | 49.35 | 16.41 | .00 | 34.24 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,426 | 340 | 0 | 1,008 | 0 | 2,775 |
| Percentage of Revenue..... | 51.40 | 12.26 | .00 | 36.34 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.53 | 4.68 | .00 | 6.65 | 0 | 6.26 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Missouri | | |
| North American Electric Reliability Council (NERC) Region(s) | | SPP/MAIN |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 18,928 | 18 |
| Utility..... | 17,726 | 13 |
| Nonutility..... | 1,202 | 35 |
| Net Generation (megawatthours) | 79,544,875 | 20 |
| Utility..... | 78,990,878 | 13 |
| Nonutility..... | 553,997 | 46 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 76,046 | 12 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,104 | 25 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 73,213,157 | 19 |
| Utility Retail Electricity Sales (megawatthours) | 73,213,157 | 19 |
| Direct Use (megawatthours)..... | 299,421 | 37 |
| Average Retail Price (cents/kWh)..... | 6.03 | 37 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Sioux | Other, Petroleum, Coal | Union Electric Co | 950 |
| 7. Hawthorn..... | Gas, Coal | Kansas City Power & Light Co | 949 |
| 8. Meramec..... | Petroleum, Gas, Coal | Union Electric Co | 931 |
| 9. Iatan..... | Petroleum, Coal | Kansas City Power & Light Co | 670 |
| 10. Audrain Generating St..... | Petroleum, Coal | NRG South Central Ops Inc | 640 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--------------------------------------|-------------|-------------|------------|------------|---------|
| Missouri | | | | | |
| A. Union Electric Company | 31,565,621 | 12,015,691 | 13,029,859 | 6,405,554 | 114,517 |
| B. Kansas City Power & Light Co..... | 8,183,011 | 2,321,133 | 4,064,799 | 1,737,605 | 59,474 |
| C. UtiliCorp United, Inc..... | 6,583,322 | 2,853,163 | 2,076,761 | 1,224,498 | 428,900 |
| D. Empire District Electric Co..... | 3,670,565 | 1,480,837 | 1,271,691 | 830,146 | 87,891 |
| E. City of Springfield | 2,761,850 | 854,490 | 1,397,498 | 472,277 | 37,585 |
| Total | 52,764,369 | 19,525,314 | 21,840,608 | 10,670,080 | 728,367 |
| Percentage of Utility Sales..... | 72 | 65 | 84 | 67 | 61 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Missouri | | | | | | | |
| Coal..... | 10,724 | 10,557 | 11,032 | 0.3 | 69.2 | 65.6 | 58.3 |
| Petroleum..... | 1,012 | 1,362 | 1,091 | .8 | 6.5 | 8.5 | 5.8 |
| Natural Gas..... | 307 | 486 | 936 | 13.2 | 2.0 | 3.0 | 4.9 |
| Dual Fired..... | 1,105 | 1,326 | 2,325 | 8.6 | 7.1 | 8.2 | 12.3 |
| Nuclear..... | 1,125 | 1,137 | 1,143 | .2 | 7.3 | 7.1 | 6.0 |
| Hydroelectric..... | 1,112 | 1,110 | 1,200 | .8 | 7.2 | 6.9 | 6.3 |
| Total Utility..... | 15,385 | 15,978 | 17,726 | 1.6 | 99.3 | 99.3 | 93.6 |
| Coal..... | 102 | 96 | 95 | -.7 | .7 | .6 | .5 |
| Petroleum..... | W | W | 9 | W | W | W | .0 |
| Natural Gas..... | W | W | 1,098 | W | W | W | 5.8 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 111 | 109 | 1,202 | 30.3 | .7 | .7 | 6.4 |
| Coal..... | 10,826 | 10,653 | 11,127 | .3 | 69.9 | 66.2 | 58.8 |
| Petroleum..... | W | W | 1,099 | W | W | W | 5.8 |
| Natural Gas..... | W | W | 2,034 | W | W | W | 10.7 |
| Dual Fired..... | W | W | 2,325 | W | W | W | 12.3 |
| Nuclear..... | 1,125 | 1,137 | 1,143 | .2 | 7.3 | 7.1 | 6.0 |
| Hydroelectric..... | 1,112 | 1,110 | 1,200 | .8 | 7.2 | 6.9 | 6.3 |
| Total Industry..... | 15,495 | 16,086 | 18,928 | 2.2 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Missouri | | | | | | | |
| Coal..... | 46,829,678 | 57,176,084 | 65,445,161 | 3.8 | 82.2 | 83.9 | 82.3 |
| Petroleum..... | 80,522 | 95,980 | 637,504 | 25.8 | .1 | .1 | .8 |
| Natural Gas..... | 183,411 | 394,796 | 3,634,106 | 39.4 | .3 | .6 | 4.6 |
| Nuclear..... | 8,083,975 | 8,890,377 | 8,384,240 | .4 | 14.2 | 13.1 | 10.5 |
| Hydroelectric..... | 1,449,521 | 1,238,713 | 838,275 | -5.9 | 2.5 | 1.8 | 1.1 |
| Other Renewable..... | 0 | 31,291 | 51,592 | .0 | .0 | .0 | .1 |
| Total Utility..... | 56,627,107 | 67,827,241 | 78,990,878 | 3.8 | 99.4 | 99.6 | 99.3 |
| Coal..... | W | W | 303,522 | W | W | W | .4 |
| Petroleum..... | W | W | 182 | W | W | W | .0 |
| Natural Gas..... | W | W | 239,458 | W | W | W | .3 |
| Other Renewable..... | W | W | 10,835 | W | W | W | .0 |
| Total Nonutility..... | 324,566 | 295,286 | 553,997 | 6.1 | .6 | .4 | .7 |
| Coal..... | W | W | 65,748,683 | W | W | W | 82.7 |
| Petroleum..... | W | W | 637,686 | W | W | W | .8 |
| Natural Gas..... | W | W | 3,873,564 | W | W | W | 4.9 |
| Nuclear..... | 8,083,975 | 8,890,377 | 8,384,240 | .4 | 14.2 | 13.1 | 10.5 |
| Hydroelectric..... | 1,449,521 | 1,238,713 | 838,275 | -5.9 | 2.5 | 1.8 | 1.1 |
| Other Renewable..... | W | W | 62,427 | W | W | W | .1 |
| Total Industry..... | 56,951,673 | 68,122,527 | 79,544,875 | 3.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Missouri | | | | |
| Coal (2001 cents per million Btu) | 152.5 | 100.1 | 95.8 | -5.0 |
| Average heat value (Btu per pound) | 10,321 | 9,063 | 8,918 | -1.6 |
| Average sulfur Content(percent) | 1.8 | .6 | .4 | -16.3 |
| Petroleum (2001 cents per million Btu) | 240.1 | 191.9 | 133.9 | -6.3 |
| Average heat value (Btu per gallon)..... | 233,559 | 442,880 | 614,188 | 11.3 |
| Average sulfur Content(percent) | 3.1 | 4.2 | 3.7 | 2.1 |
| Gas (2001 cents per million Btu)..... | 213.7 | 267.5 | 467.0 | 9.1 |
| Average heat value (Btu per cubic foot.....) | 1007.5 | 1010.8 | 1004.7 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Missouri | | | | |
| Sulfur Dioxide | | | | |
| Coal | 670 | 357 | NA | NA |
| Petroleum | 4 | 5 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 0 | * | NA | NA |
| Total | 674 | 361 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 241 | 189 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 0 | * | NA | NA |
| Total | 242 | 190 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 50,667 | 63,653 | 73,353 | 4.2 |
| Petroleum | 99 | 131 | 732 | 24.9 |
| Gas..... | 164 | 328 | 1,962 | 31.7 |
| Total | 50,930 | 64,112 | 76,046 | 4.5 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Missouri | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 21,294 | 26,448 | 30,168 | 3.9 | 39.1 | 40.8 | 41.2 |
| Commercial..... | 18,792 | 22,522 | 26,029 | 3.7 | 34.5 | 34.7 | 35.5 |
| Industrial..... | 13,440 | 14,915 | 15,815 | 1.8 | 24.7 | 23.0 | 21.6 |
| Other..... | 885 | 958 | 1,201 | 3.5 | 1.6 | 1.5 | 1.6 |
| Total..... | 54,411 | 64,843 | 73,213 | 3.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,806 | 1,962 | 2,113 | 1.8 | 45.4 | 47.3 | 47.9 |
| Commercial..... | 1,369 | 1,424 | 1,533 | 1.3 | 34.4 | 34.3 | 34.7 |
| Industrial..... | 733 | 694 | 695 | -6 | 18.4 | 16.7 | 15.7 |
| Other..... | 71 | 71 | 73 | .3 | 1.8 | 1.7 | 1.7 |
| Total..... | 3,980 | 4,151 | 4,414 | 1.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.48 | 7.42 | 7.00 | -2.1 | NA | NA | NA |
| Commercial..... | 7.29 | 6.32 | 5.89 | -2.3 | NA | NA | NA |
| Industrial..... | 5.45 | 4.65 | 4.39 | -2.4 | NA | NA | NA |
| Other..... | 8.06 | 7.36 | 6.08 | -3.1 | NA | NA | NA |
| Total..... | 7.32 | 6.40 | 6.03 | -2.1 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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 | 2,201,947 | 0 | 609,611 | 0 | 2,811,558 |
| Retail Sales (thousand megawatthours)..... | 0 | 60,426 | 0 | 12,787 | 0 | 73,213 |
| Percentage of Retail Sales..... | .00 | 82.53 | .00 | 17.47 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 0 | 3,668 | 0 | 746 | 0 | 4,414 |
| Percentage of Revenue..... | .00 | 83.10 | .00 | 16.90 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | .00 | 6.07 | .00 | 5.84 | 0 | 6.03 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Montana | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC/MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 5,140 | 40 |
| Utility..... | 2,232 | 39 |
| Nonutility..... | 2,908 | 19 |
| Net Generation (megawatthours) | 24,232,483 | 41 |
| Utility..... | 4,415,943 | 43 |
| Nonutility..... | 19,816,540 | 13 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 19,823 | 38 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 136 | 46 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 11,165,218 | 42 |
| Utility Retail Electricity Sales (megawatthours) | 9,599,172 | 45 |
| ESP Retail Electricity Sales (megawatthours)..... | 1,566,046 | 9 |
| Direct Use (megawatthours)..... | -506,709 | 47 |
| Average Retail Price (cents/kWh)..... | 6.54 | 26 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------|------------------|------------------------------|---------------------|
| Montana | | | |
| 1. Colstrip..... | Petroleum, Other | PP&L 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 | PP&L Montana LLC | 201 |
| 8. J E Corette SES | Other | PP&L Montana LLC | 154 |
| 9. Thompson Falls | Hydro | PP&L Montana LLC | 88 |
| 10. Canyon Ferry..... | Hydro | U S Bureau of Reclamation | 58 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|-------------------------------------|-------------|-------------|------------|------------|--------|
| Montana | | | | | |
| A. Montana Power Company..... | 5,443,492 | 1,973,441 | 2,244,929 | 1,165,398 | 59,724 |
| B. Flathead Electric Coop, Inc..... | 1,130,851 | 452,983 | 292,809 | 366,077 | 18,982 |
| C. PPL EnergyPlus LLC | 782,951 | 0 | 0 | 782,951 | 0 |
| D. MDU Resources Group, Inc..... | 530,280 | 142,073 | 192,340 | 181,420 | 14,447 |
| E. Enron Power Marketing Inc | 366,128 | 0 | 0 | 366,128 | 0 |
| Total | 8,253,702 | 2,568,497 | 2,730,078 | 2,861,974 | 93,153 |
| Percentage of Utility Sales..... | 74 | 66 | 75 | 86 | 29 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Montana | | | | | | | |
| Coal..... | 2,260 | 2,260 | 52 | -34.2 | 45.8 | 44.6 | 1.0 |
| Petroleum..... | 0 | 5 | 0 | .0 | .0 | .1 | .0 |
| Natural Gas..... | 70 | 70 | 0 | -100.0 | 1.4 | 1.4 | .0 |
| Dual Fired..... | 50 | 50 | 58 | 1.6 | 1.0 | 1.0 | 1.1 |
| Hydroelectric..... | 2,478 | 2,546 | 2,122 | -1.7 | 50.3 | 50.3 | 41.3 |
| Other Renewables..... | 13 | 13 | 0 | -100.0 | .3 | .2 | .0 |
| Total Utility..... | 4,871 | 4,943 | 2,232 | -8.3 | 98.8 | 97.6 | 43.4 |
| Coal..... | W | W | 2,283 | W | W | W | 44.4 |
| Petroleum..... | W | W | 55 | W | W | W | 1.1 |
| Hydroelectric..... | W | W | 558 | W | W | W | 10.9 |
| Other Renewables..... | W | W | 11 | W | W | W | .2 |
| Total Nonutility..... | 60 | 121 | 2,907 | 53.8 | 1.2 | 2.4 | 56.6 |
| Coal..... | W | W | 2,335 | W | W | W | 45.4 |
| Petroleum..... | W | W | 55 | W | W | W | 1.1 |
| Natural Gas..... | 70 | 70 | 0 | -100.0 | 1.4 | 1.4 | .0 |
| Dual Fired..... | 50 | 50 | 58 | 1.6 | 1.0 | 1.0 | 1.1 |
| Hydroelectric..... | W | W | 2,680 | W | W | W | 52.2 |
| Other Renewables..... | W | W | 11 | W | W | W | .2 |
| Total Industry..... | 4,931 | 5,064 | 5,139 | .5 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Montana | | | | | | | |
| Coal..... | 17,126,218 | 12,242,093 | 311,207 | -35.9 | 66.1 | 45.6 | 1.3 |
| Petroleum..... | 15,607 | 18,256 | 854 | -27.6 | .1 | .1 | .0 |
| Natural Gas..... | 23,338 | 38,217 | 9,979 | -9.0 | .1 | .1 | .0 |
| Hydroelectric..... | 8,223,420 | 13,740,575 | 4,093,903 | -7.5 | 31.8 | 51.2 | 16.9 |
| Other Renewable..... | 79,120 | 0 | 0 | -100.0 | .3 | .0 | .0 |
| Total Utility..... | 25,467,703 | 26,039,141 | 4,415,943 | -17.7 | 98.3 | 97.0 | 18.2 |
| Coal..... | W | W | 16,724,676 | W | W | W | 69.0 |
| Petroleum..... | W | W | 496,760 | W | W | W | 2.0 |
| Natural Gas..... | W | W | 10,110 | W | W | W | .0 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 2,519,569 | W | W | W | 10.4 |
| Other Renewable..... | W | W | 65,425 | W | W | W | .3 |
| Total Nonutility..... | 431,942 | 798,284 | 19,816,540 | 53.0 | 1.7 | 3.0 | 81.8 |
| Coal..... | W | W | 17,035,883 | W | W | W | 70.3 |
| Petroleum..... | W | W | 497,614 | W | W | W | 2.1 |
| Natural Gas..... | W | W | 20,089 | W | W | W | .1 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 6,613,472 | W | W | W | 27.3 |
| Other Renewable..... | W | W | 65,425 | W | W | W | .3 |
| Total Industry..... | 25,899,645 | 26,837,425 | 24,232,483 | -7 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|--------|--|
| Montana | | | | |
| Coal (2001 cents per million Btu) | 80.8 | 73.9 | 94.9 | 1.8 |
| Average heat value (Btu per pound) | 8,576 | 8,439 | 6,539 | -3.0 |
| Average sulfur Content(percent) | .7 | .7 | .5 | -2.3 |
| Petroleum (2001 cents per million Btu) | 581.1 | 592.2 | .0 | -100.0 |
| Average heat value (Btu per gallon)..... | 141,000 | 141,000 | 0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 390.3 | 282.2 | 666.4 | 6.1 |
| Average heat value (Btu per cubic foot)..... | 1206.0 | 1075.3 | 1132.1 | -7 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Montana | | | | |
| Sulfur Dioxide | | | | |
| Coal | 22 | 17 | NA | NA |
| Petroleum | 0 | * | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 22 | 17 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 64 | 27 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 64 | 28 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 20,147 | 14,526 | 19,140 | -0.6 |
| Petroleum | 18 | 410 | 666 | 49.6 |
| Gas..... | 23 | 59 | 18 | -3.1 |
| Total | 20,188 | 14,995 | 19,823 | -2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Montana | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 3,286 | 3,911 | 3,885 | 1.9 | 25.1 | 28.3 | 34.8 |
| Commercial..... | 2,859 | 3,299 | 3,645 | 2.7 | 21.8 | 23.9 | 32.6 |
| Industrial..... | 6,414 | 6,306 | 3,310 | -7.1 | 49.0 | 45.6 | 29.6 |
| Other..... | 536 | 305 | 325 | -5.4 | 4.1 | 2.2 | 2.9 |
| Total..... | 13,096 | 13,820 | 11,165 | -1.8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 219 | 255 | 267 | 2.2 | 34.9 | 37.3 | 36.6 |
| Commercial..... | 169 | 191 | 223 | 3.1 | 26.9 | 27.9 | 30.5 |
| Industrial..... | 212 | 218 | 216 | .3 | 33.8 | 31.8 | 29.6 |
| Other..... | 27 | 20 | 24 | -1.4 | 4.4 | 3.0 | 3.3 |
| Total..... | 626 | 684 | 730 | 1.7 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 6.66 | 6.52 | 6.88 | .4 | NA | NA | NA |
| Commercial..... | 5.89 | 5.78 | 6.11 | .4 | NA | NA | NA |
| Industrial..... | 3.30 | 3.45 | 6.54 | 7.9 | NA | NA | NA |
| Other..... | 5.12 | 6.72 | 7.47 | 4.3 | NA | NA | NA |
| Total..... | 4.78 | 4.95 | 6.54 | 3.5 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| Montana | | | | | | |
| Number of Entities..... | 4 | 7 | 2 | 26 | 4 | 43 |
| Number of Retail Customers..... | 330,507 | 24,914 | 18,107 | 134,591 | 1,174 | 509,293 |
| Retail Sales (thousand megawatthours)..... | 6,121 | 456 | 456 | 2,567 | 1,566 | 11,165 |
| Percentage of Retail Sales..... | 54.82 | 4.08 | 4.08 | 22.99 | 14.03 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 384 | 25 | 28 | 171 | 122 | 730 |
| Percentage of Revenue..... | 52.54 | 3.46 | 3.86 | 23.45 | 16.68 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.27 | 5.54 | 6.20 | 6.67 | 0 | 6.54 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Nebraska | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC/MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 6,029 | 37 |
| Utility..... | 6,010 | 30 |
| Nonutility..... | 18 | 50 |
| Net Generation (megawatthours) | 30,485,214 | 39 |
| Utility..... | 30,411,669 | 32 |
| Nonutility..... | 73,545 | 50 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 23,291 | 36 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 303 | 41 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 24,722,640 | 36 |
| Utility Retail Electricity Sales (megawatthours) | 24,722,640 | 36 |
| Direct Use (megawatthours)..... | 63,857 | 41 |
| Average Retail Price (cents/kWh)..... | 5.39 | 44 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 632 |
| 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 | 247 |
| 8. Sheldon..... | Other, Gas, Coal | Nebraska Public Power District | 225 |
| 9. Lon Wright..... | Petroleum, Gas, Coal | Fremont City of | 120 |
| 10. Jones Street | Petroleum | Omaha Public Power District | 118 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| Nebraska | | | | | |
| A. Omaha Public Power District..... | 8,725,085 | 3,044,725 | 3,283,712 | 2,313,874 | 82,774 |
| B. Nebraska Public Power District | 2,875,249 | 770,493 | 833,124 | 1,092,932 | 178,700 |
| C. Lincoln Electric System..... | 2,822,787 | 986,994 | 1,023,473 | 543,579 | 268,741 |
| D. Loup River Public Power Dist..... | 969,601 | 216,027 | 135,447 | 573,587 | 44,540 |
| E. Southern Public Power District | 659,104 | 222,229 | 28,976 | 281,498 | 126,401 |
| Total | 16,051,826 | 5,240,468 | 5,304,732 | 4,805,470 | 701,156 |
| Percentage of Utility Sales..... | 65 | 61 | 73 | 66 | 46 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Nebraska | | | | | | | |
| Coal..... | 3,066 | 3,111 | 3,181 | 0.4 | 56.1 | 55.2 | 52.8 |
| Petroleum..... | 250 | 256 | 290 | 1.6 | 4.6 | 4.5 | 4.8 |
| Natural Gas..... | 13 | 5 | 2 | -19.7 | .2 | .1 | .0 |
| Dual Fired..... | 702 | 843 | 1,137 | 5.5 | 12.8 | 14.9 | 18.9 |
| Nuclear..... | 1,254 | 1,250 | 1,234 | -.2 | 23.0 | 22.2 | 20.5 |
| Hydroelectric..... | 168 | 167 | 162 | -.4 | 3.1 | 3.0 | 2.7 |
| Other Renewables..... | 0 | 0 | 4 | .0 | .0 | .0 | .1 |
| Total Utility..... | 5,453 | 5,632 | 6,010 | 1.1 | 99.8 | 99.8 | 99.7 |
| Coal..... | W | W | 8 | W | W | W | .1 |
| Petroleum..... | W | W | 1 | W | W | W | .0 |
| Natural Gas..... | W | W | 1 | W | W | W | .0 |
| Dual Fired..... | W | W | 4 | W | W | W | .1 |
| Other Renewables..... | 0 | 0 | 5 | .0 | .0 | .0 | .1 |
| Total Nonutility..... | 8 | 9 | 18 | 9.2 | .2 | .2 | .3 |
| Coal..... | W | W | 3,189 | W | W | W | 52.9 |
| Petroleum..... | W | W | 291 | W | W | W | 4.8 |
| Natural Gas..... | W | W | 3 | W | W | W | .1 |
| Dual Fired..... | W | W | 1,141 | W | W | W | 18.9 |
| Nuclear..... | 1,254 | 1,250 | 1,234 | -.2 | 23.0 | 22.2 | 20.5 |
| Hydroelectric..... | 168 | 167 | 162 | -.4 | 3.1 | 3.0 | 2.7 |
| Other Renewables..... | 0 | 0 | 9 | .0 | .0 | .0 | .1 |
| Total Industry..... | 5,461 | 5,641 | 6,028 | 1.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Nebraska | | | | | | | |
| Coal..... | 12,402,148 | 16,040,775 | 20,193,542 | 5.6 | 55.3 | 58.6 | 66.2 |
| Petroleum..... | 9,482 | 19,973 | 25,154 | 11.4 | .0 | .1 | .1 |
| Natural Gas..... | 145,268 | 191,682 | 340,050 | 9.9 | .6 | .7 | 1.1 |
| Nuclear..... | 8,748,468 | 9,456,814 | 8,726,113 | .0 | 39.0 | 34.6 | 28.6 |
| Hydroelectric..... | 1,075,446 | 1,601,919 | 1,124,122 | .5 | 4.8 | 5.9 | 3.7 |
| Other Renewable..... | 6,435 | 11,534 | 2,688 | -9.2 | .0 | .0 | .0 |
| Total Utility..... | 22,387,247 | 27,322,697 | 30,411,669 | 3.5 | 99.8 | 99.9 | 99.8 |
| Coal..... | W | W | 45,164 | W | W | W | .1 |
| Petroleum..... | W | W | 3,036 | W | W | W | .0 |
| Natural Gas..... | W | W | 8,682 | W | W | W | .0 |
| Other Renewable..... | W | W | 16,663 | W | W | W | .1 |
| Total Nonutility..... | 38,251 | 28,412 | 73,545 | 7.5 | .2 | .1 | .2 |
| Coal..... | W | W | 20,238,706 | W | W | W | 66.4 |
| Petroleum..... | W | W | 28,190 | W | W | W | .1 |
| Natural Gas..... | W | W | 348,732 | W | W | W | 1.1 |
| Nuclear..... | 8,748,468 | 9,456,814 | 8,726,113 | .0 | 39.0 | 34.6 | 28.6 |
| Hydroelectric..... | 1,075,446 | 1,601,919 | 1,124,122 | .5 | 4.8 | 5.9 | 3.7 |
| Other Renewable..... | W | W | 19,351 | W | W | W | .1 |
| Total Industry..... | 22,425,498 | 27,351,109 | 30,485,214 | 3.5 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Nebraska | | | | |
| Coal (2001 cents per million Btu) | 85.2 | 75.4 | 56.6 | -4.4 |
| Average heat value (Btu per pound) | 8,553 | 8,599 | 8,586 | * |
| Average sulfur Content(percent) | .4 | .3 | .3 | -2.0 |
| Petroleum (2001 cents per million Btu) | 530.7 | 536.1 | 655.6 | 2.4 |
| Average heat value (Btu per gallon)..... | 137,586 | 137,622 | 138,068 | * |
| Gas (2001 cents per million Btu)..... | 271.9 | 216.0 | 427.6 | 5.1 |
| Average heat value (Btu per cubic foot.....) | 958.6 | 1004.0 | 1003.0 | .5 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Nebraska | | | | |
| Sulfur Dioxide | | | | |
| Coal | 52 | 66 | NA | NA |
| Petroleum | * | * | NA | NA |
| Total | 52 | 66 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 65 | 49 | NA | NA |
| Petroleum | * | 0 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 0 | 0 | NA | NA |
| Total | 65 | 49 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 14,329 | 18,427 | 23,001 | 5.4 |
| Petroleum | 11 | 22 | 31 | 11.6 |
| Gas..... | 108 | 138 | 259 | 10.2 |
| Total | 14,449 | 18,586 | 23,291 | 5.4 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Nebraska | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 6,561 | 7,741 | 8,638 | 3.1 | 36.9 | 36.0 | 34.9 |
| Commercial..... | 5,266 | 6,272 | 7,232 | 3.6 | 29.6 | 29.2 | 29.3 |
| Industrial..... | 4,752 | 6,193 | 7,328 | 4.9 | 26.7 | 28.8 | 29.6 |
| Other..... | 1,204 | 1,291 | 1,525 | 2.7 | 6.8 | 6.0 | 6.2 |
| Total..... | 17,784 | 21,497 | 24,723 | 3.7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 469 | 510 | 562 | 2.0 | 41.8 | 42.6 | 42.1 |
| Commercial..... | 339 | 361 | 396 | 1.8 | 30.2 | 30.1 | 29.7 |
| Industrial..... | 220 | 239 | 276 | 2.5 | 19.6 | 19.9 | 20.7 |
| Other..... | 93 | 88 | 99 | .7 | 8.3 | 7.3 | 7.4 |
| Total..... | 1,122 | 1,198 | 1,333 | 1.9 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.15 | 6.59 | 6.50 | -1.0 | NA | NA | NA |
| Commercial..... | 6.44 | 5.76 | 5.48 | -1.8 | NA | NA | NA |
| Industrial..... | 4.64 | 3.85 | 3.76 | -2.3 | NA | NA | NA |
| Other..... | 7.72 | 6.80 | 6.51 | -1.9 | NA | NA | NA |
| Total..... | 6.31 | 5.57 | 5.39 | -1.7 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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 | 892,917 | 0 | 16,429 | 0 | 909,346 |
| Retail Sales (thousand megawatthours)..... | 0 | 24,327 | 0 | 396 | 0 | 24,723 |
| Percentage of Retail Sales..... | .00 | 98.40 | .00 | 1.60 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 0 | 1,304 | 0 | 29 | 0 | 1,333 |
| Percentage of Revenue..... | .00 | 97.84 | .00 | 2.16 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars)..... | .00 | 5.36 | .00 | 7.28 | 0 | 5.39 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Nevada | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 6,882 | 35 |
| Utility..... | 5,388 | 31 |
| Nonutility..... | 1,495 | 29 |
| Net Generation (megawatthours) | 33,875,970 | 36 |
| Utility..... | 27,896,065 | 35 |
| Nonutility..... | 5,979,905 | 26 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 26,372 | 34 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 240 | 43 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 28,167,293 | 34 |
| Utility Retail Electricity Sales (megawatthours) | 28,167,293 | 34 |
| Direct Use (megawatthours)..... | 163,269 | 40 |
| Average Retail Price (cents/kWh)..... | 7.86 | 13 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. El Dorado Energy | Other | El Dorado Energy LLC | 500 |
| 7. Tracy | Petroleum, Gas | Sierra Pacific Power Co | 402 |
| 8. Tri-Center - Naniwa E..... | Other | Naniwa Energy LLC | 300 |
| 9. Fort Churchill..... | Petroleum, Gas | Sierra Pacific Power Co | 226 |
| 10. Nevada Sun Peak | Other | Nevada Sun-Peak Ltd Partners | 222 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|---------|
| Nevada | | | | | |
| A. Nevada Power Company | 17,201,375 | 7,208,540 | 3,513,458 | 6,076,821 | 402,556 |
| B. Sierra Pacific Power Company | 8,227,445 | 1,816,797 | 2,651,834 | 3,747,289 | 11,525 |
| C. Colorado River Commission | 791,380 | 0 | 28,130 | 763,250 | 0 |
| D. Wells Rural Electric Company | 632,366 | 43,678 | 49,429 | 529,628 | 9,631 |
| E. Overton Power District No 5..... | 342,403 | 114,573 | 189,661 | 0 | 38,169 |
| Total | 27,194,969 | 9,183,588 | 6,432,512 | 11,116,988 | 461,881 |
| Percentage of Utility Sales..... | 97 | 96 | 96 | 99 | 74 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Nevada | | | | | | | |
| Coal..... | 2,692 | 2,807 | 2,747 | 0.2 | 48.1 | 43.9 | 39.9 |
| Petroleum..... | 48 | 45 | 44 | -9 | .9 | .7 | .6 |
| Natural Gas..... | 113 | 502 | 288 | 11.0 | 2.0 | 7.9 | 4.2 |
| Dual Fired..... | 1,235 | 1,243 | 1,261 | .2 | 22.1 | 19.4 | 18.3 |
| Hydroelectric..... | 1,031 | 1,046 | 1,048 | .2 | 18.4 | 16.4 | 15.2 |
| Total Utility..... | 5,119 | 5,643 | 5,388 | .6 | 91.4 | 88.3 | 78.3 |
| Natural Gas..... | 82 | 211 | 1,121 | 33.7 | 1.5 | 3.3 | 16.3 |
| Dual Fired..... | W | W | 222 | W | W | W | 3.2 |
| Hydroelectric..... | W | W | 4 | W | W | W | .1 |
| Other Renewables..... | W | W | 148 | W | W | W | 2.1 |
| Total Nonutility..... | 481 | 749 | 1,495 | 13.4 | 8.6 | 11.7 | 21.7 |
| Coal..... | 2,692 | 2,807 | 2,747 | .2 | 48.1 | 43.9 | 39.9 |
| Petroleum..... | 48 | 45 | 44 | -9 | .9 | .7 | .6 |
| Natural Gas..... | 195 | 713 | 1,409 | 24.6 | 3.5 | 11.2 | 20.5 |
| Dual Fired..... | W | W | 1,483 | W | W | W | 21.5 |
| Hydroelectric..... | W | W | 1,052 | W | W | W | 15.3 |
| Other Renewables..... | W | W | 148 | W | W | W | 2.1 |
| Total Industry..... | 5,600 | 6,392 | 6,883 | 2.3 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Nevada | | | | | | | |
| Coal..... | 16,443,169 | 14,656,868 | 17,736,970 | 0.8 | 70.4 | 57.3 | 52.4 |
| Petroleum..... | 327,585 | 93,811 | 911,611 | 12.0 | 1.4 | .4 | 2.7 |
| Natural Gas..... | 2,209,762 | 4,468,076 | 6,742,903 | 13.2 | 9.5 | 17.5 | 19.9 |
| Hydroelectric..... | 1,982,458 | 2,143,302 | 2,504,581 | 2.6 | 8.5 | 8.4 | 7.4 |
| Total Utility..... | 20,962,974 | 21,362,057 | 27,896,065 | 3.2 | 89.8 | 83.5 | 82.3 |
| Petroleum..... | W | W | 17 | W | W | W | .0 |
| Natural Gas..... | 1,182,435 | 2,615,181 | 4,770,873 | 16.8 | 5.1 | 10.2 | 14.1 |
| Hydroelectric..... | W | W | 9,141 | W | W | W | .0 |
| Other Renewable..... | 1,177,972 | 1,554,683 | 1,199,875 | .2 | 5.0 | 6.1 | 3.5 |
| Other..... | 20,929 | 25,154 | 0 | -100.0 | .1 | .1 | .0 |
| Total Nonutility..... | 2,384,569 | 4,218,351 | 5,979,905 | 10.8 | 10.2 | 16.5 | 17.7 |
| Coal..... | 16,443,169 | 14,656,868 | 17,736,970 | .8 | 70.4 | 57.3 | 52.4 |
| Petroleum..... | W | W | 911,628 | W | W | W | 2.7 |
| Natural Gas..... | 3,392,197 | 7,083,257 | 11,513,776 | 14.5 | 14.5 | 27.7 | 34.0 |
| Hydroelectric..... | W | W | 2,513,722 | W | W | W | 7.4 |
| Other Renewable..... | 1,177,972 | 1,554,683 | 1,199,875 | .2 | 5.0 | 6.1 | 3.5 |
| Other..... | 20,929 | 25,154 | 0 | -100.0 | .1 | .1 | .0 |
| Total Industry..... | 23,347,543 | 25,580,408 | 33,875,970 | 4.2 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Nevada | | | | |
| Coal (2001 cents per million Btu) | 166.9 | 143.2 | 126.2 | -3.1 |
| Average heat value (Btu per pound) | 11,051 | 11,140 | 11,232 | .2 |
| Average sulfur Content(percent) | .5 | .5 | .5 | .3 |
| Petroleum (2001 cents per million Btu) | 378.2 | 578.1 | 585.1 | 5.0 |
| Average heat value (Btu per gallon)..... | 147,779 | 136,899 | 139,110 | -7 |
| Average sulfur Content(percent) | .7 | .0 | .0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 213.1 | 215.9 | 802.5 | 15.9 |
| Average heat value (Btu per cubic foot..... | 1025.4 | 1029.3 | 1024.3 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Nevada | | | | |
| Sulfur Dioxide | | | | |
| Coal | 57 | 53 | NA | NA |
| Petroleum | 1 | * | NA | NA |
| Gas..... | 0 | * | NA | NA |
| Total | 58 | 53 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 63 | 40 | NA | NA |
| Petroleum | 1 | * | NA | NA |
| Gas..... | 4 | 7 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 68 | 48 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 17,978 | 17,011 | 18,931 | 0.6 |
| Petroleum | 303 | 95 | 1,142 | 15.9 |
| Gas..... | 2,006 | 4,111 | 6,299 | 13.6 |
| Total | 20,287 | 21,217 | 26,372 | 3.0 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Nevada | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 6,064 | 7,526 | 9,607 | 5.2 | 34.3 | 33.3 | 34.1 |
| Commercial..... | 4,175 | 5,150 | 6,693 | 5.4 | 23.6 | 22.8 | 23.8 |
| Industrial..... | 6,723 | 9,075 | 11,239 | 5.9 | 38.0 | 40.2 | 39.9 |
| Other..... | 734 | 823 | 628 | -1.7 | 4.1 | 3.6 | 2.2 |
| Total..... | 17,696 | 22,574 | 28,167 | 5.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 428 | 544 | 872 | 8.2 | 37.3 | 38.7 | 39.4 |
| Commercial..... | 302 | 357 | 565 | 7.2 | 26.3 | 25.4 | 25.5 |
| Industrial..... | 378 | 466 | 738 | 7.7 | 32.9 | 33.1 | 33.3 |
| Other..... | 40 | 39 | 39 | -5 | 3.5 | 2.8 | 1.7 |
| Total..... | 1,148 | 1,406 | 2,213 | 7.6 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.06 | 7.23 | 9.08 | 2.8 | NA | NA | NA |
| Commercial..... | 7.22 | 6.93 | 8.45 | 1.8 | NA | NA | NA |
| Industrial..... | 5.62 | 5.14 | 6.56 | 1.7 | NA | NA | NA |
| Other..... | 5.50 | 4.78 | 6.15 | 1.2 | NA | NA | NA |
| Total..... | 6.49 | 6.23 | 7.86 | 2.2 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|---------|
| Nevada | | | | | | |
| Number of Entities..... | 1 | 15 | 0 | 5 | 0 | 21 |
| Number of Retail Customers..... | 626,168 | 308,857 | 0 | 12,559 | 0 | 947,584 |
| Retail Sales (thousand megawatthours)..... | 17,201 | 10,054 | 0 | 912 | 0 | 28,167 |
| Percentage of Retail Sales..... | 61.07 | 35.69 | .00 | 3.24 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,421 | 752 | 0 | 40 | 0 | 2,213 |
| Percentage of Revenue..... | 64.22 | 33.97 | .00 | 1.81 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 8.26 | 7.48 | .00 | 4.39 | 0 | 7.86 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| New Hampshire | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 2,844 | 44 |
| Utility..... | 1,128 | 43 |
| Nonutility..... | 1,716 | 26 |
| Net Generation (megawatthours) | 15,074,629 | 43 |
| Utility..... | 13,095,085 | 37 |
| Nonutility..... | 1,979,544 | 39 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 4,716 | 45 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 526 | 32 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 10,316,372 | 44 |
| Utility Retail Electricity Sales (megawatthours) | 10,315,188 | 42 |
| ESP Retail Electricity Sales (megawatthours)..... | 1,184 | 21 |
| Direct Use (megawatthours)..... | 435,136 | 32 |
| Average Retail Price (cents/kWh)..... | 10.95 | 5 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------------|----------------------|---------------------------------|---------------------|
| New Hampshire | | | |
| 1. Seabrook..... | Nuclear | FPL Energy Seabrook LLC | 1,161 |
| 2. Merrimack | Petroleum, Coal | Public Service Co of NH | 466 |
| 3. Newington | Gas, Petroleum | Public Service Co of NH | 408 |
| 4. Schiller | Gas, Petroleum, Coal | Public Service Co of NH | 160 |
| 5. Comerford | Hydro | U S Gen New England Inc | 134 |
| 6. S C Moore | Hydro | U S Gen New England Inc | 134 |
| 7. Berlin Gorham | Hydro, Other | American Tissue NH Electric Inc | 44 |
| 8. Pinetree Power Tamwor | Other | Pinetree Power Tamworth Inc | 20 |
| 9. Amoskeag..... | Hydro | Public Service Co of NH | 17 |
| 10. White Lake | Petroleum | Public Service Co of NH | 17 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|---------|
| New Hampshire | | | | | |
| A. Public Service Company of NH | 7,413,739 | 2,592,262 | 2,872,861 | 1,925,878 | 22,738 |
| B. Granite State Electric Company..... | 792,412 | 263,140 | 413,766 | 112,323 | 3,183 |
| C. New Hampshire Elec Coop, Inc..... | 627,012 | 378,012 | 207,413 | 40,069 | 1,518 |
| D. Exeter & Hampton Electric Co..... | 594,385 | 274,638 | 138,872 | 148,720 | 32,155 |
| E. Concord Electric Company..... | 547,214 | 166,499 | 154,933 | 154,785 | 70,997 |
| Total | 9,974,762 | 3,674,551 | 3,787,845 | 2,381,775 | 130,591 |
| Percentage of Utility Sales..... | 97 | 97 | 97 | 96 | 98 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| New Hampshire | | | | | | | |
| Coal..... | 578 | 578 | 575 | 0.0 | 20.9 | 20.9 | 20.2 |
| Petroleum..... | 66 | 66 | 65 | -.3 | 2.4 | 2.4 | 2.3 |
| Dual Fired..... | 423 | 423 | 425 | .0 | 15.3 | 15.3 | 14.9 |
| Nuclear..... | 1,150 | 1,162 | 0 | -100.0 | 41.5 | 42.0 | .0 |
| Hydroelectric..... | 290 | 284 | 64 | -15.5 | 10.5 | 10.3 | 2.2 |
| Total Utility..... | 2,507 | 2,512 | 1,128 | -8.5 | 90.6 | 90.8 | 39.7 |
| Petroleum..... | W | W | 32 | W | W | W | 1.1 |
| Natural Gas..... | 0 | 0 | 18 | .0 | .0 | .0 | .6 |
| Dual Fired..... | W | W | 7 | W | W | W | .2 |
| Nuclear..... | 0 | 0 | 1,161 | .0 | .0 | .0 | 40.8 |
| Hydroelectric..... | 89 | 88 | 366 | 17.0 | 3.2 | 3.2 | 12.9 |
| Other Renewables..... | W | W | 132 | W | W | W | 4.6 |
| Total Nonutility..... | 261 | 255 | 1,715 | 23.2 | 9.4 | 9.2 | 60.3 |
| Coal..... | 578 | 578 | 575 | .0 | 20.9 | 20.9 | 20.2 |
| Petroleum..... | W | W | 97 | W | W | W | 3.4 |
| Natural Gas..... | 0 | 0 | 18 | .0 | .0 | .0 | .6 |
| Dual Fired..... | W | W | 431 | W | W | W | 15.2 |
| Nuclear..... | 1,150 | 1,162 | 1,161 | .1 | 41.5 | 42.0 | 40.8 |
| Hydroelectric..... | 379 | 372 | 429 | 1.4 | 13.7 | 13.4 | 15.1 |
| Other Renewables..... | W | W | 132 | W | W | W | 4.6 |
| Total Industry..... | 2,768 | 2,767 | 2,843 | .3 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| New Hampshire | | | | | | | |
| Coal..... | 3,187,087 | 3,309,695 | 3,706,399 | 1.7 | 21.1 | 19.4 | 24.6 |
| Petroleum..... | 1,374,000 | 838,243 | 428,990 | -12.1 | 9.1 | 4.9 | 2.8 |
| Natural Gas..... | 57,001 | 280 | 42,143 | -3.3 | .4 | .0 | .3 |
| Nuclear..... | 7,868,653 | 9,844,744 | 8,692,743 | 1.1 | 52.1 | 57.7 | 57.7 |
| Hydroelectric..... | 964,442 | 1,425,600 | 224,810 | -14.9 | 6.4 | 8.4 | 1.5 |
| Total Utility..... | 13,451,183 | 15,418,562 | 13,095,085 | -.3 | 89.0 | 90.4 | 86.9 |
| Petroleum..... | 39,274 | 57,502 | 52,690 | 3.3 | .3 | .3 | .3 |
| Natural Gas..... | 0 | 1,819 | 76,381 | .0 | .0 | .0 | .5 |
| Hydroelectric..... | 429,190 | 493,606 | 765,771 | 6.6 | 2.8 | 2.9 | 5.1 |
| Other Renewable..... | 1,197,607 | 1,092,163 | 1,084,702 | -1.1 | 7.9 | 6.4 | 7.2 |
| Total Nonutility..... | 1,666,070 | 1,645,088 | 1,979,544 | 1.9 | 11.0 | 9.6 | 13.1 |
| Coal..... | 3,187,087 | 3,309,695 | 3,706,399 | 1.7 | 21.1 | 19.4 | 24.6 |
| Petroleum..... | 1,413,274 | 895,745 | 481,680 | -11.3 | 9.3 | 5.2 | 3.2 |
| Natural Gas..... | 57,001 | 2,099 | 118,524 | 8.5 | .4 | .0 | .8 |
| Nuclear..... | 7,868,653 | 9,844,744 | 8,692,743 | 1.1 | 52.1 | 57.7 | 57.7 |
| Hydroelectric..... | 1,393,632 | 1,919,206 | 990,581 | -3.7 | 9.2 | 11.2 | 6.6 |
| Other Renewable..... | 1,197,607 | 1,092,163 | 1,084,702 | -1.1 | 7.9 | 6.4 | 7.2 |
| Total Industry..... | 15,117,253 | 17,063,650 | 15,074,629 | .0 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| New Hampshire | | | | |
| Coal (2001 cents per million Btu) | 192.4 | 168.4 | 167.2 | -1.5 |
| Average heat value (Btu per pound) | 13,260 | 13,146 | 13,013 | -.2 |
| Average sulfur Content(percent) | 1.6 | 1.6 | 1.3 | -2.0 |
| Petroleum (2001 cents per million Btu) | 212.1 | 266.7 | 336.7 | 5.3 |
| Average heat value (Btu per gallon)..... | 156,759 | 154,517 | 152,476 | -.3 |
| Average sulfur Content(percent) | 1.7 | 1.8 | .8 | -7.8 |
| Gas (2001 cents per million Btu)..... | 235.0 | .0 | 238.7 | .2 |
| Average heat value (Btu per cubic foot.....) | 1018.0 | .0 | 1074.1 | .6 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|-------|-------|-------|--|
| New Hampshire | | | | |
| Sulfur Dioxide | | | | |
| Coal | 43 | 41 | NA | NA |
| Petroleum | 13 | 10 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 56 | 51 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 19 | 15 | NA | NA |
| Petroleum | 1 | 1 | NA | NA |
| Gas..... | * | 0 | NA | NA |
| Other..... | 1 | 1 | NA | NA |
| Total | 22 | 18 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 3,387 | 3,668 | 4,081 | 2.1 |
| Petroleum | 1,315 | 864 | 524 | -9.7 |
| Gas..... | 37 | 1 | 77 | 8.3 |
| Other..... | 31 | 32 | 34 | 1.0 |
| Total | 4,770 | 4,565 | 4,716 | -.1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|--------|--|-----------------------|-----------------------|-----------------------|
| New Hampshire | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 3,428 | 3,427 | 3,789 | 1.1 | 38.3 | 37.5 | 36.7 |
| Commercial..... | 2,077 | 3,239 | 3,912 | 7.3 | 23.2 | 35.5 | 37.9 |
| Industrial..... | 3,333 | 2,334 | 2,483 | -3.2 | 37.2 | 25.6 | 24.1 |
| Other..... | 116 | 127 | 133 | 1.5 | 1.3 | 1.4 | 1.3 |
| Total..... | 8,954 | 9,127 | 10,316 | 1.6 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 444 | 483 | 473 | .7 | 43.6 | 43.5 | 41.9 |
| Commercial..... | 246 | 384 | 412 | 5.9 | 24.1 | 34.6 | 36.5 |
| Industrial..... | 311 | 224 | 226 | -3.5 | 30.5 | 20.2 | 20.0 |
| Other..... | 18 | 18 | 18 | -.1 | 1.8 | 1.6 | 1.6 |
| Total..... | 1,019 | 1,109 | 1,129 | 1.1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.96 | 14.08 | 12.49 | -4 | NA | NA | NA |
| Commercial..... | 11.84 | 11.86 | 10.53 | -1.3 | NA | NA | NA |
| Industrial..... | 9.32 | 9.60 | 9.11 | -3 | NA | NA | NA |
| Other..... | 15.32 | 13.97 | 13.28 | -1.6 | NA | NA | NA |
| Total..... | 11.38 | 12.15 | 10.95 | -4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| New Hampshire | | | | | | |
| Number of Entities..... | 6 | 5 | 0 | 1 | 1 | 13 |
| Number of Retail Customers..... | 558,513 | 10,642 | 0 | 70,400 | 1 | 639,556 |
| Retail Sales (thousand megawatthours)..... | 9,512 | 176 | 0 | 627 | 1 | 10,316 |
| Percentage of Retail Sales..... | 92.21 | 1.70 | .00 | 6.08 | .01 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,026 | 16 | 0 | 87 | 0 | 1,129 |
| Percentage of Revenue..... | 90.86 | 1.46 | .00 | 7.68 | .01 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 10.79 | 9.35 | .00 | 13.82 | 0 | 10.95 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| New Jersey | | |
| North American Electric Reliability Council (NERC) Region(s) | | MACC |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 16,083 | 21 |
| Utility..... | 1,244 | 42 |
| Nonutility..... | 14,839 | 6 |
| Net Generation (megawatthours) | 59,421,254 | 22 |
| Utility..... | 1,630,319 | 46 |
| Nonutility..... | 57,790,935 | 6 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 21,797 | 37 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 2,938 | 8 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 72,339,691 | 20 |
| Utility Retail Electricity Sales (megawatthours) | 70,042,021 | 20 |
| ESP Retail Electricity Sales (megawatthours)..... | 2,297,670 | 8 |
| Direct Use (megawatthours)..... | 14,212,540 | 4 |
| Average Retail Price (cents/kWh)..... | 9.42 | 11 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------|----------------|--------------------------------|---------------------|
| New Jersey | | | |
| 1. Salem Unit 1& 2 | Other, Nuclear | PSEG Nuclear LLC | 2,259 |
| 2. Hudson | Other | PSEG Fossil LLC | 1,120 |
| 3. Hope Creek | Nuclear | PSEG Nuclear LLC | 1,049 |
| 4. Burlington | Other | PSEG Fossil LLC | 806 |
| 5. Kearny | Other | PSEG Fossil LLC | 765 |
| 6. Linden | Other | PSEG Fossil LLC | 764 |
| 7. Linden Cogen..... | Other | Cogen Technologies Linden Vent | 717 |
| 8. Mercer | Other | PSEG Fossil LLC | 710 |
| 9. Bergen | Other | PSEG Fossil LLC | 696 |
| 10. Essex..... | Other | PSEG Fossil LLC | 617 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| New Jersey | | | | | |
| A. Public Service Electric&Gas Co..... | 39,988,847 | 11,850,672 | 20,054,173 | 7,731,075 | 352,927 |
| B. Jersey Central Power&Light Co | 18,956,920 | 8,430,438 | 7,597,091 | 2,846,221 | 83,170 |
| C. Atlantic City Electric Company | 8,537,727 | 3,857,519 | 3,626,556 | 1,007,647 | 46,005 |
| D. Rockland Electric Company..... | 1,460,674 | 645,329 | 757,174 | 51,415 | 6,756 |
| E. KeySpan Energy Services, Inc | 523,993 | 19,587 | 504,406 | 0 | 0 |
| Total | 69,468,161 | 24,803,545 | 32,539,400 | 11,636,358 | 488,858 |
| Percentage of Utility Sales..... | 96 | 98 | 96 | 94 | 98 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| New Jersey | | | | | | | |
| Coal..... | 1,629 | 1,629 | 387 | -14.8 | 10.3 | 9.7 | 2.3 |
| Petroleum..... | 3,408 | 2,764 | 286 | -24.1 | 21.6 | 16.4 | 1.7 |
| Natural Gas..... | 2,489 | 3,034 | 0 | -100.0 | 15.7 | 18.0 | .0 |
| Dual Fired..... | 2,085 | 1,956 | 171 | -24.3 | 13.2 | 11.6 | 1.0 |
| Nuclear..... | 3,853 | 3,862 | 0 | -100.0 | 24.4 | 23.0 | .0 |
| Hydroelectric..... | 360 | 400 | 400 | 1.2 | 2.3 | 2.4 | 2.4 |
| Total Utility..... | 13,824 | 13,645 | 1,244 | -23.5 | 87.4 | 81.1 | 7.5 |
| Coal..... | W | W | 1,701 | W | W | W | 10.2 |
| Petroleum..... | W | W | 1,908 | W | W | W | 11.4 |
| Natural Gas..... | 312 | 548 | 2,341 | 25.1 | 2.0 | 3.3 | 14.0 |
| Other Gases..... | 0 | 0 | 21 | .0 | .0 | .0 | .1 |
| Dual Fired..... | 1,528 | 1,944 | 5,403 | 15.1 | 9.7 | 11.6 | 32.4 |
| Nuclear..... | 0 | 0 | 3,875 | .0 | .0 | .0 | 23.2 |
| Hydroelectric..... | W | W | 12 | W | W | W | .1 |
| Other Renewables..... | 129 | 169 | 182 | 3.9 | .8 | 1.0 | 1.1 |
| Total Nonutility..... | 1,988 | 3,183 | 15,443 | 25.6 | 12.6 | 18.9 | 92.5 |
| Coal..... | W | W | 2,088 | W | W | W | 12.5 |
| Petroleum..... | W | W | 2,194 | W | W | W | 13.1 |
| Natural Gas..... | 2,801 | 3,582 | 2,341 | -2.0 | 17.7 | 21.3 | 14.0 |
| Other Gases..... | 0 | 0 | 21 | .0 | .0 | .0 | .1 |
| Dual Fired..... | 3,613 | 3,900 | 5,574 | 4.9 | 22.9 | 23.2 | 33.4 |
| Nuclear..... | 3,853 | 3,862 | 3,875 | .1 | 24.4 | 23.0 | 23.2 |
| Hydroelectric..... | W | W | 412 | W | W | W | 2.5 |
| Other Renewables..... | 129 | 169 | 182 | 3.9 | .8 | 1.0 | 1.1 |
| Total Industry..... | 15,812 | 16,828 | 16,687 | .6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| New Jersey | | | | | | | |
| Coal..... | 5,409,083 | 5,826,375 | 1,439,282 | -13.7 | 12.4 | 15.4 | 2.4 |
| Petroleum..... | 1,016,038 | 611,361 | 230,522 | -15.2 | 2.3 | 1.6 | .4 |
| Natural Gas..... | 3,284,673 | 2,439,308 | 102,255 | -32.0 | 7.5 | 6.5 | .2 |
| Nuclear..... | 21,595,097 | 11,027,886 | 0 | -100.0 | 49.5 | 29.2 | .0 |
| Hydroelectric..... | -138,298 | -114,233 | -141,740 | .3 | -3 | -3 | -2 |
| Total Utility..... | 31,166,593 | 19,790,697 | 1,630,319 | -28.0 | 71.4 | 52.5 | 2.7 |
| Coal..... | 0 | 2,005,319 | 7,879,759 | .0 | .0 | 5.3 | 13.3 |
| Petroleum..... | 292,335 | 629,750 | 1,066,098 | 15.5 | .7 | 1.7 | 1.8 |
| Natural Gas..... | 11,230,358 | 14,095,175 | 16,605,940 | 4.4 | 25.7 | 37.4 | 27.9 |
| Other Gases..... | 48,157 | 163,374 | 448,886 | 28.2 | .1 | .4 | .8 |
| Nuclear..... | 0 | 0 | 30,469,230 | .0 | .0 | .0 | 51.3 |
| Hydroelectric..... | 22,380 | 19,033 | 18,001 | -2.4 | .1 | .1 | .0 |
| Other Renewable..... | 904,188 | 1,013,235 | 1,303,022 | 4.1 | 2.1 | 2.7 | 2.2 |
| Total Nonutility..... | 12,497,417 | 17,925,886 | 57,790,935 | 18.5 | 28.6 | 47.5 | 97.3 |
| Coal..... | 5,409,083 | 7,831,694 | 9,319,041 | 6.2 | 12.4 | 20.8 | 15.7 |
| Petroleum..... | 1,308,373 | 1,241,111 | 1,296,620 | -1 | 3.0 | 3.3 | 2.2 |
| Natural Gas..... | 14,515,031 | 16,534,483 | 16,708,195 | 1.6 | 33.2 | 43.8 | 28.1 |
| Other Gases..... | 48,157 | 163,374 | 448,886 | 28.2 | .1 | .4 | .8 |
| Nuclear..... | 21,595,097 | 11,027,886 | 30,469,230 | 3.9 | 49.5 | 29.2 | 51.3 |
| Hydroelectric..... | -115,919 | -95,200 | -123,739 | .7 | -3 | -3 | -2 |
| Other Renewable..... | 904,188 | 1,013,235 | 1,303,022 | 4.1 | 2.1 | 2.7 | 2.2 |
| Total Industry..... | 43,664,010 | 37,716,583 | 59,421,254 | 3.5 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| New Jersey | | | | |
| Coal (2001 cents per million Btu)..... | 197.6 | 183.6 | 227.4 | 1.6 |
| Average heat value (Btu per pound)..... | 13,465 | 12,993 | 12,883 | -.5 |
| Average sulfur Content(percent)..... | 1.3 | 1.4 | 1.6 | 2.2 |
| Petroleum (2001 cents per million Btu)..... | 346.2 | 376.0 | 454.0 | 3.0 |
| Average heat value (Btu per gallon)..... | 148,865 | 147,323 | 149,974 | .1 |
| Average sulfur Content(percent)..... | .4 | .3 | .8 | 8.6 |
| Gas (2001 cents per million Btu)..... | 240.8 | 303.7 | 335.6 | 3.8 |
| Average heat value (Btu per cubic foot)..... | 1034.3 | 1020.1 | 1022.0 | -.1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-------------------|--------|--------|--------|--|
| New Jersey | | | | |
| Sulfur Dioxide | | | | |
| Coal | 55 | 46 | NA | NA |
| Petroleum | 5 | 7 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 61 | 54 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 32 | 33 | NA | NA |
| Petroleum | 3 | 1 | NA | NA |
| Gas..... | 12 | 15 | NA | NA |
| Other..... | 2 | 2 | NA | NA |
| Total | 48 | 50 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 5,817 | 8,474 | 11,174 | 7.5 |
| Petroleum | 1,272 | 1,027 | 1,350 | .7 |
| Gas..... | 7,664 | 8,457 | 9,012 | 1.8 |
| Other..... | 136 | 146 | 260 | 7.4 |
| Total | 14,889 | 18,104 | 21,797 | 4.3 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| New Jersey | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 20,547 | 22,632 | 25,429 | 2.4 | 32.5 | 33.8 | 35.1 |
| Commercial..... | 27,403 | 30,152 | 34,046 | 2.4 | 43.4 | 45.1 | 47.1 |
| Industrial | 14,687 | 13,603 | 12,365 | -1.9 | 23.3 | 20.3 | 17.1 |
| Other | 485 | 502 | 499 | .3 | .8 | .8 | .7 |
| Total | 63,122 | 66,889 | 72,340 | 1.5 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 2,547 | 2,843 | 2,603 | .2 | 37.2 | 38.6 | 38.2 |
| Commercial..... | 2,918 | 3,260 | 3,130 | .8 | 42.6 | 44.3 | 45.9 |
| Industrial | 1,291 | 1,162 | 1,023 | -2.6 | 18.8 | 15.8 | 15.0 |
| Other | 93 | 96 | 57 | -5.2 | 1.3 | 1.3 | .8 |
| Total | 6,849 | 7,361 | 6,813 | -1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.40 | 12.56 | 10.24 | -2.1 | NA | NA | NA |
| Commercial..... | 10.65 | 10.81 | 9.19 | -1.6 | NA | NA | NA |
| Industrial | 8.79 | 8.54 | 8.27 | -.7 | NA | NA | NA |
| Other | 19.10 | 19.16 | 11.51 | -5.5 | NA | NA | NA |
| Total | 10.85 | 11.01 | 9.42 | -1.6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|--------|---------|-------------|--------------------------|-----------|
| New Jersey | | | | | | |
| Number of Entities | 4 | 9 | 0 | 1 | 20 | 34 |
| Number of Retail Customers..... | 3,558,122 | 55,506 | 0 | 10,999 | 22,598 | 3,647,225 |
| Retail Sales (thousand megawatthours)..... | 68,944 | 969 | 0 | 128 | 2,298 | 72,340 |
| Percentage of Retail Sales..... | 95.31 | 1.34 | .00 | .18 | 3.18 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 6,606 | 91 | 0 | 14 | 103 | 6,813 |
| Percentage of Revenue | 96.95 | 1.33 | .00 | .20 | 1.51 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 9.58 | 9.38 | .00 | 10.82 | 0 | 9.42 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| New Mexico | | |
| North American Electric Reliability Council (NERC) Region(s) | | SPP/WSCC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 5,659 | 38 |
| Utility..... | 5,250 | 32 |
| Nonutility..... | 409 | 44 |
| Net Generation (megawatthours) | 33,611,642 | 37 |
| Utility..... | 32,210,683 | 31 |
| Nonutility..... | 1,400,959 | 41 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 33,633 | 31 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 277 | 42 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 18,726,594 | 39 |
| Utility Retail Electricity Sales (megawatthours) | 18,726,594 | 39 |
| Direct Use (megawatthours)..... | 537,434 | 29 |
| Average Retail Price (cents/kWh)..... | 7.16 | 18 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 511 |
| 4. Escalante | Gas, Coal | Tri-State G & T Assn Inc | 247 |
| 5. Rio Grande..... | Gas | El Paso Electric Co | 236 |
| 6. Maddox | Gas | Southwestern Public Service Co | 194 |
| 7. Reeves | Gas | Public Service Co of NM | 154 |
| 8. Delta Person LLC..... | Other | Delta Person LP | 140 |
| 9. Chino Mines Co..... | Other | Phelps Dodge Corp-Chino Mines | 95 |
| 10. Milagro Cogen | Other | Williams Field Services Co | 61 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| New Mexico | | | | | |
| A. Public Service Company of NM..... | 7,255,297 | 2,197,889 | 3,213,208 | 1,603,266 | 240,934 |
| B. Southwestern Public Service Co..... | 3,418,034 | 840,291 | 1,354,360 | 1,086,210 | 137,173 |
| C. El Paso Electric Company..... | 1,304,178 | 447,398 | 409,267 | 80,377 | 367,136 |
| D. Texas-New Mexico Power Company | 1,096,735 | 233,670 | 245,399 | 600,483 | 17,183 |
| E. City of Farmington..... | 934,043 | 201,405 | 324,400 | 396,709 | 11,529 |
| Total | 14,008,287 | 3,920,653 | 5,546,634 | 3,767,045 | 773,955 |
| Percentage of Utility Sales..... | 75 | 78 | 81 | 71 | 48 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| New Mexico | | | | | | | |
| Coal..... | 3,901 | 3,901 | 3,942 | 0.1 | 75.0 | 73.4 | 69.7 |
| Petroleum..... | 24 | 24 | 0 | -100.0 | .5 | .4 | .0 |
| Natural Gas..... | 768 | 783 | 925 | 2.1 | 14.8 | 14.7 | 16.3 |
| Dual Fired..... | 311 | 311 | 301 | -.4 | 6.0 | 5.9 | 5.3 |
| Hydroelectric..... | 59 | 58 | 82 | 3.7 | 1.1 | 1.1 | 1.4 |
| Total Utility..... | 5,062 | 5,077 | 5,250 | .4 | 97.3 | 95.5 | 92.8 |
| Petroleum..... | W | W | 10 | W | W | W | .2 |
| Natural Gas..... | 51 | 106 | 213 | 17.2 | 1.0 | 2.0 | 3.8 |
| Dual Fired..... | W | W | 184 | W | W | W | 3.2 |
| Other Renewables..... | W | W | 2 | W | W | W | .0 |
| Total Nonutility..... | 141 | 237 | 409 | 12.6 | 2.7 | 4.5 | 7.2 |
| Coal..... | 3,901 | 3,901 | 3,942 | .1 | 75.0 | 73.4 | 69.7 |
| Petroleum..... | W | W | 10 | W | W | W | .2 |
| Natural Gas..... | 819 | 889 | 1,138 | 3.7 | 15.7 | 16.7 | 20.1 |
| Dual Fired..... | W | W | 485 | W | W | W | 8.6 |
| Hydroelectric..... | 59 | 58 | 82 | 3.7 | 1.1 | 1.1 | 1.4 |
| Other Renewables..... | W | W | 2 | W | W | W | .0 |
| Total Industry..... | 5,203 | 5,314 | 5,659 | .9 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| New Mexico | | | | | | | |
| Coal..... | 25,348,413 | 26,357,179 | 28,402,187 | 1.3 | 90.3 | 87.4 | 84.5 |
| Petroleum..... | 35,614 | 22,452 | 30,210 | -1.8 | .1 | .1 | .1 |
| Natural Gas..... | 2,068,440 | 2,773,259 | 3,540,966 | 6.2 | 7.4 | 9.2 | 10.5 |
| Hydroelectric..... | 255,046 | 211,499 | 237,320 | -.8 | .9 | .7 | .7 |
| Total Utility..... | 27,707,513 | 29,364,389 | 32,210,683 | 1.7 | 98.7 | 97.4 | 95.8 |
| Petroleum..... | W | W | 36,002 | W | W | W | .1 |
| Natural Gas..... | 346,253 | 782,082 | 1,346,305 | 16.3 | 1.2 | 2.6 | 4.0 |
| Other Renewable..... | W | W | 18,652 | W | W | W | .1 |
| Total Nonutility..... | 361,926 | 796,900 | 1,400,959 | 16.2 | 1.3 | 2.6 | 4.2 |
| Coal..... | 25,348,413 | 26,357,179 | 28,402,187 | 1.3 | 90.3 | 87.4 | 84.5 |
| Petroleum..... | W | W | 66,212 | W | W | W | .2 |
| Natural Gas..... | 2,414,693 | 3,555,341 | 4,887,271 | 8.1 | 8.6 | 11.8 | 14.5 |
| Hydroelectric..... | 255,046 | 211,499 | 237,320 | -.8 | .9 | .7 | .7 |
| Other Renewable..... | W | W | 18,652 | W | W | W | .1 |
| Total Industry..... | 28,069,439 | 30,161,289 | 33,611,642 | 2.0 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|---------|--|
| New Mexico | | | | |
| Coal (2001 cents per million Btu) | 150.9 | 149.7 | 147.4 | -0.3 |
| Average heat value (Btu per pound) | 9,013 | 9,116 | 9,308 | .3 |
| Average sulfur Content(percent) | .8 | .8 | .7 | -1.4 |
| Petroleum (2001 cents per million Btu) | 588.5 | 615.1 | 631.5 | .8 |
| Average heat value (Btu per gallon) | 135,678 | 136,000 | 136,000 | * |
| Gas (2001 cents per million Btu) | 223.0 | 238.9 | 415.0 | 7.1 |
| Average heat value (Btu per cubic foot) | 1016.8 | 1011.7 | 1016.9 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| New Mexico | | | | |
| Sulfur Dioxide | | | | |
| Coal | 58 | 78 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Total | 58 | 79 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 113 | 79 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 3 | 4 | NA | NA |
| Other | * | * | NA | NA |
| Total | 116 | 83 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 27,579 | 28,724 | 30,573 | 1.1 |
| Petroleum | 34 | 24 | 61 | 6.7 |
| Gas | 1,590 | 2,281 | 2,999 | 7.3 |
| Total | 29,203 | 31,029 | 33,633 | 1.6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| New Mexico | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 3,791 | 4,328 | 4,999 | 3.1 | 26.3 | 25.2 | 26.7 |
| Commercial..... | 4,630 | 5,296 | 6,844 | 4.4 | 32.1 | 30.8 | 36.5 |
| Industrial..... | 4,609 | 5,921 | 5,272 | 1.5 | 31.9 | 34.5 | 28.1 |
| Other..... | 1,401 | 1,628 | 1,612 | 1.6 | 9.7 | 9.5 | 8.6 |
| Total..... | 14,431 | 17,173 | 18,727 | 2.9 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 392 | 405 | 437 | 1.2 | 33.4 | 33.3 | 32.6 |
| Commercial..... | 437 | 440 | 513 | 1.8 | 37.3 | 36.2 | 38.3 |
| Industrial..... | 252 | 270 | 287 | 1.5 | 21.5 | 22.2 | 21.4 |
| Other..... | 91 | 101 | 103 | 1.4 | 7.7 | 8.3 | 7.7 |
| Total..... | 1,172 | 1,216 | 1,340 | 1.5 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 10.34 | 9.35 | 8.74 | -1.8 | NA | NA | NA |
| Commercial..... | 9.44 | 8.31 | 7.50 | -2.5 | NA | NA | NA |
| Industrial..... | 5.47 | 4.56 | 5.45 | * | NA | NA | NA |
| Other..... | 6.46 | 6.21 | 6.37 | -2 | NA | NA | NA |
| Total..... | 8.12 | 7.08 | 7.16 | -1.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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..... | 496,057 | 213,782 | 0 | 149,101 | 0 | 858,940 |
| Retail Sales (thousand megawatthours)..... | 9,656 | 6,301 | 0 | 2,769 | 0 | 18,727 |
| Percentage of Retail Sales..... | 51.56 | 33.65 | .00 | 14.79 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 754 | 386 | 0 | 200 | 0 | 1,340 |
| Percentage of Revenue..... | 56.26 | 28.83 | .00 | 14.91 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.81 | 6.13 | .00 | 7.21 | 0 | 7.16 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| New York | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 35,654 | 6 |
| Utility..... | 11,572 | 20 |
| Nonutility..... | 24,082 | 5 |
| Net Generation (megawatthours) | 143,914,537 | 6 |
| Utility..... | 58,568,850 | 17 |
| Nonutility..... | 85,345,687 | 5 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 61,612 | 16 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,305 | 21 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 141,398,705 | 5 |
| Utility Retail Electricity Sales (megawatthours) | 125,587,178 | 5 |
| ESP Retail Electricity Sales (megawatthours)..... | 15,811,527 | 3 |
| Direct Use (megawatthours)..... | 7,092,977 | 5 |
| Average Retail Price (cents/kWh)..... | 11.63 | 3 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------------|-----------------------|---------------------------------|---------------------|
| New York | | | |
| 1. Ravenswood..... | Other | KeySpan-Ravenswood Inc | 2,185 |
| 2. Moses Niagara | Hydro | Power Authority of State of NY | 2,160 |
| 3. Nine Mile Point | Petroleum, Nuclear | Nine Mile Point Nuclear Sta LLC | 1,756 |
| 4. Oswego Harbor..... | Other | NRG Oswego Harbor Power Operati | 1,700 |
| 5. Northport..... | Gas, Petroleum | KeySpan Generation LLC | 1,535 |
| 6. Astoria..... | Other | Astoria Generating Co LP | 1,293 |
| 7. Roseton..... | Gas, Petroleum, Other | Dynegy Northeast Gen Inc | 1,205 |
| 8. Bowline Point | Other | Mirant New York Inc | 1,139 |
| 9. Blenheim-Gilboa..... | Hydro | Power Authority of State of NY | 1,057 |
| 10. Sithe Independence St..... | Other | Sithe/Independence Pwr Part LP | 989 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|------------|
| New York | | | | | |
| A. Consolidated Edison Co-NY, Inc..... | 31,999,746 | 12,049,882 | 19,222,099 | 561,692 | 166,073 |
| B. Niagara Mohawk Power Corp..... | 29,955,211 | 9,833,764 | 9,897,376 | 10,069,048 | 155,023 |
| C. Long Island Power Authority..... | 17,572,290 | 8,143,069 | 9,002,154 | 0 | 427,067 |
| D. Power Authority of State of NY..... | 14,454,316 | 0 | 124,830 | 4,794,134 | 9,535,352 |
| E. New York State Elec & Gas Corp..... | 12,191,767 | 5,288,097 | 2,882,701 | 2,848,457 | 1,172,512 |
| Total | 106,173,330 | 35,314,812 | 41,129,160 | 18,273,331 | 11,456,027 |
| Percentage of Utility Sales..... | 75 | 80 | 69 | 74 | 87 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| New York | | | | | | | |
| Coal..... | 3,897 | 3,891 | 302 | -24.7 | 11.6 | 10.9 | 0.8 |
| Petroleum..... | 5,216 | 4,853 | 2,283 | -8.8 | 15.6 | 13.6 | 6.4 |
| Natural Gas..... | 5,177 | 2,501 | 784 | -18.9 | 15.4 | 7.0 | 2.2 |
| Dual Fired..... | 6,903 | 8,865 | 3,253 | -8.0 | 20.6 | 24.8 | 9.1 |
| Nuclear..... | 4,831 | 4,853 | 498 | -22.3 | 14.4 | 13.6 | 1.4 |
| Hydroelectric..... | 5,085 | 5,097 | 4,452 | -1.5 | 15.2 | 14.3 | 12.5 |
| Total Utility..... | 31,108 | 30,060 | 11,572 | -10.4 | 92.8 | 84.2 | 32.5 |
| Coal..... | 374 | 395 | 3,811 | 29.4 | 1.1 | 1.1 | 10.7 |
| Petroleum..... | 65 | 47 | 1,202 | 38.3 | .2 | .1 | 3.4 |
| Natural Gas..... | 369 | 2,201 | 3,500 | 28.4 | 1.1 | 6.2 | 9.8 |
| Other Gases..... | 20 | 22 | 0 | -100.0 | .1 | .1 | .0 |
| Dual Fired..... | 937 | 2,205 | 9,695 | 29.6 | 2.8 | 6.2 | 27.2 |
| Nuclear..... | 0 | 0 | 4,550 | .0 | .0 | .0 | 12.8 |
| Hydroelectric..... | W | W | 957 | W | W | W | 2.7 |
| Other Renewables..... | W | W | 365 | W | W | W | 1.0 |
| Total Nonutility..... | 2,402 | 5,652 | 24,080 | 29.2 | 7.2 | 15.8 | 67.5 |
| Coal..... | 4,271 | 4,287 | 4,113 | -.4 | 12.7 | 12.0 | 11.5 |
| Petroleum..... | 5,281 | 4,899 | 3,485 | -4.5 | 15.8 | 13.7 | 9.8 |
| Natural Gas..... | 5,546 | 4,702 | 4,285 | -2.8 | 16.5 | 13.2 | 12.0 |
| Other Gases..... | 20 | 22 | 0 | -100.0 | .1 | .1 | .0 |
| Dual Fired..... | 7,840 | 11,070 | 12,948 | 5.7 | 23.4 | 31.0 | 36.3 |
| Nuclear..... | 4,831 | 4,853 | 5,047 | .5 | 14.4 | 13.6 | 14.2 |
| Hydroelectric..... | W | W | 5,410 | W | W | W | 15.2 |
| Other Renewables..... | W | W | 365 | W | W | W | 1.0 |
| Total Industry..... | 33,510 | 35,712 | 35,653 | .7 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| New York | | | | | | | |
| Coal..... | 24,921,250 | 20,444,407 | 2,087,952 | -24.1 | 19.8 | 15.1 | 1.5 |
| Petroleum..... | 17,786,151 | 9,324,758 | 9,177,172 | -7.1 | 14.1 | 6.9 | 6.4 |
| Natural Gas..... | 19,773,930 | 13,355,011 | 8,871,000 | -8.5 | 15.7 | 9.8 | 6.2 |
| Nuclear..... | 24,154,932 | 35,225,806 | 20,753,492 | -1.7 | 19.2 | 26.0 | 14.4 |
| Hydroelectric..... | 25,592,533 | 25,970,213 | 17,679,234 | -4.0 | 20.3 | 19.1 | 12.3 |
| Other Renewable..... | 0 | 39,886 | 0 | .0 | .0 | .0 | .0 |
| Total Utility..... | 112,228,796 | 104,360,081 | 58,568,850 | -7.0 | 89.1 | 76.9 | 40.7 |
| Coal..... | 2,358,454 | 2,227,383 | 21,343,971 | 27.7 | 1.9 | 1.6 | 14.8 |
| Petroleum..... | 533,107 | 391,839 | 7,334,918 | 33.8 | .4 | .3 | 5.1 |
| Natural Gas..... | 7,075,767 | 24,094,368 | 29,826,209 | 17.3 | 5.6 | 17.8 | 20.7 |
| Other Gases..... | 91,985 | 105,707 | 114,537 | 2.5 | .1 | .1 | .1 |
| Nuclear..... | 0 | 0 | 19,641,493 | .0 | .0 | .0 | 13.6 |
| Hydroelectric..... | 1,432,469 | 1,835,048 | 4,474,189 | 13.5 | 1.1 | 1.4 | 3.1 |
| Other Renewable..... | 2,228,347 | 2,717,822 | 2,610,370 | 1.8 | 1.8 | 2.0 | 1.8 |
| Total Nonutility..... | 13,720,128 | 31,372,167 | 85,345,687 | 22.5 | 10.9 | 23.1 | 59.3 |
| Coal..... | 27,279,704 | 22,671,790 | 23,431,923 | -1.7 | 21.7 | 16.7 | 16.3 |
| Petroleum..... | 18,319,258 | 9,716,597 | 16,512,090 | -1.1 | 14.5 | 7.2 | 11.5 |
| Natural Gas..... | 26,849,697 | 37,449,379 | 38,697,209 | 4.1 | 21.3 | 27.6 | 26.9 |
| Other Gases..... | 91,985 | 105,707 | 114,537 | 2.5 | .1 | .1 | .1 |
| Nuclear..... | 24,154,932 | 35,225,806 | 40,394,985 | 5.9 | 19.2 | 26.0 | 28.1 |
| Hydroelectric..... | 27,025,002 | 27,805,261 | 22,153,423 | -2.2 | 21.5 | 20.5 | 15.4 |
| Other Renewable..... | 2,228,347 | 2,757,708 | 2,610,370 | 1.8 | 1.8 | 2.0 | 1.8 |
| Total Industry..... | 125,948,924 | 135,732,248 | 143,914,537 | 1.5 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| New York | | | | |
| Coal (2001 cents per million Btu)..... | 169.8 | 149.6 | 141.6 | -2.0 |
| Average heat value (Btu per pound)..... | 12,978 | 13,013 | 13,086 | .1 |
| Average sulfur Content(percent)..... | 1.7 | 1.8 | 2.0 | 1.9 |
| Petroleum (2001 cents per million Btu)..... | 301.1 | 334.6 | 350.2 | 1.7 |
| Average heat value (Btu per gallon)..... | 150,899 | 149,672 | 151,561 | * |
| Average sulfur Content(percent)..... | .8 | .6 | .7 | -1.8 |
| Gas (2001 cents per million Btu)..... | 275.3 | 301.8 | 404.7 | 4.4 |
| Average heat value (Btu per cubic foot)..... | 1029.6 | 1029.1 | 1018.2 | -1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| New York | | | | |
| Sulfur Dioxide | | | | |
| Coal | 278 | 219 | NA | NA |
| Petroleum | 83 | 44 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 4 | 2 | NA | NA |
| Total | 365 | 265 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 95 | 58 | NA | NA |
| Petroleum | 24 | 12 | NA | NA |
| Gas | 29 | 31 | NA | NA |
| Other | 6 | 5 | NA | NA |
| Total | 154 | 107 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 29,428 | 24,395 | 25,157 | -1.7 |
| Petroleum | 16,033 | 8,810 | 15,234 | -6 |
| Gas | 16,309 | 19,773 | 20,827 | 2.8 |
| Other | 351 | 375 | 395 | 1.3 |
| Total | 62,121 | 53,353 | 61,612 | -1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| New York | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 38,720 | 40,285 | 44,048 | 1.4 | 30.1 | 30.6 | 31.1 |
| Commercial | 46,591 | 52,915 | 59,423 | 2.7 | 36.3 | 40.2 | 42.0 |
| Industrial | 31,027 | 25,947 | 24,689 | -2.5 | 24.1 | 19.7 | 17.5 |
| Other | 12,132 | 12,380 | 13,238 | 1.0 | 9.4 | 9.4 | 9.4 |
| Total | 128,470 | 131,527 | 141,399 | 1.1 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 5,490 | 5,924 | 6,195 | 1.3 | 36.8 | 38.6 | 37.7 |
| Commercial | 5,937 | 6,694 | 7,712 | 2.9 | 39.8 | 43.7 | 46.9 |
| Industrial | 2,301 | 1,529 | 1,361 | -5.7 | 15.4 | 10.0 | 8.3 |
| Other | 1,206 | 1,184 | 1,181 | -2 | 8.1 | 7.7 | 7.2 |
| Total | 14,935 | 15,331 | 16,449 | 1.1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 14.18 | 14.71 | 14.06 | -.1 | NA | NA | NA |
| Commercial | 12.74 | 12.65 | 12.98 | .2 | NA | NA | NA |
| Industrial | 7.42 | 5.89 | 5.51 | -3.2 | NA | NA | NA |
| Other | 9.94 | 9.56 | 8.92 | -1.2 | NA | NA | NA |
| Total | 11.63 | 11.66 | 11.63 | * | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| New York | | | | | | |
| Number of Entities | 8 | 50 | 0 | 4 | 21 | 83 |
| Number of Retail Customers..... | 6,202,167 | 1,229,918 | 0 | 16,311 | 239,153 | 7,687,549 |
| Retail Sales (thousand megawatthours)..... | 87,778 | 37,642 | 0 | 167 | 15,812 | 141,399 |
| Percentage of Retail Sales..... | 62.08 | 26.62 | .00 | .12 | 11.18 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 11,770 | 3,417 | 0 | 14 | 1,247 | 16,449 |
| Percentage of Revenue | 71.55 | 20.78 | .00 | .09 | 7.58 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 13.41 | 9.08 | .00 | 8.65 | 0 | 11.63 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| North Carolina | | |
| North American Electric Reliability Council (NERC) Region(s) | | SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 26,076 | 11 |
| Utility..... | 23,478 | 7 |
| Nonutility..... | 2,598 | 20 |
| Net Generation (megawatthours) | 117,495,853 | 11 |
| Utility..... | 109,807,278 | 7 |
| Nonutility..... | 7,688,575 | 21 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 74,846 | 13 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,536 | 16 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 117,622,866 | 9 |
| Utility Retail Electricity Sales (megawatthours) | 117,622,866 | 9 |
| Direct Use (megawatthours)..... | 3,067,199 | 12 |
| Average Retail Price (cents/kWh)..... | 6.63 | 25 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. G G Allen | Petroleum, Coal | Duke Energy Corp | 1,140 |
| 8. Asheville | Petroleum, Gas, Coal | Carolina Power & Light Co | 902 |
| 9. Harris..... | Nuclear | Carolina Power & Light Co | 900 |
| 10. Rockingham Power LLC | Other | Rockingham Power LLC | 800 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|-----------|
| North Carolina | | | | | |
| A. Duke Energy Corporation | 51,921,314 | 17,361,123 | 18,525,902 | 15,811,361 | 222,928 |
| B. Carolina Power & Light Company | 33,744,582 | 12,126,670 | 10,263,026 | 10,030,190 | 1,324,696 |
| C. Virginia Electric & Power Co..... | 3,585,097 | 1,268,223 | 702,603 | 1,481,527 | 132,744 |
| D. Fayetteville Public Works Comm..... | 1,999,259 | 814,121 | 710,791 | 414,535 | 59,812 |
| E. EnergyUnited Elec Member Corp..... | 1,817,245 | 1,312,360 | 393,883 | 108,549 | 2,453 |
| Total | 93,067,497 | 32,882,497 | 30,596,205 | 27,846,162 | 1,742,633 |
| Percentage of Utility Sales..... | 79 | 71 | 81 | 88 | 81 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| North Carolina | | | | | | | |
| Coal..... | 12,500 | 12,440 | 12,440 | -0.1 | 58.6 | 54.6 | 47.7 |
| Petroleum..... | 273 | 340 | 354 | 2.9 | 1.3 | 1.5 | 1.4 |
| Natural Gas..... | 96 | 96 | 1,109 | 31.2 | .5 | .4 | 4.3 |
| Dual Fired..... | 678 | 1,854 | 3,258 | 19.1 | 3.2 | 8.1 | 12.5 |
| Nuclear..... | 4,639 | 4,639 | 4,731 | .2 | 21.7 | 20.4 | 18.1 |
| Hydroelectric..... | 1,962 | 1,554 | 1,583 | -2.4 | 9.2 | 6.8 | 6.1 |
| Other Renewables..... | 0 | 0 | 2 | .0 | .0 | .0 | .0 |
| Total Utility..... | 20,148 | 20,923 | 23,478 | 1.7 | 94.5 | 91.9 | 90.0 |
| Coal..... | 727 | 961 | 882 | 2.2 | 3.4 | 4.2 | 3.4 |
| Petroleum..... | W | W | 45 | W | W | W | .2 |
| Natural Gas..... | W | W | 47 | W | W | W | .2 |
| Dual Fired..... | 185 | 209 | 957 | 20.0 | .9 | .9 | 3.7 |
| Hydroelectric..... | W | W | 377 | W | W | W | 1.4 |
| Other Renewables..... | W | W | 253 | W | W | W | 1.0 |
| Other..... | 37 | 37 | 37 | .0 | .2 | .2 | .1 |
| Total Nonutility..... | 1,182 | 1,850 | 2,598 | 9.1 | 5.5 | 8.1 | 10.0 |
| Coal..... | 13,227 | 13,401 | 13,322 | .1 | 62.0 | 58.8 | 51.1 |
| Petroleum..... | W | W | 400 | W | W | W | 1.5 |
| Natural Gas..... | W | W | 1,156 | W | W | W | 4.4 |
| Dual Fired..... | 863 | 2,064 | 4,215 | 19.3 | 4.0 | 9.1 | 16.2 |
| Nuclear..... | 4,639 | 4,639 | 4,731 | .2 | 21.7 | 20.4 | 18.1 |
| Hydroelectric..... | W | W | 1,960 | W | W | W | 7.5 |
| Other Renewables..... | W | W | 255 | W | W | W | 1.0 |
| Other..... | 37 | 37 | 37 | .0 | .2 | .2 | .1 |
| Total Industry..... | 21,330 | 22,773 | 26,076 | 2.3 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| North Carolina | | | | | | | |
| Coal..... | 54,011,457 | 64,097,781 | 68,775,284 | 2.7 | 60.3 | 57.1 | 58.5 |
| Petroleum..... | 147,134 | 259,252 | 412,765 | 12.1 | .2 | .2 | .4 |
| Natural Gas..... | 259,441 | 194,555 | 999,515 | 16.2 | .3 | .2 | .9 |
| Nuclear..... | 22,753,813 | 33,718,182 | 37,775,025 | 5.8 | 25.4 | 30.1 | 32.2 |
| Hydroelectric..... | 5,835,462 | 4,516,820 | 1,844,689 | -12.0 | 6.5 | 4.0 | 1.6 |
| Total Utility..... | 83,007,307 | 102,786,590 | 109,807,278 | 3.2 | 92.7 | 91.6 | 93.5 |
| Coal..... | 4,262,561 | 5,233,566 | 4,182,485 | -.2 | 4.8 | 4.7 | 3.6 |
| Petroleum..... | 187,912 | 288,578 | 242,980 | 2.9 | .2 | .3 | .2 |
| Natural Gas..... | 101,867 | 275,583 | 534,840 | 20.2 | .1 | .2 | .5 |
| Other Gases..... | 0 | 0 | 990 | .0 | .0 | .0 | .0 |
| Hydroelectric..... | W | W | 751,019 | W | W | W | .6 |
| Other Renewable..... | 1,707,582 | 1,588,250 | 1,780,610 | .5 | 1.9 | 1.4 | 1.5 |
| Other..... | W | W | 195,652 | W | W | W | .2 |
| Total Nonutility..... | 6,527,946 | 9,411,150 | 7,688,575 | 1.8 | 7.3 | 8.4 | 6.5 |
| Coal..... | 58,274,018 | 69,331,347 | 72,957,769 | 2.5 | 65.1 | 61.8 | 62.1 |
| Petroleum..... | 335,046 | 547,830 | 655,745 | 7.7 | .4 | .5 | .6 |
| Natural Gas..... | 361,308 | 470,138 | 1,534,355 | 17.4 | .4 | .4 | 1.3 |
| Other Gases..... | 0 | 0 | 990 | .0 | .0 | .0 | .0 |
| Nuclear..... | 22,753,813 | 33,718,182 | 37,775,025 | 5.8 | 25.4 | 30.1 | 32.2 |
| Hydroelectric..... | W | W | 2,595,708 | W | W | W | 2.2 |
| Other Renewable..... | 1,707,582 | 1,588,250 | 1,780,610 | .5 | 1.9 | 1.4 | 1.5 |
| Other..... | W | W | 195,652 | W | W | W | .2 |
| Total Industry..... | 89,535,253 | 112,197,740 | 117,495,853 | 3.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| North Carolina | | | | |
| Coal (2001 cents per million Btu)..... | 197.0 | 155.6 | 159.3 | -2.3 |
| Average heat value (Btu per pound)..... | 12,456 | 12,422 | 12,303 | -.1 |
| Average sulfur Content(percent)..... | .9 | .9 | .9 | -.7 |
| Petroleum (2001 cents per million Btu)..... | 503.6 | 490.8 | 584.3 | 1.7 |
| Average heat value (Btu per gallon)..... | 138,451 | 138,300 | 138,339 | .0 |
| Gas (2001 cents per million Btu)..... | 326.4 | 315.0 | 435.0 | 3.2 |
| Average heat value (Btu per cubic foot)..... | 1035.9 | 1036.3 | 1035.2 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001

(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| North Carolina | | | | |
| Sulfur Dioxide | | | | |
| Coal | 398 | 493 | NA | NA |
| Petroleum | * | 4 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 5 | 5 | NA | NA |
| Total | 403 | 503 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 208 | 298 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | 1 | 1 | NA | NA |
| Other..... | 1 | 2 | NA | NA |
| Total | 210 | 301 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 58,131 | 69,557 | 73,138 | 2.6 |
| Petroleum | 368 | 636 | 707 | 7.5 |
| Gas..... | 264 | 318 | 978 | 15.7 |
| Other..... | 15 | 14 | 23 | 4.9 |
| Total | 58,778 | 70,525 | 74,846 | 2.7 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| North Carolina | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 34,761 | 41,592 | 46,201 | 3.2 | 36.9 | 38.4 | 39.3 |
| Commercial..... | 25,142 | 30,662 | 37,744 | 4.6 | 26.7 | 28.3 | 32.1 |
| Industrial | 32,522 | 34,142 | 31,527 | -3 | 34.5 | 31.5 | 26.8 |
| Other | 1,770 | 1,901 | 2,151 | 2.2 | 1.9 | 1.8 | 1.8 |
| Total | 94,195 | 108,296 | 117,623 | 2.5 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 3,217 | 3,508 | 3,750 | 1.7 | 45.4 | 47.3 | 48.0 |
| Commercial..... | 1,901 | 2,052 | 2,423 | 2.7 | 26.8 | 27.7 | 31.0 |
| Industrial | 1,827 | 1,712 | 1,487 | -2.3 | 25.8 | 23.1 | 19.1 |
| Other | 143 | 140 | 144 | .1 | 2.0 | 1.9 | 1.8 |
| Total | 7,087 | 7,412 | 7,804 | 1.1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.25 | 8.43 | 8.12 | -1.4 | NA | NA | NA |
| Commercial..... | 7.56 | 6.69 | 6.42 | -1.8 | NA | NA | NA |
| Industrial | 5.62 | 5.01 | 4.72 | -1.9 | NA | NA | NA |
| Other | 8.06 | 7.35 | 6.68 | -2.1 | NA | NA | NA |
| Total | 7.52 | 6.84 | 6.63 | -1.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| North Carolina | | | | | | |
| Number of Entities | 3 | 76 | 0 | 28 | 0 | 107 |
| Number of Retail Customers..... | 2,843,274 | 550,686 | 0 | 818,320 | 0 | 4,212,280 |
| Retail Sales (thousand megawatthours)..... | 89,251 | 14,927 | 0 | 13,445 | 0 | 117,623 |
| Percentage of Retail Sales..... | 75.88 | 12.69 | .00 | 11.43 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 5,547 | 1,164 | 0 | 1,093 | 0 | 7,804 |
| Percentage of Revenue | 71.08 | 14.92 | .00 | 14.01 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.22 | 7.80 | .00 | 8.13 | 0 | 6.63 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| North Dakota | | |
| North American Electric Reliability Council (NERC) Region(s) | | MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 4,717 | 41 |
| Utility..... | 4,677 | 35 |
| Nonutility..... | 40 | 49 |
| Net Generation (megawatthours) | 30,332,072 | 40 |
| Utility..... | 30,135,733 | 33 |
| Nonutility..... | 196,339 | 47 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 35,671 | 29 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 517 | 33 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 9,809,757 | 45 |
| Utility Retail Electricity Sales (megawatthours) | 9,809,757 | 43 |
| Direct Use (megawatthours)..... | 187,382 | 39 |
| Average Retail Price (cents/kWh)..... | 5.48 | 42 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------|-----------------|------------------------------|---------------------|
| North Dakota | | | |
| 1. Coal Creek | Petroleum, Coal | Great River Energy | 1,095 |
| 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 | 183 |
| 8. R M Heskett..... | Gas, Coal | MDU Resources Group Inc | 104 |
| 9. Jamestown..... | Petroleum | Otter Tail Power Co | 43 |
| 10. Hillsboro..... | Petroleum | Minnkota Power Coop Inc | 13 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|---------|
| North Dakota | | | | | |
| A. Northern States Power Company..... | 1,984,089 | 700,199 | 966,034 | 293,034 | 24,822 |
| B. Otter Tail Power Company | 1,445,623 | 512,687 | 572,109 | 331,031 | 29,796 |
| C. MDU Resources Group, Inc..... | 1,285,015 | 488,397 | 607,864 | 130,020 | 58,734 |
| D. Basin Electric Power Coop | 904,831 | 0 | 0 | 904,831 | 0 |
| E. Nodak Electric Coop, Inc | 650,714 | 311,478 | 98,001 | 168,232 | 73,003 |
| Total | 6,270,272 | 2,012,761 | 2,244,008 | 1,827,148 | 186,355 |
| Percentage of Utility Sales..... | 64 | 58 | 73 | 66 | 37 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| North Dakota | | | | | | | |
| Coal..... | 3,856 | 3,585 | 4,107 | 0.7 | 85.6 | 84.5 | 87.1 |
| Petroleum..... | 65 | 68 | 64 | -.3 | 1.5 | 1.6 | 1.4 |
| Natural Gas..... | 10 | 10 | 10 | -.5 | .2 | .2 | .2 |
| Hydroelectric..... | 545 | 545 | 497 | -1.0 | 12.1 | 12.8 | 10.5 |
| Total Utility..... | 4,476 | 4,207 | 4,677 | .5 | 99.4 | 99.2 | 99.2 |
| Coal..... | W | W | 21 | W | W | W | .5 |
| Natural Gas..... | W | W | 0 | W | W | W | .0 |
| Other Gases..... | W | W | 8 | W | W | W | .2 |
| Other Renewables..... | W | W | 10 | W | W | W | .2 |
| Total Nonutility..... | 29 | 35 | 40 | 3.7 | .6 | .8 | .8 |
| Coal..... | W | W | 4,128 | W | W | W | 87.5 |
| Petroleum..... | 65 | 68 | 64 | -.3 | 1.5 | 1.6 | 1.4 |
| Natural Gas..... | W | W | 10 | W | W | W | .2 |
| Other Gases..... | W | W | 8 | W | W | W | .2 |
| Hydroelectric..... | 545 | 545 | 497 | -1.0 | 12.1 | 12.8 | 10.5 |
| Other Renewables..... | W | W | 10 | W | W | W | .2 |
| Total Industry..... | 4,505 | 4,242 | 4,717 | .5 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| North Dakota | | | | | | | |
| Coal..... | 26,864,520 | 27,529,906 | 28,769,721 | 0.8 | 93.4 | 89.1 | 94.8 |
| Petroleum..... | 28,951 | 88,834 | 33,850 | 1.8 | .1 | .3 | .1 |
| Natural Gas..... | -2 | 99 | 86 | 0 | .0 | .0 | .0 |
| Hydroelectric..... | 1,698,854 | 3,150,873 | 1,332,076 | -2.7 | 5.9 | 10.2 | 4.4 |
| Total Utility..... | 28,592,323 | 30,769,712 | 30,135,733 | .6 | 99.4 | 99.6 | 99.4 |
| Coal..... | 96,307 | 73,490 | 107,454 | 1.2 | .3 | .2 | .4 |
| Petroleum..... | W | W | 14,036 | W | W | W | .0 |
| Natural Gas..... | W | W | 2,450 | W | W | W | .0 |
| Other Gases..... | W | W | 64,734 | W | W | W | .2 |
| Other Renewable..... | W | W | 7,665 | W | W | W | .0 |
| Total Nonutility..... | 174,574 | 138,778 | 196,339 | 1.3 | .6 | .4 | .6 |
| Coal..... | 26,960,827 | 27,603,396 | 28,877,175 | .8 | 93.7 | 89.3 | 95.2 |
| Petroleum..... | W | W | 47,886 | W | W | W | .2 |
| Natural Gas..... | W | W | 2,536 | W | W | W | .0 |
| Other Gases..... | W | W | 64,734 | W | W | W | .2 |
| Hydroelectric..... | 1,698,854 | 3,150,873 | 1,332,076 | -2.7 | 5.9 | 10.2 | 4.4 |
| Other Renewable..... | W | W | 7,665 | W | W | W | .0 |
| Total Industry..... | 28,766,897 | 30,908,490 | 30,332,072 | .6 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| North Dakota | | | | |
| Coal (2001 cents per million Btu) | 82.3 | 77.2 | 74.1 | -1.1 |
| Average heat value (Btu per pound) | 6,558 | 6,597 | 6,570 | * |
| Average sulfur Content(percent) | .9 | .7 | .7 | -1.8 |
| Petroleum (2001 cents per million Btu) | 522.5 | 529.5 | 638.5 | 2.3 |
| Average heat value (Btu per gallon)..... | 138,982 | 139,314 | 138,653 | * |
| Average sulfur Content(percent) | 2.5 | .0 | .0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 460.4 | 290.0 | 687.5 | 4.5 |
| Average heat value (Btu per cubic foot.....) | 1036.6 | 1058.7 | 1029.2 | -1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| North Dakota | | | | |
| Sulfur Dioxide | | | | |
| Coal | 145 | 178 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Total | 145 | 178 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 115 | 108 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 0 | 0 | NA | NA |
| Total | 115 | 109 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 33,161 | 33,953 | 35,628 | 0.8 |
| Petroleum | 50 | 95 | 42 | -1.9 |
| Gas..... | 38 | 61 | 2 | -29.5 |
| Total | 33,249 | 34,109 | 35,671 | .8 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|-------|--|-----------------------|-----------------------|-----------------------|
| North Dakota | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 3,020 | 3,602 | 3,480 | 1.6 | 42.4 | 43.3 | 35.5 |
| Commercial..... | 1,752 | 2,378 | 3,071 | 6.4 | 24.6 | 28.6 | 31.3 |
| Industrial..... | 1,835 | 1,835 | 2,753 | 4.6 | 25.8 | 22.1 | 28.1 |
| Other..... | 521 | 500 | 506 | -.3 | 7.3 | 6.0 | 5.2 |
| Total..... | 7,128 | 8,314 | 9,810 | 3.6 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 218 | 234 | 225 | .4 | 46.2 | 47.5 | 41.9 |
| Commercial..... | 130 | 151 | 184 | 4.0 | 27.4 | 30.7 | 34.2 |
| Industrial..... | 102 | 85 | 110 | .8 | 21.6 | 17.3 | 20.4 |
| Other..... | 23 | 22 | 19 | -1.9 | 4.8 | 4.4 | 3.6 |
| Total..... | 472 | 492 | 538 | 1.5 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.22 | 6.49 | 6.47 | -1.2 | NA | NA | NA |
| Commercial..... | 7.39 | 6.36 | 5.99 | -2.3 | NA | NA | NA |
| Industrial..... | 5.55 | 4.65 | 3.98 | -3.6 | NA | NA | NA |
| Other..... | 4.39 | 4.34 | 3.79 | -1.6 | NA | NA | NA |
| Total..... | 6.63 | 5.92 | 5.48 | -2.1 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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 | 229,367 | 0 | 117,201 | 0 | 346,568 |
| Retail Sales (thousand megawatthours)..... | 0 | 5,428 | 0 | 4,381 | 0 | 9,810 |
| Percentage of Retail Sales..... | .00 | 55.34 | .00 | 44.66 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 0 | 310 | 0 | 228 | 0 | 538 |
| Percentage of Revenue..... | .00 | 57.64 | .00 | 42.36 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars)..... | .00 | 5.71 | .00 | 5.20 | 0 | 5.48 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Ohio | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 29,554 | 7 |
| Utility..... | 27,081 | 3 |
| Nonutility..... | 2,472 | 23 |
| Net Generation (megawatthours) | 142,261,810 | 7 |
| Utility..... | 135,484,174 | 3 |
| Nonutility..... | 6,777,636 | 24 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 127,940 | 3 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,124 | 7 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 154,458,595 | 4 |
| Utility Retail Electricity Sales (megawatthours) | 144,252,493 | 4 |
| ESP Retail Electricity Sales (megawatthours)..... | 10,206,102 | 5 |
| Direct Use (megawatthours)..... | 1,526,371 | 22 |
| Average Retail Price (cents/kWh)..... | 6.65 | 24 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|---------------------------|-----------------|------------------------------|---------------------|
| Ohio | | | |
| 1. Gen J 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 | 1,323 |
| 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 Illum Co | 1,246 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|-----------|
| Ohio | | | | | |
| A. Ohio Power Company | 26,876,058 | 6,819,519 | 5,316,928 | 14,652,982 | 86,629 |
| B. Ohio Edison Company..... | 21,192,510 | 7,530,428 | 5,806,185 | 7,709,639 | 146,258 |
| C. Cincinnati Gas & Electric Co | 19,342,127 | 6,648,463 | 5,424,760 | 5,928,469 | 1,340,435 |
| D. Columbus Southern Power Co..... | 16,897,514 | 6,339,933 | 7,151,046 | 2,941,412 | 465,123 |
| E. Cleveland Electric Illum Co | 16,464,624 | 4,142,499 | 4,042,065 | 8,120,353 | 159,707 |
| Total | 100,772,833 | 31,480,842 | 27,740,984 | 39,352,855 | 2,198,152 |
| Percentage of Utility Sales..... | 65 | 67 | 70 | 62 | 58 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Ohio | | | | | | | |
| Coal..... | 23,060 | 23,033 | 21,675 | -0.7 | 84.0 | 83.4 | 73.3 |
| Petroleum..... | 870 | 800 | 985 | 1.4 | 3.2 | 2.9 | 3.3 |
| Natural Gas..... | 424 | 596 | 943 | 9.3 | 1.5 | 2.2 | 3.2 |
| Dual Fired..... | 516 | 600 | 1,114 | 8.9 | 1.9 | 2.2 | 3.8 |
| Nuclear..... | 2,046 | 2,042 | 2,111 | .3 | 7.5 | 7.4 | 7.1 |
| Hydroelectric..... | 125 | 117 | 163 | 3.0 | .5 | .4 | .6 |
| Other Renewables..... | 90 | 90 | 90 | .0 | .3 | .3 | .3 |
| Total Utility..... | 27,130 | 27,278 | 27,081 | .0 | 98.8 | 98.8 | 91.6 |
| Coal..... | 183 | 198 | 1,099 | 22.0 | .7 | .7 | 3.7 |
| Petroleum..... | W | W | 49 | W | W | W | .2 |
| Natural Gas..... | W | W | 751 | W | W | W | 2.5 |
| Other Gases..... | 73 | 63 | 84 | 1.5 | .3 | .2 | .3 |
| Dual Fired..... | 41 | 17 | 472 | 31.3 | .1 | .1 | 1.6 |
| Hydroelectric..... | W | W | 0 | W | W | W | .0 |
| Other Renewables..... | W | W | 17 | W | W | W | .1 |
| Total Nonutility..... | 333 | 335 | 2,472 | 25.0 | 1.2 | 1.2 | 8.4 |
| Coal..... | 23,243 | 23,231 | 22,774 | -.2 | 84.6 | 84.1 | 77.1 |
| Petroleum..... | W | W | 1,034 | W | W | W | 3.5 |
| Natural Gas..... | W | W | 1,694 | W | W | W | 5.7 |
| Other Gases..... | 73 | 63 | 84 | 1.5 | .3 | .2 | .3 |
| Dual Fired..... | 557 | 617 | 1,586 | 12.3 | 2.0 | 2.2 | 5.4 |
| Nuclear..... | 2,046 | 2,042 | 2,111 | .3 | 7.5 | 7.4 | 7.1 |
| Hydroelectric..... | W | W | 163 | W | W | W | .6 |
| Other Renewables..... | W | W | 107 | W | W | W | .4 |
| Total Industry..... | 27,463 | 27,613 | 29,553 | .8 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Ohio | | | | | | | |
| Coal..... | 120,529,191 | 128,125,332 | 118,766,821 | -0.2 | 87.6 | 88.7 | 83.5 |
| Petroleum..... | 195,228 | 267,240 | 406,434 | 8.5 | .1 | .2 | .3 |
| Natural Gas..... | 212,669 | 195,917 | 336,372 | 5.2 | .2 | .1 | .2 |
| Nuclear..... | 14,805,499 | 13,919,390 | 15,463,762 | .5 | 10.8 | 9.6 | 10.9 |
| Hydroelectric..... | 244,352 | 392,474 | 510,785 | 8.5 | .2 | .3 | .4 |
| Other Renewable..... | 309,613 | 0 | 0 | -100.0 | .2 | .0 | .0 |
| Total Utility..... | 136,296,552 | 142,900,353 | 135,484,174 | -.1 | 99.0 | 98.9 | 95.2 |
| Coal..... | 720,755 | 515,610 | 5,446,416 | 25.2 | .5 | .4 | 3.8 |
| Petroleum..... | 62,894 | 36,633 | 10,268 | -18.2 | .0 | .0 | .0 |
| Natural Gas..... | 127,567 | 214,353 | 588,045 | 18.5 | .1 | .1 | .4 |
| Other Gases..... | 73,545 | 176,515 | 301,947 | 17.0 | .1 | .1 | .2 |
| Hydroelectric..... | 8,813 | 4,880 | 0 | -100.0 | .0 | .0 | .0 |
| Other Renewable..... | 371,600 | 588,871 | 430,961 | 1.7 | .3 | .4 | .3 |
| Total Nonutility..... | 1,365,174 | 1,536,862 | 6,777,636 | 19.5 | 1.0 | 1.1 | 4.8 |
| Coal..... | 121,249,946 | 128,640,942 | 124,213,237 | .3 | 88.1 | 89.1 | 87.3 |
| Petroleum..... | 258,122 | 303,873 | 416,702 | 5.5 | .2 | .2 | .3 |
| Natural Gas..... | 340,236 | 410,270 | 924,417 | 11.7 | .2 | .3 | .6 |
| Other Gases..... | 73,545 | 176,515 | 301,947 | 17.0 | .1 | .1 | .2 |
| Nuclear..... | 14,805,499 | 13,919,390 | 15,463,762 | .5 | 10.8 | 9.6 | 10.9 |
| Hydroelectric..... | 253,165 | 397,354 | 510,785 | 8.1 | .2 | .3 | .4 |
| Other Renewable..... | 681,213 | 588,871 | 430,961 | -5.0 | .5 | .4 | .3 |
| Total Industry..... | 137,661,726 | 144,437,215 | 142,261,810 | .4 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Ohio | | | | |
| Coal (2001 cents per million Btu)..... | 163.9 | 140.5 | 131.0 | -2.4 |
| Average heat value (Btu per pound)..... | 11,983 | 12,056 | 11,823 | -.1 |
| Average sulfur Content(percent)..... | 2.6 | 2.1 | 2.1 | -2.4 |
| Petroleum (2001 cents per million Btu)..... | 266.0 | 364.0 | 600.9 | 9.5 |
| Average heat value (Btu per gallon)..... | 426,444 | 355,668 | 139,451 | -11.7 |
| Average sulfur Content(percent)..... | 3.6 | 2.1 | .0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 255.5 | 351.1 | 797.2 | 13.5 |
| Average heat value (Btu per cubic foot)..... | 1032.9 | 1027.7 | 1024.8 | -.1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|---------|---------|---------|--|
| Ohio | | | | |
| Sulfur Dioxide | | | | |
| Coal | 2,168 | 1,506 | NA | NA |
| Petroleum | 1 | 2 | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 1 | 4 | NA | NA |
| Total | 2,170 | 1,512 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 529 | 584 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 2 | 3 | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 533 | 588 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 122,376 | 131,346 | 126,703 | 0.4 |
| Petroleum | 316 | 320 | 373 | 1.9 |
| Gas | 307 | 421 | 864 | 12.2 |
| Other | 11 | 2 | 0 | -100.0 |
| Total | 123,010 | 132,089 | 127,940 | .4 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| Ohio | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 39,141 | 44,573 | 47,331 | 2.1 | 27.0 | 28.1 | 30.6 |
| Commercial | 31,818 | 36,034 | 39,507 | 2.4 | 21.9 | 22.7 | 25.6 |
| Industrial | 69,674 | 73,394 | 63,802 | -1.0 | 48.0 | 46.3 | 41.3 |
| Other | 4,383 | 4,585 | 3,818 | -1.5 | 3.0 | 2.9 | 2.5 |
| Total | 145,016 | 158,587 | 154,459 | .7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 3,678 | 4,014 | 3,962 | .8 | 36.7 | 38.4 | 38.6 |
| Commercial | 2,749 | 2,910 | 3,338 | 2.2 | 27.4 | 27.8 | 32.5 |
| Industrial | 3,291 | 3,234 | 2,746 | -2.0 | 32.8 | 30.9 | 26.7 |
| Other | 311 | 301 | 228 | -3.4 | 3.1 | 2.9 | 2.2 |
| Total | 10,029 | 10,459 | 10,274 | .3 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 9.40 | 9.00 | 8.37 | -1.3 | NA | NA | NA |
| Commercial | 8.64 | 8.08 | 8.45 | -.3 | NA | NA | NA |
| Industrial | 4.72 | 4.41 | 4.30 | -1.0 | NA | NA | NA |
| Other | 7.10 | 6.57 | 5.98 | -1.9 | NA | NA | NA |
| Total | 6.92 | 6.60 | 6.65 | -.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Ohio | | | | | | |
| Number of Entities | 9 | 87 | 0 | 23 | 10 | 129 |
| Number of Retail Customers..... | 4,410,847 | 377,511 | 0 | 334,417 | 306,148 | 5,428,923 |
| Retail Sales (thousand megawatthours)..... | 128,789 | 9,126 | 0 | 6,338 | 10,206 | 154,459 |
| Percentage of Retail Sales..... | 83.38 | 5.91 | .00 | 4.10 | 6.61 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 8,903 | 630 | 0 | 427 | 315 | 10,274 |
| Percentage of Revenue | 86.65 | 6.13 | .00 | 4.16 | 3.06 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.91 | 6.90 | .00 | 6.74 | 0 | 6.65 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Oklahoma | | |
| North American Electric Reliability Council (NERC) Region(s) | | SPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 14,941 | 23 |
| Utility..... | 13,435 | 18 |
| Nonutility..... | 1,505 | 28 |
| Net Generation (megawatthours) | 55,249,448 | 24 |
| Utility..... | 50,413,729 | 20 |
| Nonutility..... | 4,835,719 | 30 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 49,686 | 21 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 723 | 29 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 49,666,725 | 26 |
| Utility Retail Electricity Sales (megawatthours) | 49,666,725 | 25 |
| Direct Use (megawatthours)..... | 1,270,816 | 24 |
| Average Retail Price (cents/kWh)..... | 6.10 | 33 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------|----------------------|-------------------------------|---------------------|
| Oklahoma | | | |
| 1. Muskogee | Gas, Coal | Oklahoma Gas & Electric Co | 1,690 |
| 2. Northeastern..... | Petroleum, Gas, Coal | Public Service Co of Oklahoma | 1,547 |
| 3. Seminole..... | Petroleum, Gas | Oklahoma Gas & Electric Co | 1,518 |
| 4. Sooner | Petroleum, Coal | Oklahoma Gas & Electric Co | 1,012 |
| 5. GRDA | Petroleum, Gas, Coal | Grand River Dam Authority | 1,010 |
| 6. Riverside | Petroleum, Gas | Public Service Co of Oklahoma | 920 |
| 7. Horseshoe Lake | Petroleum, Gas | Oklahoma Gas & Electric Co | 807 |
| 8. Mustang..... | Gas | Oklahoma Gas & Electric Co | 548 |
| 9. Chouteau | Gas | Associated Electric Coop Inc | 495 |
| 10. Southwestern | Petroleum, Gas | Public Service Co of Oklahoma | 474 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|-----------|
| Oklahoma | | | | | |
| A. Oklahoma Gas & Electric Co | 20,384,734 | 7,304,592 | 5,058,889 | 5,534,525 | 2,486,728 |
| B. Public Service Co of Oklahoma..... | 16,805,942 | 5,784,816 | 5,558,653 | 5,194,336 | 268,137 |
| C. Oklahoma Electric Coop, Inc | 756,386 | 519,950 | 193,360 | 42,575 | 501 |
| D. Edmond Electric Department | 669,773 | 376,177 | 71,856 | 136,685 | 85,055 |
| E. Grand River Dam Authority | 617,223 | 0 | 48,893 | 568,330 | 0 |
| Total | 39,234,058 | 13,985,535 | 10,931,651 | 11,476,451 | 2,840,421 |
| Percentage of Utility Sales..... | 79 | 71 | 81 | 86 | 96 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Oklahoma | | | | | | | |
| Coal..... | 4,874 | 4,848 | 4,856 | 0.0 | 35.6 | 35.0 | 32.5 |
| Petroleum..... | 30 | 30 | 29 | -.5 | .2 | .2 | .2 |
| Natural Gas..... | 851 | 961 | 1,422 | 5.9 | 6.2 | 6.9 | 9.5 |
| Other Gases..... | 52 | 52 | 57 | .9 | .4 | .4 | .4 |
| Dual Fired..... | 6,065 | 6,079 | 6,019 | -.1 | 44.4 | 43.9 | 40.3 |
| Hydroelectric..... | 1,009 | 1,121 | 1,053 | .5 | 7.4 | 8.1 | 7.0 |
| Total Utility..... | 12,881 | 13,091 | 13,436 | .5 | 94.2 | 94.4 | 89.9 |
| Coal..... | W | W | 391 | W | W | W | 2.6 |
| Petroleum..... | 0 | 0 | 2 | .0 | .0 | .0 | .0 |
| Natural Gas..... | 257 | 235 | 1,017 | 16.5 | 1.9 | 1.7 | 6.8 |
| Other Gases..... | 21 | 17 | 17 | -2.6 | .2 | .1 | .1 |
| Dual Fired..... | W | W | 3 | W | W | W | .0 |
| Other Renewables..... | W | W | 75 | W | W | W | .5 |
| Total Nonutility..... | 792 | 772 | 1,505 | 7.4 | 5.8 | 5.6 | 10.1 |
| Coal..... | W | W | 5,247 | W | W | W | 35.1 |
| Petroleum..... | 30 | 30 | 30 | .2 | .2 | .2 | .2 |
| Natural Gas..... | 1,108 | 1,196 | 2,440 | 9.2 | 8.1 | 8.6 | 16.3 |
| Other Gases..... | 73 | 69 | 74 | .0 | .5 | .5 | .5 |
| Dual Fired..... | W | W | 6,022 | W | W | W | 40.3 |
| Hydroelectric..... | 1,009 | 1,121 | 1,053 | .5 | 7.4 | 8.1 | 7.0 |
| Other Renewables..... | W | W | 75 | W | W | W | .5 |
| Total Industry..... | 13,673 | 13,863 | 14,941 | 1.0 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Oklahoma | | | | | | | |
| Coal..... | 27,666,494 | 31,876,730 | 32,164,601 | 1.7 | 55.3 | 61.5 | 58.2 |
| Petroleum..... | 15,180 | 124,951 | 146,375 | 28.6 | .0 | .2 | .3 |
| Natural Gas..... | 15,051,380 | 13,464,787 | 15,886,542 | .6 | 30.1 | 26.0 | 28.8 |
| Hydroelectric..... | 3,209,837 | 2,078,181 | 2,216,211 | -4.0 | 6.4 | 4.0 | 4.0 |
| Total Utility..... | 45,942,891 | 47,544,649 | 50,413,729 | 1.0 | 91.9 | 91.7 | 91.2 |
| Coal..... | W | W | 2,451,166 | W | W | W | 4.4 |
| Petroleum..... | W | W | 28,800 | W | W | W | .1 |
| Natural Gas..... | 1,368,063 | 1,206,899 | 2,057,266 | 4.6 | 2.7 | 2.3 | 3.7 |
| Other Gases..... | 72,380 | 60,423 | 67,792 | -.7 | .1 | .1 | .1 |
| Other Renewable..... | 249,315 | 244,593 | 230,696 | -.9 | .5 | .5 | .4 |
| Total Nonutility..... | 4,063,558 | 4,304,972 | 4,835,719 | 2.0 | 8.1 | 8.3 | 8.8 |
| Coal..... | W | W | 34,615,767 | W | W | W | 62.7 |
| Petroleum..... | W | W | 175,175 | W | W | W | .3 |
| Natural Gas..... | 16,419,443 | 14,671,686 | 17,943,808 | 1.0 | 32.8 | 28.3 | 32.5 |
| Other Gases..... | 72,380 | 60,423 | 67,792 | -.7 | .1 | .1 | .1 |
| Hydroelectric..... | 3,209,837 | 2,078,181 | 2,216,211 | -4.0 | 6.4 | 4.0 | 4.0 |
| Other Renewable..... | 249,315 | 244,593 | 230,696 | -.9 | .5 | .5 | .4 |
| Total Industry..... | 50,006,449 | 51,849,621 | 55,249,448 | 1.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Oklahoma | | | | |
| Coal (2001 cents per million Btu) | 140.8 | 102.3 | 90.6 | -4.8 |
| Average heat value (Btu per pound) | 8,700 | 8,600 | 8,695 | .0 |
| Average sulfur Content(percent) | .4 | .3 | .3 | -3.8 |
| Petroleum (2001 cents per million Btu) | 497.3 | 426.3 | 633.0 | 2.7 |
| Average heat value (Btu per gallon)..... | 138,443 | 139,661 | 140,496 | .2 |
| Gas (2001 cents per million Btu)..... | 351.8 | 304.1 | 448.2 | 2.7 |
| Average heat value (Btu per cubic foot.....) | 1037.4 | 1027.9 | 1030.7 | -.1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Oklahoma | | | | |
| Sulfur Dioxide | | | | |
| Coal | 116 | 117 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 1 | * | NA | NA |
| Total | 116 | 118 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 121 | 83 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 20 | 20 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 141 | 103 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 33,302 | 38,262 | 38,715 | 1.7 |
| Petroleum | 60 | 124 | 152 | 11.0 |
| Gas..... | 9,734 | 8,905 | 10,819 | 1.2 |
| Other..... | * | * | 0 | -100.0 |
| Total | 43,096 | 47,291 | 49,686 | 1.6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Oklahoma | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 14,254 | 17,303 | 19,796 | 3.7 | 37.3 | 40.0 | 39.9 |
| Commercial..... | 10,338 | 11,553 | 13,552 | 3.0 | 27.0 | 26.7 | 27.3 |
| Industrial..... | 11,599 | 12,160 | 13,356 | 1.6 | 30.3 | 28.1 | 26.9 |
| Other..... | 2,076 | 2,276 | 2,963 | 4.0 | 5.4 | 5.3 | 6.0 |
| Total..... | 38,267 | 43,291 | 49,667 | 2.9 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,166 | 1,216 | 1,439 | 2.4 | 46.1 | 48.2 | 47.4 |
| Commercial..... | 720 | 702 | 861 | 2.0 | 28.4 | 27.9 | 28.4 |
| Industrial..... | 511 | 481 | 573 | 1.3 | 20.2 | 19.1 | 18.9 |
| Other..... | 134 | 121 | 160 | 1.9 | 5.3 | 4.8 | 5.3 |
| Total..... | 2,532 | 2,520 | 3,032 | 2.0 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.18 | 7.03 | 7.27 | -1.3 | NA | NA | NA |
| Commercial..... | 6.96 | 6.08 | 6.35 | -1.0 | NA | NA | NA |
| Industrial..... | 4.41 | 3.96 | 4.29 | -.3 | NA | NA | NA |
| Other..... | 6.47 | 5.32 | 5.39 | -2.0 | NA | NA | NA |
| Total..... | 6.62 | 5.82 | 6.10 | -9 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Oklahoma | | | | | | |
| Number of Entities..... | 1 | 71 | 0 | 24 | 0 | 96 |
| Number of Retail Customers..... | 499,968 | 873,351 | 0 | 383,940 | 0 | 1,757,259 |
| Retail Sales (thousand megawatthours)..... | 16,806 | 25,942 | 0 | 6,919 | 0 | 49,667 |
| Percentage of Retail Sales..... | 33.84 | 52.23 | .00 | 13.93 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 915 | 1,598 | 0 | 519 | 0 | 3,032 |
| Percentage of Revenue..... | 30.17 | 52.70 | .00 | 17.13 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.44 | 6.16 | .00 | 7.51 | 0 | 6.10 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Oregon | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Hydro |
| Net Summer Capability (megawatts)..... | 11,769 | 27 |
| Utility..... | 10,354 | 21 |
| Nonutility..... | 1,416 | 32 |
| Net Generation (megawatthours) | 45,051,910 | 30 |
| Utility..... | 38,059,649 | 29 |
| Nonutility..... | 6,992,261 | 23 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 9,857 | 41 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 103 | 47 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 45,884,830 | 27 |
| Utility Retail Electricity Sales (megawatthours) | 45,884,830 | 27 |
| Direct Use (megawatthours)..... | 478,361 | 30 |
| Average Retail Price (cents/kWh)..... | 5.44 | 43 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Boardman | Petroleum, Coal | Portland General Electric Co | 557 |
| 6. Beaver | Petroleum, Gas | Portland General Electric Co | 493 |
| 7. Klamath Cogen | Other | Pacific Klamath Energy Inc | 470 |
| 8. Hermiston..... | Other | Hermiston Geng Co | 464 |
| 9. Hells Canyon | Hydro | Idaho Power Co | 361 |
| 10. Round Butte | Hydro | Portland General Electric Co | 300 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| Oregon | | | | | |
| A. Portland General Electric Co | 19,040,188 | 7,080,228 | 7,180,414 | 4,675,138 | 104,408 |
| B. PacifiCorp..... | 13,346,548 | 4,961,181 | 4,406,128 | 3,928,226 | 51,013 |
| C. City of Eugene..... | 2,671,516 | 980,424 | 922,064 | 760,347 | 8,681 |
| D. Central Lincoln People's Ut Dt | 1,154,607 | 404,369 | 202,084 | 544,405 | 3,749 |
| E. City of McMinnville | 823,146 | 188,626 | 172,137 | 460,744 | 1,639 |
| Total | 37,036,005 | 13,614,828 | 12,882,827 | 10,368,860 | 169,490 |
| Percentage of Utility Sales..... | 81 | 78 | 87 | 79 | 35 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Oregon | | | | | | | |
| Coal..... | 508 | 508 | 557 | 1.0 | 4.4 | 4.5 | 4.7 |
| Petroleum..... | 6 | 0 | 0 | -100.0 | .1 | .0 | .0 |
| Natural Gas..... | 148 | 354 | 211 | 4.0 | 1.3 | 3.1 | 1.8 |
| Dual Fired..... | 448 | 598 | 518 | 1.6 | 3.9 | 5.2 | 4.4 |
| Nuclear..... | 1,104 | 0 | 0 | -100.0 | 9.6 | .0 | .0 |
| Hydroelectric..... | 9,011 | 9,029 | 9,063 | .1 | 78.0 | 79.1 | 77.0 |
| Other Renewables..... | 11 | 38 | 6 | -7.7 | .1 | .3 | .0 |
| Total Utility..... | 11,237 | 10,526 | 10,354 | -9 | 97.3 | 92.2 | 88.0 |
| Coal..... | W | W | 10 | W | W | W | .1 |
| Natural Gas..... | W | W | 1,018 | W | W | W | 8.6 |
| Dual Fired..... | W | W | 3 | W | W | W | .0 |
| Hydroelectric..... | 102 | 109 | 55 | -6.7 | .9 | 1.0 | .5 |
| Other Renewables..... | W | W | 329 | W | W | W | 2.8 |
| Total Nonutility..... | 309 | 885 | 1,415 | 18.4 | 2.7 | 7.8 | 12.0 |
| Coal..... | W | W | 567 | W | W | W | 4.8 |
| Petroleum..... | 6 | 0 | 0 | -100.0 | .1 | .0 | .0 |
| Natural Gas..... | W | W | 1,229 | W | W | W | 10.4 |
| Dual Fired..... | W | W | 521 | W | W | W | 4.4 |
| Nuclear..... | 1,104 | 0 | 0 | -100.0 | 9.6 | .0 | .0 |
| Hydroelectric..... | 9,114 | 9,138 | 9,118 | .0 | 78.9 | 80.1 | 77.5 |
| Other Renewables..... | W | W | 335 | W | W | W | 2.8 |
| Total Industry..... | 11,546 | 11,412 | 11,769 | .2 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Oregon | | | | | | | |
| Coal..... | 3,682,715 | 1,727,583 | 4,423,843 | 2.1 | 8.7 | 3.4 | 9.8 |
| Petroleum..... | 9,212 | 6,631 | 92,767 | 29.3 | .0 | .0 | .2 |
| Natural Gas..... | 1,474,449 | 1,636,828 | 5,183,521 | 15.0 | 3.5 | 3.2 | 11.5 |
| Nuclear..... | 4,572,587 | 0 | 0 | -100.0 | 10.8 | .0 | .0 |
| Hydroelectric..... | 31,475,583 | 44,512,871 | 28,359,518 | -1.2 | 74.3 | 87.3 | 62.9 |
| Other Renewable..... | 5,797 | 0 | 0 | -100.0 | .0 | .0 | .0 |
| Total Utility..... | 41,220,343 | 47,883,913 | 38,059,649 | -9 | 97.3 | 93.9 | 84.5 |
| Coal..... | W | W | 21,210 | W | W | W | .0 |
| Petroleum..... | W | W | 9,456 | W | W | W | .0 |
| Natural Gas..... | 53,462 | 2,173,899 | 5,799,442 | 68.3 | .1 | 4.3 | 12.9 |
| Hydroelectric..... | 242,952 | 393,587 | 285,038 | 1.8 | .6 | .8 | .6 |
| Other Renewable..... | 807,808 | 541,458 | 877,115 | .9 | 1.9 | 1.1 | 1.9 |
| Total Nonutility..... | 1,125,031 | 3,127,860 | 6,992,261 | 22.5 | 2.7 | 6.1 | 15.5 |
| Coal..... | W | W | 4,445,053 | W | W | W | 9.9 |
| Petroleum..... | W | W | 102,223 | W | W | W | .2 |
| Natural Gas..... | 1,527,911 | 3,810,727 | 10,982,963 | 24.5 | 3.6 | 7.5 | 24.4 |
| Nuclear..... | 4,572,587 | 0 | 0 | -100.0 | 10.8 | .0 | .0 |
| Hydroelectric..... | 31,718,535 | 44,906,458 | 28,644,556 | -1.1 | 74.9 | 88.0 | 63.6 |
| Other Renewable..... | 813,605 | 541,458 | 877,115 | .8 | 1.9 | 1.1 | 1.9 |
| Total Industry..... | 42,345,374 | 51,011,773 | 45,051,910 | .7 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|--------|---------|--|
| Oregon | | | | |
| Coal (2001 cents per million Btu) | 125.7 | 112.2 | 111.0 | -1.4 |
| Average heat value (Btu per pound) | 9,642 | 8,782 | 8,706 | -1.1 |
| Average sulfur Content(percent) | .4 | .3 | .4 | -.7 |
| Petroleum (2001 cents per million Btu) | 512.8 | .0 | 636.2 | 2.4 |
| Average heat value (Btu per gallon)..... | 140,171 | 0 | 140,000 | * |
| Gas (2001 cents per million Btu)..... | 221.1 | 138.6 | 374.9 | 6.0 |
| Average heat value (Btu per cubic foot.....) | 1011.0 | 1009.5 | 1020.0 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|-------|-------|-------|--|
| Oregon | | | | |
| Sulfur Dioxide | | | | |
| Coal | 15 | 6 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | * | 1 | NA | NA |
| Total | 15 | 7 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 16 | 3 | NA | NA |
| Petroleum | * | 0 | NA | NA |
| Gas..... | 2 | 2 | NA | NA |
| Other..... | 1 | 1 | NA | NA |
| Total | 18 | 5 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 4,134 | 1,972 | 4,612 | 1.2 |
| Petroleum | 11 | 7 | 95 | 27.0 |
| Gas..... | 899 | 1,826 | 5,128 | 21.3 |
| Other..... | 21 | 22 | 21 | * |
| Total | 5,066 | 3,827 | 9,857 | 7.7 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Oregon | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 15,202 | 17,285 | 17,503 | 1.6 | 35.4 | 36.6 | 38.1 |
| Commercial..... | 11,818 | 13,388 | 14,816 | 2.5 | 27.5 | 28.4 | 32.3 |
| Industrial..... | 15,123 | 15,804 | 13,084 | -1.6 | 35.2 | 33.5 | 28.5 |
| Other..... | 767 | 708 | 481 | -5.0 | 1.8 | 1.5 | 1.0 |
| Total..... | 42,910 | 47,185 | 45,885 | .8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 855 | 1,031 | 1,100 | 2.8 | 40.5 | 43.7 | 44.1 |
| Commercial..... | 657 | 722 | 808 | 2.3 | 31.1 | 30.6 | 32.4 |
| Industrial..... | 555 | 565 | 551 | -1 | 26.3 | 23.9 | 22.1 |
| Other..... | 44 | 43 | 35 | -2.3 | 2.1 | 1.8 | 1.4 |
| Total..... | 2,111 | 2,360 | 2,494 | 1.9 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 5.63 | 5.97 | 6.29 | 1.2 | NA | NA | NA |
| Commercial..... | 5.56 | 5.39 | 5.45 | -2 | NA | NA | NA |
| Industrial..... | 3.67 | 3.57 | 4.21 | 1.5 | NA | NA | NA |
| Other..... | 5.68 | 6.02 | 7.33 | 2.9 | NA | NA | NA |
| Total..... | 4.92 | 5.00 | 5.44 | 1.1 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|-----------|
| Oregon | | | | | | |
| Number of Entities..... | 1 | 24 | 0 | 16 | 0 | 41 |
| Number of Retail Customers..... | 733,058 | 780,681 | 0 | 174,817 | 0 | 1,688,556 |
| Retail Sales (thousand megawatthours)..... | 19,040 | 22,663 | 0 | 4,181 | 0 | 45,885 |
| Percentage of Retail Sales..... | 41.50 | 49.39 | .00 | 9.11 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 1,096 | 1,161 | 0 | 237 | 0 | 2,494 |
| Percentage of Revenue..... | 43.95 | 46.54 | .00 | 9.51 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.76 | 5.12 | .00 | 5.67 | 0 | 5.44 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|-----------|
| Pennsylvania | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR/MACC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 37,678 | 5 |
| Utility..... | 4,978 | 34 |
| Nonutility..... | 32,700 | 3 |
| Net Generation (megawatthours) | 196,576,594 | 3 |
| Utility..... | 27,633,966 | 36 |
| Nonutility..... | 168,942,628 | 1 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 119,894 | 5 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 2,603 | 10 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 137,893,545 | 6 |
| Utility Retail Electricity Sales (megawatthours) | 118,536,801 | 7 |
| ESP Retail Electricity Sales (megawatthours)..... | 19,356,744 | 2 |
| Direct Use (megawatthours)..... | -1,400,168 | 49 |
| Average Retail Price (cents/kWh)..... | 7.86 | 14 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 2,286 |
| 3. Susquehanna..... | Nuclear | PPL Susquehanna LLC | 2,201 |
| 4. Peach Bottom..... | Nuclear | Exelon Generation Co LLC | 2,186 |
| 5. Martins Creek | Other | PPL Martins Creek LLC | 1,960 |
| 6. Homer City | Other | Midwest Generations EME LLC | 1,884 |
| 7. Conemaugh | Other | Reliant Energy Mid-Atlantic PH | 1,712 |
| 8. Keystone..... | Other | Reliant Energy Mid-Atlantic PH | 1,712 |
| 9. Beaver Valley | Nuclear | Pennsylvania Power Co | 1,641 |
| 10. Hatfields Ferry | Other | Allegheny Energy Supply Co LLC | 1,619 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|-----------|
| Pennsylvania | | | | | |
| A. Pennsylvania Power & Light Co | 31,281,466 | 12,036,778 | 10,038,421 | 9,011,689 | 194,578 |
| B. PECO Energy Company..... | 27,891,141 | 8,072,915 | 5,997,571 | 12,960,295 | 860,360 |
| C. West Penn Power Company..... | 18,311,711 | 6,280,005 | 4,231,336 | 7,748,555 | 51,815 |
| D. Pennsylvania Electric Company..... | 10,882,350 | 3,867,005 | 3,857,702 | 3,117,387 | 40,256 |
| E. Duquesne Light Company | 10,854,104 | 2,362,668 | 5,334,131 | 3,095,666 | 61,639 |
| Total | 99,220,772 | 32,619,371 | 29,459,161 | 35,933,592 | 1,208,648 |
| Percentage of Utility Sales..... | 72 | 70 | 67 | 78 | 93 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Pennsylvania | | | | | | | |
| Coal..... | 17,515 | 17,463 | 2,407 | -19.8 | 49.1 | 47.9 | 6.4 |
| Petroleum..... | 4,085 | 2,489 | 0 | -100.0 | 11.4 | 6.8 | .0 |
| Natural Gas..... | 242 | 329 | 44 | -17.3 | .7 | .9 | .1 |
| Dual Fired..... | 961 | 2,597 | 7 | -41.9 | 2.7 | 7.1 | .0 |
| Nuclear..... | 8,731 | 8,956 | 1,641 | -17.0 | 24.5 | 24.6 | 4.4 |
| Hydroelectric..... | 1,912 | 1,888 | 879 | -8.3 | 5.4 | 5.2 | 2.3 |
| Total Utility..... | 33,446 | 33,723 | 4,978 | -19.1 | 93.7 | 92.5 | 13.2 |
| Coal..... | 1,140 | 1,568 | 16,171 | 34.3 | 3.2 | 4.3 | 42.9 |
| Petroleum..... | W | W | 2,274 | W | W | W | 6.0 |
| Natural Gas..... | 234 | 239 | 1,701 | 24.7 | .7 | .7 | 4.5 |
| Other Gases..... | 266 | 257 | 106 | -9.7 | .7 | .7 | .3 |
| Dual Fired..... | 264 | 265 | 3,298 | 32.4 | .7 | .7 | 8.8 |
| Nuclear..... | 0 | 0 | 7,489 | .0 | .0 | .0 | 19.9 |
| Hydroelectric..... | 85 | 85 | 1,202 | 34.2 | .2 | .2 | 3.2 |
| Other Renewables..... | 232 | 286 | 458 | 7.8 | .7 | .8 | 1.2 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 2,239 | 2,716 | 32,699 | 34.7 | 6.3 | 7.5 | 86.8 |
| Coal..... | 18,655 | 19,031 | 18,578 | .0 | 52.3 | 52.2 | 49.3 |
| Petroleum..... | W | W | 2,274 | W | W | W | 6.0 |
| Natural Gas..... | 476 | 568 | 1,745 | 15.5 | 1.3 | 1.6 | 4.6 |
| Other Gases..... | 266 | 257 | 106 | -9.7 | .7 | .7 | .3 |
| Dual Fired..... | 1,225 | 2,862 | 3,305 | 11.7 | 3.4 | 7.9 | 8.8 |
| Nuclear..... | 8,731 | 8,956 | 9,130 | .5 | 24.5 | 24.6 | 24.2 |
| Hydroelectric..... | 1,997 | 1,973 | 2,081 | .5 | 5.6 | 5.4 | 5.5 |
| Other Renewables..... | 232 | 286 | 458 | 7.8 | .7 | .8 | 1.2 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 35,685 | 36,439 | 37,678 | .6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Pennsylvania | | | | | | | |
| Coal..... | 102,198,817 | 100,857,561 | 13,863,092 | -19.9 | 57.0 | 52.6 | 7.1 |
| Petroleum..... | 2,220,932 | 3,212,502 | 21,609 | -40.2 | 1.2 | 1.7 | .0 |
| Natural Gas..... | 265,249 | 641,242 | 1,138 | -45.4 | .1 | .3 | .0 |
| Nuclear..... | 60,132,729 | 68,672,038 | 13,179,236 | -15.5 | 33.5 | 35.8 | 6.7 |
| Hydroelectric..... | 1,216,565 | 1,638,738 | 568,891 | -8.1 | .7 | .9 | .3 |
| Total Utility..... | 166,034,292 | 175,022,081 | 27,633,966 | -18.1 | 92.5 | 91.2 | 14.1 |
| Coal..... | 6,925,880 | 10,342,145 | 98,037,358 | 34.2 | 3.9 | 5.4 | 49.9 |
| Petroleum..... | 427,069 | 378,501 | 3,540,982 | 26.5 | .2 | .2 | 1.8 |
| Natural Gas..... | 2,442,586 | 2,451,860 | 3,035,160 | 2.4 | 1.4 | 1.3 | 1.5 |
| Other Gases..... | 1,011,223 | 748,213 | 613,137 | -5.4 | .6 | .4 | .3 |
| Nuclear..... | 0 | 0 | 60,551,561 | .0 | .0 | .0 | 30.8 |
| Hydroelectric..... | 442,161 | 450,822 | 465,663 | .6 | .2 | .2 | .2 |
| Other Renewable..... | 1,878,705 | 2,425,535 | 2,661,794 | 3.9 | 1.0 | 1.3 | 1.4 |
| Other..... | 243,730 | 53,468 | 36,973 | -18.9 | .1 | .0 | .0 |
| Total Nonutility..... | 13,371,353 | 16,850,544 | 168,942,628 | 32.6 | 7.5 | 8.8 | 85.9 |
| Coal..... | 109,124,697 | 111,199,706 | 111,900,450 | .3 | 60.8 | 58.0 | 56.9 |
| Petroleum..... | 2,648,001 | 3,591,003 | 3,562,591 | 3.4 | 1.5 | 1.9 | 1.8 |
| Natural Gas..... | 2,707,835 | 3,093,102 | 3,036,298 | 1.3 | 1.5 | 1.6 | 1.5 |
| Other Gases..... | 1,011,223 | 748,213 | 613,137 | -5.4 | .6 | .4 | .3 |
| Nuclear..... | 60,132,729 | 68,672,038 | 73,730,797 | 2.3 | 33.5 | 35.8 | 37.5 |
| Hydroelectric..... | 1,658,726 | 2,089,560 | 1,034,554 | -5.1 | .9 | 1.1 | .5 |
| Other Renewable..... | 1,878,705 | 2,425,535 | 2,661,794 | 3.9 | 1.0 | 1.3 | 1.4 |
| Other..... | 243,730 | 53,468 | 36,973 | -18.9 | .1 | .0 | .0 |
| Total Industry..... | 179,405,645 | 191,872,625 | 196,576,594 | 1.0 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Pennsylvania | | | | |
| Coal (2001 cents per million Btu)..... | 169.4 | 144.9 | 120.6 | -3.7 |
| Average heat value (Btu per pound)..... | 12,399 | 12,321 | 12,900 | .4 |
| Average sulfur Content(percent)..... | 2.1 | 2.1 | 2.1 | * |
| Petroleum (2001 cents per million Btu)..... | 269.1 | 302.5 | 372.9 | 3.7 |
| Average heat value (Btu per gallon)..... | 264,082 | 265,413 | 149,500 | -6.1 |
| Average sulfur Content(percent)..... | 2.0 | 2.0 | .5 | -13.8 |
| Gas (2001 cents per million Btu)..... | 339.3 | 290.3 | 851.4 | 10.8 |
| Average heat value (Btu per cubic foot)..... | 1030.5 | 1027.8 | 1042.0 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---------------------|---------|---------|---------|--|
| Pennsylvania | | | | |
| Sulfur Dioxide | | | | |
| Coal | 1,236 | 1,073 | NA | NA |
| Petroleum | 30 | 36 | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 1 | 2 | NA | NA |
| Total | 1,267 | 1,111 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 379 | 292 | NA | NA |
| Petroleum | 5 | 6 | NA | NA |
| Gas..... | 16 | 10 | NA | NA |
| Other..... | 4 | 4 | NA | NA |
| Total | 404 | 312 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 110,030 | 114,314 | 113,940 | 0.4 |
| Petroleum | 2,884 | 3,924 | 3,546 | 2.3 |
| Gas..... | 2,219 | 2,466 | 2,034 | -1.0 |
| Other..... | 252 | 348 | 375 | 4.5 |
| Total | 115,385 | 121,052 | 119,894 | .4 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| Pennsylvania | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 39,245 | 43,645 | 46,289 | 1.8 | 33.8 | 34.2 | 33.6 |
| Commercial..... | 30,779 | 35,396 | 43,954 | 4.0 | 26.5 | 27.7 | 31.9 |
| Industrial | 44,869 | 47,208 | 46,355 | .4 | 38.6 | 37.0 | 33.6 |
| Other | 1,394 | 1,375 | 1,295 | -.8 | 1.2 | 1.1 | .9 |
| Total | 116,288 | 127,623 | 137,894 | 1.9 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 4,327 | 4,450 | 4,454 | .3 | 40.6 | 41.8 | 41.1 |
| Commercial..... | 2,973 | 3,093 | 3,497 | 1.8 | 27.9 | 29.1 | 32.3 |
| Industrial | 3,181 | 2,933 | 2,731 | -1.7 | 29.8 | 27.6 | 25.2 |
| Other | 182 | 163 | 150 | -2.1 | 1.7 | 1.5 | 1.4 |
| Total | 10,663 | 10,639 | 10,832 | .2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 11.03 | 10.20 | 9.62 | -1.5 | NA | NA | NA |
| Commercial..... | 9.66 | 8.74 | 7.96 | -2.1 | NA | NA | NA |
| Industrial | 7.09 | 6.21 | 5.89 | -2.0 | NA | NA | NA |
| Other | 13.04 | 11.83 | 11.56 | -1.3 | NA | NA | NA |
| Total | 9.17 | 8.34 | 7.86 | -1.7 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|---------|---------|-------------|--------------------------|-----------|
| Pennsylvania | | | | | | |
| Number of Entities | 10 | 36 | 0 | 13 | 31 | 90 |
| Number of Retail Customers..... | 4,270,962 | 648,679 | 0 | 202,667 | 819,159 | 5,941,467 |
| Retail Sales (thousand megawatthours)..... | 104,065 | 12,263 | 0 | 2,208 | 19,357 | 137,894 |
| Percentage of Retail Sales..... | 75.47 | 8.89 | .00 | 1.60 | 14.04 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 8,799 | 949 | 0 | 226 | 858 | 10,832 |
| Percentage of Revenue | 81.24 | 8.76 | .00 | 2.08 | 7.92 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 8.46 | 7.74 | .00 | 10.22 | 0 | 7.86 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-----------|-----------|
| Rhode Island | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 1,221 | 49 |
| Utility..... | 7 | 50 |
| Nonutility..... | 1,214 | 34 |
| Net Generation (megawatthours) | 7,501,894 | 46 |
| Nonutility..... | 7,501,894 | 22 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 3,620 | 48 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,465 | 2 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 7,846,557 | 49 |
| Utility Retail Electricity Sales (megawatthours) | 6,901,292 | 48 |
| ESP Retail Electricity Sales (megawatthours)..... | 945,265 | 12 |
| Direct Use (megawatthours)..... | -34,485 | 46 |
| Average Retail Price (cents/kWh)..... | 10.79 | 7 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|---------------------------------|----------------|--------------------------------|---------------------|
| Rhode Island | | | |
| 1. Manchester St | Other | U S Gen New England Inc | 416 |
| 2. Calpine Tiverton Powe..... | Other | Calpine Eastern Corp | 239 |
| 3. Ocean State | Other | Ocean State Power Co | 219 |
| 4. Ocean State II..... | Other | Ocean State Power II | 219 |
| 5. Pawtucket Power Assoc | Other | Pawtucket Power Associates LP | 87 |
| 6. Ridgewood Providence..... | Other | Ridgewood Providence Power PLP | 15 |
| 7. Rhode Island Hospital | Other | Rhode Island Hospital | 10 |
| 8. Block Island..... | Other | Block Island Power Co | 6 |
| 9. Central..... | Other | State of Rhode Island | 5 |
| 10. Bradford Dyeing Assoc | Other | Bradford Dying Associates Inc | 2 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|--------|
| Rhode Island | | | | | |
| A. Narragansett Electric Company..... | 6,845,802 | 2,669,433 | 3,061,939 | 1,091,847 | 22,583 |
| B. NewEnergy Midwest LLC..... | 600,907 | 0 | 600,907 | 0 | 0 |
| C. TransCanada Power Market'g Ltd | 216,829 | 0 | 0 | 216,829 | 0 |
| D. Select Energy | 125,698 | 0 | 53,840 | 0 | 71,858 |
| E. Pascoag Fire District..... | 45,958 | 25,043 | 4,829 | 15,492 | 594 |
| Total | 7,835,194 | 2,694,476 | 3,721,515 | 1,324,168 | 95,035 |
| Percentage of Utility Sales..... | 100 | 100 | 100 | 100 | 99 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------|------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Rhode Island | | | | | | | |
| Petroleum..... | 27 | 20 | 6 | -15.8 | 3.9 | 2.0 | 0.5 |
| Natural Gas..... | 0 | 420 | 0 | .0 | .0 | 42.9 | .0 |
| Dual Fired..... | 128 | 0 | 0 | -100.0 | 18.7 | .0 | .0 |
| Hydroelectric..... | 1 | 1 | 1 | -.4 | .2 | .1 | .1 |
| Total Utility..... | 156 | 441 | 7 | -29.1 | 22.8 | 45.1 | .6 |
| Petroleum..... | W | W | 2 | W | W | W | .2 |
| Natural Gas..... | 0 | 0 | 415 | .0 | .0 | .0 | 34.0 |
| Dual Fired..... | 513 | 521 | 779 | 4.8 | 74.9 | 53.2 | 63.8 |
| Hydroelectric..... | W | W | 3 | W | W | W | .2 |
| Other Renewables..... | W | W | 15 | W | W | W | 1.3 |
| Total Nonutility..... | 529 | 538 | 1,214 | 9.7 | 77.2 | 54.9 | 99.4 |
| Petroleum..... | W | W | 8 | W | W | W | .6 |
| Natural Gas..... | 0 | 420 | 415 | .0 | .0 | 42.9 | 34.0 |
| Dual Fired..... | 641 | 521 | 779 | 2.2 | 93.6 | 53.2 | 63.8 |
| Hydroelectric..... | W | W | 4 | W | W | W | .3 |
| Other Renewables..... | W | W | 15 | W | W | W | 1.3 |
| Total Industry..... | 685 | 979 | 1,221 | 6.6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------------|------------------|------------------|--|-----------------------|-----------------------|-----------------------|
| Rhode Island | | | | | | | |
| Petroleum..... | 74,715 | 61,675 | 0 | -100.0 | 1.6 | 0.8 | 0.0 |
| Natural Gas..... | 34,593 | 3,239,436 | 0 | -100.0 | .7 | 42.0 | .0 |
| Total Utility..... | 109,308 | 3,301,111 | 0 | -100.0 | 2.3 | 42.8 | .0 |
| Petroleum..... | 24,203 | 75,887 | 70,003 | 12.5 | .5 | 1.0 | .9 |
| Natural Gas..... | 4,577,913 | 4,238,429 | 7,325,132 | 5.4 | 95.7 | 54.9 | 97.6 |
| Hydroelectric..... | 9,946 | 10,367 | 3,143 | -12.0 | .2 | .1 | .0 |
| Other Renewable..... | 63,834 | 94,241 | 103,616 | 5.5 | 1.3 | 1.2 | 1.4 |
| Total Nonutility..... | 4,675,896 | 4,418,924 | 7,501,894 | 5.4 | 97.7 | 57.2 | 100.0 |
| Petroleum..... | 98,918 | 137,562 | 70,003 | -3.8 | 2.1 | 1.8 | .9 |
| Natural Gas..... | 4,612,506 | 7,477,865 | 7,325,132 | 5.3 | 96.4 | 96.9 | 97.6 |
| Hydroelectric..... | 9,946 | 10,367 | 3,143 | -12.0 | .2 | .1 | .0 |
| Other Renewable..... | 63,834 | 94,241 | 103,616 | 5.5 | 1.3 | 1.2 | 1.4 |
| Total Industry..... | 4,785,204 | 7,720,035 | 7,501,894 | 5.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|------|--|
| Rhode Island | | | | |
| Petroleum (2001 cents per million Btu) | 222.6 | 501.8 | 0.0 | -100.0 |
| Average heat value (Btu per gallon) | 152,619 | 140,391 | 0 | -100.0 |
| Average sulfur Content(percent) | 1.0 | .3 | .0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 243.6 | 233.4 | .0 | -100.0 |
| Average heat value (Btu per cubic foot.....) | 1030.6 | 1028.0 | .0 | -100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---------------------|-------|-------|-------|--|
| Rhode Island | | | | |
| Sulfur Dioxide | | | | |
| Petroleum | 1 | * | NA | NA |
| Gas..... | * | * | NA | NA |
| Total | 1 | 1 | NA | NA |
| Nitrogen Oxide | | | | |
| Petroleum | * | * | NA | NA |
| Gas..... | 2 | 5 | NA | NA |
| Other..... | * | * | NA | NA |
| Total | 2 | 5 | NA | NA |
| Carbon Dioxide | | | | |
| Petroleum | 119 | 133 | 121 | 0.2 |
| Gas..... | 2,290 | 3,729 | 3,499 | 4.8 |
| Total | 2,409 | 3,862 | 3,621 | 4.6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|-------|--|-----------------------|-----------------------|-----------------------|
| Rhode Island | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 2,363 | 2,481 | 2,698 | 1.5 | 37.0 | 37.6 | 34.4 |
| Commercial..... | 2,481 | 2,607 | 3,729 | 4.6 | 38.8 | 39.5 | 47.5 |
| Industrial..... | 1,359 | 1,351 | 1,324 | -3 | 21.3 | 20.4 | 16.9 |
| Other..... | 190 | 165 | 96 | -7.3 | 3.0 | 2.5 | 1.2 |
| Total..... | 6,393 | 6,604 | 7,847 | 2.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 301 | 307 | 327 | .9 | 40.1 | 42.3 | 38.7 |
| Commercial..... | 285 | 277 | 374 | 3.1 | 37.9 | 38.2 | 44.2 |
| Industrial..... | 143 | 120 | 130 | -1.1 | 19.0 | 16.6 | 15.3 |
| Other..... | 22 | 20 | 16 | -3.9 | 3.0 | 2.8 | 1.8 |
| Total..... | 751 | 725 | 847 | 1.3 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 12.75 | 12.37 | 12.13 | -5 | NA | NA | NA |
| Commercial..... | 11.47 | 10.63 | 10.03 | -1.5 | NA | NA | NA |
| Industrial..... | 10.52 | 8.92 | 9.79 | -8 | NA | NA | NA |
| Other..... | 11.72 | 12.38 | 16.22 | 3.7 | NA | NA | NA |
| Total..... | 11.75 | 10.98 | 10.79 | -9 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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..... | 464,294 | 4,257 | 0 | 0 | 143 | 468,694 |
| Retail Sales (thousand megawatthours)..... | 6,855 | 46 | 0 | 0 | 945 | 7,847 |
| Percentage of Retail Sales..... | 87.37 | .59 | .00 | .00 | 12.05 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 780 | 5 | 0 | 0 | 62 | 847 |
| Percentage of Revenue..... | 92.09 | .62 | .00 | .00 | 7.29 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 11.37 | 11.46 | .00 | .00 | 0 | 10.79 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| South Carolina | | |
| North American Electric Reliability Council (NERC) Region(s) | | SERC |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 19,427 | 17 |
| Utility..... | 18,246 | 12 |
| Nonutility..... | 1,181 | 36 |
| Net Generation (megawatthours)..... | 89,158,988 | 16 |
| Utility..... | 86,734,778 | 10 |
| Nonutility..... | 2,424,210 | 38 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 38,105 | 26 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,265 | 22 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 74,832,367 | 17 |
| Utility Retail Electricity Sales (megawatthours) | 74,832,367 | 17 |
| Direct Use (megawatthours)..... | 1,598,714 | 21 |
| Average Retail Price (cents/kWh)..... | 5.77 | 39 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 Summer..... | Nuclear | South Carolina Electric&Gas Co | 966 |
| 7. H B Robinson | Gas, Petroleum, Coal | Carolina Power & Light Co | 872 |
| 8. Darlington County | Petroleum, Gas | Carolina Power & Light Co | 812 |
| 9. Broad River Energy Ce..... | Other | Broad River Energy LLC | 775 |
| 10. Wateree..... | Petroleum, Coal | South Carolina Electric&Gas Co | 700 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| South Carolina | | | | | |
| A. Duke Energy Corporation | 21,055,649 | 5,352,843 | 4,882,432 | 10,765,125 | 55,249 |
| B. South Carolina Electric&Gas Co | 19,663,967 | 6,494,226 | 6,288,457 | 6,347,558 | 533,726 |
| C. South Carolina Pub Serv Auth..... | 10,691,273 | 1,363,226 | 1,660,229 | 7,600,673 | 67,145 |
| D. Carolina Power & Light Company | 6,904,138 | 1,959,131 | 1,656,753 | 3,198,634 | 89,620 |
| E. Berkeley Electric Coop, Inc | 1,319,373 | 1,005,516 | 118,820 | 144,603 | 50,434 |
| Total | 59,634,400 | 16,174,942 | 14,606,691 | 28,056,593 | 796,174 |
| Percentage of Utility Sales..... | 80 | 65 | 84 | 89 | 84 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| South Carolina | | | | | | | |
| Coal..... | 4,812 | 5,471 | 6,077 | 2.6 | 28.7 | 31.1 | 31.3 |
| Petroleum..... | 274 | 947 | 669 | 10.4 | 1.6 | 5.4 | 3.4 |
| Natural Gas..... | 78 | 27 | 180 | 9.7 | .5 | .2 | .9 |
| Other Gases..... | 364 | 0 | 0 | -100.0 | 2.2 | .0 | .0 |
| Dual Fired..... | 938 | 859 | 1,385 | 4.4 | 5.6 | 4.9 | 7.1 |
| Nuclear..... | 6,364 | 6,421 | 6,445 | .1 | 38.0 | 36.5 | 33.2 |
| Hydroelectric..... | 3,485 | 3,449 | 3,490 | .0 | 20.8 | 19.6 | 18.0 |
| Total Utility..... | 16,314 | 17,173 | 18,246 | 1.3 | 97.4 | 97.7 | 93.9 |
| Coal..... | W | W | 103 | W | W | W | .5 |
| Petroleum..... | W | W | 3 | W | W | W | .0 |
| Natural Gas..... | W | W | 351 | W | W | W | 1.8 |
| Dual Fired..... | W | W | 468 | W | W | W | 2.4 |
| Hydroelectric..... | W | W | 24 | W | W | W | .1 |
| Other Renewables..... | W | W | 232 | W | W | W | 1.2 |
| Total Nonutility..... | 435 | 405 | 1,181 | 11.7 | 2.6 | 2.3 | 6.1 |
| Coal..... | W | W | 6,180 | W | W | W | 31.8 |
| Petroleum..... | W | W | 672 | W | W | W | 3.5 |
| Natural Gas..... | W | W | 531 | W | W | W | 2.7 |
| Other Gases..... | 364 | 0 | 0 | -100.0 | 2.2 | .0 | .0 |
| Dual Fired..... | W | W | 1,853 | W | W | W | 9.5 |
| Nuclear..... | 6,364 | 6,421 | 6,445 | .1 | 38.0 | 36.5 | 33.2 |
| Hydroelectric..... | W | W | 3,514 | W | W | W | 18.1 |
| Other Renewables..... | W | W | 232 | W | W | W | 1.2 |
| Total Industry..... | 16,749 | 17,578 | 19,427 | 1.7 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| South Carolina | | | | | | | |
| Coal..... | 23,013,743 | 30,307,236 | 36,302,690 | 5.2 | 31.0 | 38.5 | 40.7 |
| Petroleum..... | 68,375 | 125,657 | 225,008 | 14.2 | .1 | .2 | .3 |
| Natural Gas..... | 150,024 | 90,464 | 193,612 | 2.9 | .2 | .1 | .2 |
| Nuclear..... | 45,536,530 | 43,571,032 | 49,869,998 | 1.0 | 61.4 | 55.3 | 55.9 |
| Hydroelectric..... | 2,709,976 | 2,231,167 | 143,470 | -27.9 | 3.7 | 2.8 | .2 |
| Total Utility..... | 71,478,648 | 76,325,556 | 86,734,778 | 2.2 | 96.4 | 96.9 | 97.3 |
| Coal..... | 664,122 | 556,080 | 396,315 | -5.6 | .9 | .7 | .4 |
| Petroleum..... | 89,813 | 153,551 | 83,098 | -9 | .1 | .2 | .1 |
| Natural Gas..... | 121,155 | 105,862 | 982,503 | 26.2 | .2 | .1 | 1.1 |
| Other Gases..... | 17,359 | 18,533 | 197 | -39.2 | .0 | .0 | .0 |
| Hydroelectric..... | 64,973 | 54,915 | 46,251 | -3.7 | .1 | .1 | .1 |
| Other Renewable..... | 1,728,414 | 1,550,553 | 915,846 | -6.8 | 2.3 | 2.0 | 1.0 |
| Other..... | 6,027 | 3,503 | 0 | -100.0 | .0 | .0 | .0 |
| Total Nonutility..... | 2,691,861 | 2,442,996 | 2,424,210 | -1.2 | 3.6 | 3.1 | 2.7 |
| Coal..... | 23,677,865 | 30,863,316 | 36,699,005 | 5.0 | 31.9 | 39.2 | 41.2 |
| Petroleum..... | 158,188 | 279,208 | 308,106 | 7.7 | .2 | .4 | .3 |
| Natural Gas..... | 271,179 | 196,326 | 1,176,115 | 17.7 | .4 | .2 | 1.3 |
| Other Gases..... | 17,359 | 18,533 | 197 | -39.2 | .0 | .0 | .0 |
| Nuclear..... | 45,536,530 | 43,571,032 | 49,869,998 | 1.0 | 61.4 | 55.3 | 55.9 |
| Hydroelectric..... | 2,774,949 | 2,286,082 | 189,721 | -25.8 | 3.7 | 2.9 | .2 |
| Other Renewable..... | 1,728,414 | 1,550,553 | 915,846 | -6.8 | 2.3 | 2.0 | 1.0 |
| Other..... | 6,027 | 3,503 | 0 | -100.0 | .0 | .0 | .0 |
| Total Industry..... | 74,170,509 | 78,768,552 | 89,158,988 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| South Carolina | | | | |
| Coal (2001 cents per million Btu)..... | 174.3 | 154.2 | 156.5 | -1.2 |
| Average heat value (Btu per pound)..... | 12,817 | 12,757 | 12,586 | -2 |
| Average sulfur Content(percent)..... | 1.1 | 1.2 | 1.2 | .1 |
| Petroleum (2001 cents per million Btu)..... | 527.0 | 520.5 | 584.6 | 1.1 |
| Average heat value (Btu per gallon)..... | 138,178 | 138,371 | 138,119 | .0 |
| Gas (2001 cents per million Btu)..... | 192.9 | 466.9 | 256.7 | 3.2 |
| Average heat value (Btu per cubic foot)..... | 1022.3 | 1024.6 | 1028.0 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| South Carolina | | | | |
| Sulfur Dioxide | | | | |
| Coal | 158 | 207 | NA | NA |
| Petroleum | * | 2 | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 4 | 5 | NA | NA |
| Total | 162 | 214 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 81 | 131 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 1 | 2 | NA | NA |
| Other | 1 | 2 | NA | NA |
| Total | 84 | 135 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 24,320 | 31,368 | 37,090 | 4.8 |
| Petroleum | 169 | 353 | 318 | 7.3 |
| Gas | 175 | 207 | 681 | 16.3 |
| Other | 8 | 11 | 15 | 6.6 |
| Total | 24,672 | 31,940 | 38,105 | 4.9 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| South Carolina | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 18,940 | 22,514 | 24,875 | 3.1 | 32.4 | 33.6 | 33.2 |
| Commercial | 12,375 | 14,545 | 17,484 | 3.9 | 21.2 | 21.7 | 23.4 |
| Industrial | 26,305 | 29,185 | 31,528 | 2.0 | 45.0 | 43.5 | 42.1 |
| Other | 781 | 843 | 946 | 2.1 | 1.3 | 1.3 | 1.3 |
| Total | 58,401 | 67,086 | 74,832 | 2.8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,553 | 1,769 | 1,912 | 2.3 | 42.1 | 44.4 | 44.3 |
| Commercial | 871 | 972 | 1,127 | 2.9 | 23.6 | 24.4 | 26.1 |
| Industrial | 1,210 | 1,189 | 1,218 | .1 | 32.8 | 29.8 | 28.2 |
| Other | 51 | 53 | 60 | 1.9 | 1.4 | 1.3 | 1.4 |
| Total | 3,685 | 3,983 | 4,317 | 1.8 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 8.20 | 7.86 | 7.69 | -.7 | NA | NA | NA |
| Commercial | 7.04 | 6.68 | 6.45 | -1.0 | NA | NA | NA |
| Industrial | 4.60 | 4.07 | 3.86 | -1.9 | NA | NA | NA |
| Other | 6.52 | 6.32 | 6.39 | -.2 | NA | NA | NA |
| Total | 6.31 | 5.94 | 5.77 | -1.0 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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..... | 548,194 | 937,265 | 0 | 585,175 | 0 | 2,070,634 |
| Retail Sales (thousand megawatthours)..... | 19,857 | 42,676 | 0 | 12,299 | 0 | 74,832 |
| Percentage of Retail Sales..... | 26.53 | 57.03 | .00 | 16.44 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 1,225 | 2,235 | 0 | 857 | 0 | 4,317 |
| Percentage of Revenue | 28.38 | 51.78 | .00 | 19.84 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.17 | 5.24 | .00 | 6.96 | 0 | 5.77 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-----------|-----------|
| South Dakota | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC/MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 2,814 | 45 |
| Utility..... | 2,814 | 37 |
| Net Generation (megawatthours) | 7,400,743 | 47 |
| Utility..... | 7,400,743 | 38 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide | 4,317 | 47 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 57 | 48 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 8,626,999 | 48 |
| Utility Retail Electricity Sales (megawatthours) | 8,626,999 | 46 |
| Average Retail Price (cents/kWh)..... | 6.35 | 28 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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 | 457 |
| 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, Coal, Gas | 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 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|--------|
| South Dakota | | | | | |
| A. Northern States Power Company..... | 1,555,597 | 504,719 | 752,862 | 289,742 | 8,274 |
| B. Black Hills Power Inc | 1,416,548 | 414,158 | 584,571 | 392,721 | 25,098 |
| C. NorthWestern Public Service Co | 1,185,429 | 452,131 | 509,235 | 206,668 | 17,395 |
| D. Sioux Valley Southwestern El | 300,611 | 200,054 | 71,103 | 26,179 | 3,275 |
| E. Otter Tail Power Company..... | 276,359 | 102,927 | 102,569 | 63,213 | 7,650 |
| Total | 4,734,544 | 1,673,989 | 2,020,340 | 978,523 | 61,692 |
| Percentage of Utility Sales..... | 55 | 47 | 69 | 59 | 13 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|----------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| South Dakota | | | | | | | |
| Coal..... | 499 | 474 | 477 | -0.5 | 18.2 | 16.0 | 17.0 |
| Petroleum..... | 223 | 229 | 228 | .3 | 8.1 | 7.8 | 8.1 |
| Natural Gas..... | 64 | 293 | 290 | 18.3 | 2.3 | 9.9 | 10.3 |
| Dual Fired..... | 138 | 138 | 138 | .0 | 5.0 | 4.7 | 4.9 |
| Hydroelectric..... | 1,821 | 1,820 | 1,678 | -9 | 66.3 | 61.6 | 59.6 |
| Other Renewables..... | 0 | 0 | 3 | .0 | .0 | .0 | .1 |
| Total Utility..... | 2,744 | 2,954 | 2,814 | .3 | 100.0 | 100.0 | 100.0 |
| Coal..... | 499 | 474 | 477 | -.5 | 18.2 | 16.0 | 17.0 |
| Petroleum..... | 223 | 229 | 228 | .3 | 8.1 | 7.8 | 8.1 |
| Natural Gas..... | 64 | 293 | 290 | 18.3 | 2.3 | 9.9 | 10.3 |
| Dual Fired..... | 138 | 138 | 138 | .0 | 5.0 | 4.7 | 4.9 |
| Hydroelectric..... | 1,821 | 1,820 | 1,678 | -9 | 66.3 | 61.6 | 59.6 |
| Other Renewables..... | 0 | 0 | 3 | .0 | .0 | .0 | .1 |
| Total Industry..... | 2,744 | 2,954 | 2,814 | .3 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|----------------------------|------------------|-------------------|------------------|--|-----------------------|-----------------------|-----------------------|
| South Dakota | | | | | | | |
| Coal..... | 2,626,290 | 2,029,901 | 3,611,680 | 3.6 | 42.0 | 20.2 | 48.8 |
| Petroleum..... | 7,472 | 8,975 | 51,524 | 23.9 | .1 | .1 | .7 |
| Natural Gas..... | 642 | 49,728 | 304,803 | 98.3 | .0 | .5 | 4.1 |
| Hydroelectric..... | 3,612,010 | 7,977,670 | 3,431,865 | -6 | 57.8 | 79.3 | 46.4 |
| Other Renewable..... | 0 | 0 | 871 | .0 | .0 | .0 | .0 |
| Total Utility..... | 6,246,414 | 10,066,274 | 7,400,743 | 1.9 | 100.0 | 100.0 | 100.0 |
| Coal..... | 2,626,290 | 2,029,901 | 3,611,680 | 3.6 | 42.0 | 20.2 | 48.8 |
| Petroleum..... | 7,472 | 8,975 | 51,524 | 23.9 | .1 | .1 | .7 |
| Natural Gas..... | 642 | 49,728 | 304,803 | 98.3 | .0 | .5 | 4.1 |
| Hydroelectric..... | 3,612,010 | 7,977,670 | 3,431,865 | -6 | 57.8 | 79.3 | 46.4 |
| Other Renewable..... | 0 | 0 | 871 | .0 | .0 | .0 | .0 |
| Total Industry..... | 6,246,414 | 10,066,274 | 7,400,743 | 1.9 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|--------|---------|-------|--|
| South Dakota | | | | |
| Coal (2001 cents per million Btu) | 129.4 | 98.3 | 103.3 | -2.5 |
| Average heat value (Btu per pound) | 6,034 | 9,034 | 8,427 | 3.8 |
| Average sulfur Content(percent) | .9 | .5 | .3 | -10.8 |
| Petroleum (2001 cents per million Btu) | .0 | 626.7 | .0 | .0 |
| Average heat value (Btu per gallon)..... | 0 | 140,000 | 0 | .0 |
| Gas (2001 cents per million Btu)..... | 322.7 | 244.2 | .0 | -100.0 |
| Average heat value (Btu per cubic foot)..... | 1018.8 | 1014.0 | .0 | -100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---------------------|-------|-------|-------|--|
| South Dakota | | | | |
| Sulfur Dioxide | | | | |
| Coal | 32 | 15 | NA | NA |
| Petroleum | * | * | NA | NA |
| Other..... | 0 | * | NA | NA |
| Total | 32 | 15 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 19 | 18 | NA | NA |
| Petroleum | 0 | * | NA | NA |
| Gas..... | * | * | NA | NA |
| Other..... | 0 | * | NA | NA |
| Total | 19 | 18 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 3,380 | 2,831 | 3,999 | 1.9 |
| Petroleum | 9 | 15 | 50 | 20.9 |
| Gas..... | 3 | 43 | 269 | 65.8 |
| Total | 3,392 | 2,890 | 4,317 | 2.7 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|-------|--|-----------------------|-----------------------|-----------------------|
| South Dakota | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 2,843 | 3,426 | 3,580 | 2.6 | 43.8 | 44.3 | 41.5 |
| Commercial..... | 1,518 | 2,179 | 2,915 | 7.5 | 23.4 | 28.2 | 33.8 |
| Industrial..... | 1,777 | 1,785 | 1,666 | -7 | 27.4 | 23.1 | 19.3 |
| Other..... | 356 | 346 | 465 | 3.0 | 5.5 | 4.5 | 5.4 |
| Total..... | 6,494 | 7,736 | 8,627 | 3.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 230 | 251 | 266 | 1.6 | 50.0 | 50.2 | 48.5 |
| Commercial..... | 117 | 150 | 191 | 5.5 | 25.5 | 29.9 | 34.8 |
| Industrial..... | 94 | 83 | 74 | -2.6 | 20.5 | 16.6 | 13.5 |
| Other..... | 18 | 17 | 17 | -8 | 4.0 | 3.3 | 3.1 |
| Total..... | 460 | 501 | 548 | 1.9 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.10 | 7.34 | 7.42 | -1.0 | NA | NA | NA |
| Commercial..... | 7.74 | 6.88 | 6.55 | -1.8 | NA | NA | NA |
| Industrial..... | 5.31 | 4.66 | 4.46 | -1.9 | NA | NA | NA |
| Other..... | 5.19 | 4.80 | 3.71 | -3.7 | NA | NA | NA |
| Total..... | 7.09 | 6.48 | 6.35 | -1.2 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|---------|
| South Dakota | | | | | | |
| Number of Entities..... | 1 | 48 | 0 | 23 | 0 | 72 |
| Number of Retail Customers..... | 57,412 | 238,863 | 0 | 93,016 | 0 | 389,291 |
| Retail Sales (thousand megawatthours)..... | 1,185 | 5,736 | 0 | 1,705 | 0 | 8,627 |
| Percentage of Retail Sales..... | 13.74 | 66.49 | .00 | 19.77 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 82 | 342 | 0 | 124 | 0 | 548 |
| Percentage of Revenue..... | 14.97 | 62.43 | .00 | 22.59 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.92 | 5.96 | .00 | 7.26 | 0 | 6.35 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Tennessee | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR/SERC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 20,160 | 15 |
| Utility..... | 18,600 | 11 |
| Nonutility..... | 1,560 | 27 |
| Net Generation (megawatthours) | 96,221,985 | 13 |
| Utility..... | 92,937,315 | 9 |
| Nonutility..... | 3,284,670 | 35 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 62,247 | 15 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,510 | 17 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 95,320,199 | 13 |
| Utility Retail Electricity Sales (megawatthours) | 95,320,199 | 13 |
| Direct Use (megawatthours)..... | 3,148,096 | 11 |
| Average Retail Price (cents/kWh)..... | 5.62 | 40 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|----------------------------|----------------------|----------------------------|---------------------|
| Tennessee | | | |
| 1. Cumberland..... | Petroleum, Coal | Tennessee Valley Authority | 2,462 |
| 2. Johnsonville | Petroleum, Coal | Tennessee Valley Authority | 2,314 |
| 3. Sequoyah..... | Nuclear | Tennessee Valley Authority | 2,239 |
| 4. Raccoon Mountain..... | Hydro | Tennessee Valley Authority | 1,578 |
| 5. Gallatin..... | Petroleum, Coal | Tennessee Valley Authority | 1,552 |
| 6. Kingston..... | Petroleum, Coal | Tennessee Valley Authority | 1,434 |
| 7. Allen..... | Gas, Petroleum, Coal | Tennessee Valley Authority | 1,204 |
| 8. Watts Bar Nuclear | Nuclear | Tennessee Valley Authority | 1,128 |
| 9. Bull Run..... | Petroleum, Coal | Tennessee Valley Authority | 868 |
| 10. John Sevier..... | Petroleum, Coal | Tennessee Valley Authority | 704 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|-------------------------------------|-------------|-------------|------------|------------|---------|
| Tennessee | | | | | |
| A. City of Memphis..... | 13,898,744 | 5,217,895 | 4,577,493 | 3,959,704 | 143,652 |
| B. Nashville Electric Service | 11,877,119 | 4,361,457 | 4,337,026 | 3,065,844 | 112,792 |
| C. Tennessee Valley Authority | 8,471,648 | 0 | 0 | 8,462,546 | 9,102 |
| D. City of Chattanooga..... | 5,723,085 | 1,944,345 | 1,799,591 | 1,927,799 | 51,350 |
| E. City of Knoxville | 5,384,125 | 2,285,344 | 1,692,151 | 1,344,247 | 62,383 |
| Total | 45,354,721 | 13,809,041 | 12,406,261 | 18,760,140 | 379,279 |
| Percentage of Utility Sales..... | 48 | 37 | 48 | 60 | 35 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Tennessee | | | | | | | |
| Coal..... | 8,683 | 8,615 | 8,618 | -0.1 | 52.0 | 48.2 | 42.7 |
| Petroleum..... | 0 | 0 | 36 | .0 | .0 | .0 | .2 |
| Dual Fired..... | 1,568 | 1,568 | 2,760 | 6.5 | 9.4 | 8.8 | 13.7 |
| Nuclear..... | 2,296 | 3,345 | 3,367 | 4.3 | 13.7 | 18.7 | 16.7 |
| Hydroelectric..... | 3,747 | 3,725 | 3,817 | .2 | 22.4 | 20.8 | 18.9 |
| Other Renewables..... | 0 | 0 | 2 | .0 | .0 | .0 | .0 |
| Total Utility..... | 16,294 | 17,253 | 18,600 | 1.5 | 97.5 | 96.6 | 92.3 |
| Coal..... | 285 | 332 | 295 | .4 | 1.7 | 1.9 | 1.5 |
| Natural Gas..... | W | W | 1,026 | W | W | W | 5.1 |
| Hydroelectric..... | W | W | 165 | W | W | W | .8 |
| Other Renewables..... | W | W | 74 | W | W | W | .4 |
| Other..... | 38 | 38 | 0 | -100.0 | .2 | .2 | .0 |
| Total Nonutility..... | 414 | 615 | 1,559 | 15.9 | 2.5 | 3.4 | 7.7 |
| Coal..... | 8,968 | 8,947 | 8,913 | -.1 | 53.7 | 50.1 | 44.2 |
| Petroleum..... | 0 | 0 | 36 | .0 | .0 | .0 | .2 |
| Natural Gas..... | W | W | 1,026 | W | W | W | 5.1 |
| Dual Fired..... | 1,568 | 1,568 | 2,760 | 6.5 | 9.4 | 8.8 | 13.7 |
| Nuclear..... | 2,296 | 3,345 | 3,367 | 4.3 | 13.7 | 18.7 | 16.7 |
| Hydroelectric..... | W | W | 3,982 | W | W | W | 19.8 |
| Other Renewables..... | W | W | 76 | W | W | W | .4 |
| Other..... | 38 | 38 | 0 | -100.0 | .2 | .2 | .0 |
| Total Industry..... | 16,708 | 17,868 | 20,160 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Tennessee | | | | | | | |
| Coal..... | 49,995,747 | 55,504,189 | 58,166,973 | 1.7 | 64.3 | 60.3 | 60.5 |
| Petroleum..... | 127,282 | 257,586 | 379,703 | 12.9 | .2 | .3 | .4 |
| Natural Gas..... | 29,936 | 60,783 | 5,316 | -17.5 | .0 | .1 | .0 |
| Nuclear..... | 15,653,580 | 22,924,239 | 28,576,431 | 6.9 | 20.1 | 24.9 | 29.7 |
| Hydroelectric..... | 9,589,664 | 9,900,314 | 5,808,892 | -5.4 | 12.3 | 10.7 | 6.0 |
| Total Utility..... | 75,396,209 | 88,647,111 | 92,937,315 | 2.4 | 97.0 | 96.2 | 96.6 |
| Coal..... | 1,531,918 | 1,675,415 | 1,563,063 | .2 | 2.0 | 1.8 | 1.6 |
| Petroleum..... | 2,316 | 2,495 | 20,364 | 27.3 | .0 | .0 | .0 |
| Natural Gas..... | 245,575 | 189,220 | 450,187 | 7.0 | .3 | .2 | .5 |
| Other Gases..... | 3,454 | 14,829 | 18,496 | 20.5 | .0 | .0 | .0 |
| Hydroelectric..... | 0 | 888,202 | 403,914 | .0 | .0 | 1.0 | .4 |
| Other Renewable..... | 489,103 | 577,623 | 828,645 | 6.0 | .6 | .6 | .9 |
| Other..... | 79,537 | 127,473 | 0 | -100.0 | .1 | .1 | .0 |
| Total Nonutility..... | 2,351,903 | 3,475,257 | 3,284,670 | 3.8 | 3.0 | 3.8 | 3.4 |
| Coal..... | 51,527,665 | 57,179,604 | 59,730,036 | 1.7 | 66.3 | 62.1 | 62.1 |
| Petroleum..... | 129,598 | 260,081 | 400,067 | 13.3 | .2 | .3 | .4 |
| Natural Gas..... | 275,511 | 250,003 | 455,503 | 5.7 | .4 | .3 | .5 |
| Other Gases..... | 3,454 | 14,829 | 18,496 | 20.5 | .0 | .0 | .0 |
| Nuclear..... | 15,653,580 | 22,924,239 | 28,576,431 | 6.9 | 20.1 | 24.9 | 29.7 |
| Hydroelectric..... | 9,589,664 | 10,788,516 | 6,212,806 | -4.7 | 12.3 | 11.7 | 6.5 |
| Other Renewable..... | 489,103 | 577,623 | 828,645 | 6.0 | .6 | .6 | .9 |
| Other..... | 79,537 | 127,473 | 0 | -100.0 | .1 | .1 | .0 |
| Total Industry..... | 77,748,112 | 92,122,368 | 96,221,985 | 2.4 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|---------|--|
| Tennessee | | | | |
| Coal (2001 cents per million Btu)..... | 145.3 | 120.1 | 122.0 | -1.9 |
| Average heat value (Btu per pound)..... | 12,182 | 12,062 | 11,605 | -.5 |
| Average sulfur Content(percent)..... | 2.0 | 1.9 | 1.4 | -4.3 |
| Petroleum (2001 cents per million Btu)..... | 548.2 | 508.0 | 553.8 | .1 |
| Average heat value (Btu per gallon)..... | 138,459 | 139,792 | 139,900 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|------------------|--------|--------|--------|--|
| Tennessee | | | | |
| Sulfur Dioxide | | | | |
| Coal | 797 | 524 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | 1 | 2 | NA | NA |
| Total | 798 | 526 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 196 | 263 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | * | 1 | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 197 | 264 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 51,497 | 57,928 | 61,515 | 2.0 |
| Petroleum | 107 | 218 | 430 | 16.7 |
| Gas | 186 | 176 | 298 | 5.4 |
| Other | 14 | 8 | 4 | -12.4 |
| Total | 51,804 | 58,330 | 62,247 | 2.1 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Tennessee | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 29,498 | 35,333 | 36,932 | 2.5 | 37.5 | 40.3 | 38.7 |
| Commercial | 6,470 | 5,548 | 25,974 | 16.7 | 8.2 | 6.3 | 27.3 |
| Industrial | 41,695 | 45,781 | 31,338 | -3.1 | 53.1 | 52.2 | 32.9 |
| Other | 922 | 996 | 1,077 | 1.7 | 1.2 | 1.1 | 1.1 |
| Total | 78,584 | 87,659 | 95,320 | 2.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,919 | 2,177 | 2,335 | 2.2 | 41.1 | 45.2 | 43.6 |
| Commercial | 480 | 386 | 1,639 | 14.6 | 10.3 | 8.0 | 30.6 |
| Industrial | 2,190 | 2,166 | 1,291 | -5.7 | 46.9 | 45.0 | 24.1 |
| Other | 78 | 83 | 95 | 2.2 | 1.7 | 1.7 | 1.8 |
| Total | 4,666 | 4,813 | 5,360 | 1.5 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 6.50 | 6.16 | 6.32 | -3 | NA | NA | NA |
| Commercial | 7.41 | 6.96 | 6.31 | -1.8 | NA | NA | NA |
| Industrial | 5.25 | 4.73 | 4.12 | -2.7 | NA | NA | NA |
| Other | 8.46 | 8.34 | 8.83 | .5 | NA | NA | NA |
| Total | 5.94 | 5.49 | 5.62 | -6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| Tennessee | | | | | | |
| Number of Entities | 1 | 71 | 0 | 19 | 0 | 91 |
| Number of Retail Customers..... | 45,163 | 2,019,746 | 0 | 771,535 | 0 | 2,836,444 |
| Retail Sales (thousand megawatthours)..... | 1,798 | 75,551 | 0 | 17,972 | 0 | 95,320 |
| Percentage of Retail Sales..... | 1.89 | 79.26 | .00 | 18.85 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 77 | 4,157 | 0 | 1,125 | 0 | 5,360 |
| Percentage of Revenue | 1.45 | 77.56 | .00 | 20.99 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 4.31 | 5.50 | .00 | 6.26 | 0 | 5.62 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-------------|---------------------|
| Texas | | |
| North American Electric Reliability Council (NERC) Region(s) | | ERCOT/SPP/WCSS/SERC |
| Primary Energy Source | | Gas |
| Net Summer Capability (megawatts)..... | 87,956 | 1 |
| Utility..... | 38,940 | 1 |
| Nonutility..... | 49,016 | 1 |
| Net Generation (megawatthours) | 372,580,008 | 1 |
| Utility..... | 265,012,955 | 1 |
| Nonutility..... | 107,567,053 | 4 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 257,928 | 1 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 985 | 26 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 316,061,963 | 1 |
| Utility Retail Electricity Sales (megawatthours) | 315,032,808 | 1 |
| ESP Retail Electricity Sales (megawatthours)..... | 1,029,155 | 11 |
| Direct Use (megawatthours)..... | 42,314,715 | 1 |
| Average Retail Price (cents/kWh)..... | 7.40 | 16 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|------------------------|-----------------|--------------------------------|---------------------|
| Texas | | | |
| 1. W A Parish | Gas, Coal | Reliant Energy HL&P | 3,654 |
| 2. South Texas | Nuclear | Reliant Energy HL&P | 2,529 |
| 3. Cedar Bayou | Petroleum, Gas | Reliant Energy HL&P | 2,260 |
| 4. Martin Lake | Petroleum, Coal | TXU Generation Co LP | 2,250 |
| 5. P H Robinson..... | Gas | Reliant Energy HL&P | 2,213 |
| 6. Comanche Peak | Nuclear | TXU Generation Co LP | 2,208 |
| 7. Monticello | Petroleum, Coal | TXU Generation Co LP | 1,885 |
| 8. Sabine..... | Petroleum, Gas | Energy Gulf States Inc | 1,804 |
| 9. Fayette..... | Petroleum, Coal | Lower Colorado River Authority | 1,605 |
| 10. Welsh..... | Petroleum, Coal | Southwestern Electric Power Co | 1,584 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|------------|
| Texas | | | | | |
| A. TXU Electric Company..... | 102,526,131 | 38,624,358 | 31,867,640 | 25,040,974 | 6,993,159 |
| B. Reliant Energy HL&P | 69,839,304 | 21,478,573 | 17,407,925 | 30,812,592 | 140,214 |
| C. Central Power & Light Company | 20,153,162 | 7,885,963 | 5,580,538 | 6,088,435 | 598,226 |
| D. San Antonio Public Service Bd | 16,565,357 | 7,060,203 | 2,820,368 | 4,646,719 | 2,038,067 |
| E. Energy Gulf States, Inc | 14,392,952 | 4,619,174 | 3,351,946 | 6,188,466 | 233,366 |
| Total | 223,476,906 | 79,668,271 | 61,028,417 | 72,777,186 | 10,003,032 |
| Percentage of Utility Sales..... | 71 | 68 | 69 | 76 | 68 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Texas | | | | | | | |
| Coal..... | 19,271 | 19,399 | 12,471 | -4.7 | 27.6 | 26.4 | 14.2 |
| Petroleum..... | 42 | 37 | 4 | -22.9 | .1 | .1 | .0 |
| Natural Gas..... | 9,041 | 9,065 | 8,467 | -7 | 12.9 | 12.4 | 9.6 |
| Dual Fired..... | 30,040 | 30,650 | 14,764 | -7.6 | 43.0 | 41.8 | 16.8 |
| Nuclear..... | 3,632 | 4,932 | 2,529 | -3.9 | 5.2 | 6.7 | 2.9 |
| Hydroelectric..... | 644 | 683 | 690 | .8 | .9 | .9 | .8 |
| Other Renewables..... | * | * | 3 | 29.2 | .0 | .0 | .0 |
| Other..... | 0 | 0 | 13 | .0 | .0 | .0 | .0 |
| Total Utility..... | 62,671 | 64,767 | 38,940 | -5.2 | 89.6 | 88.3 | 44.3 |
| Coal..... | W | W | 7,442 | W | W | W | 8.5 |
| Petroleum..... | W | W | 514 | W | W | W | .6 |
| Natural Gas..... | 5,109 | 6,619 | 19,962 | 16.3 | 7.3 | 9.0 | 22.7 |
| Other Gases..... | 156 | 169 | 155 | -1 | .2 | .2 | .2 |
| Dual Fired..... | 1,284 | 1,126 | 17,517 | 33.7 | 1.8 | 1.5 | 19.9 |
| Nuclear..... | 0 | 0 | 2,208 | .0 | .0 | .0 | 2.5 |
| Hydroelectric..... | W | W | 7 | W | W | W | .0 |
| Other Renewables..... | W | W | 1,032 | W | W | W | 1.2 |
| Other..... | 70 | 70 | 178 | 10.9 | .1 | .1 | .2 |
| Total Nonutility..... | 7,236 | 8,593 | 49,015 | 23.7 | 10.4 | 11.7 | 55.7 |
| Coal..... | W | W | 19,913 | W | W | W | 22.6 |
| Petroleum..... | W | W | 518 | W | W | W | .6 |
| Natural Gas..... | 14,150 | 15,684 | 28,429 | 8.1 | 20.2 | 21.4 | 32.3 |
| Other Gases..... | 156 | 169 | 155 | -1 | .2 | .2 | .2 |
| Dual Fired..... | 31,324 | 31,776 | 32,282 | .3 | 44.8 | 43.3 | 36.7 |
| Nuclear..... | 3,632 | 4,932 | 4,737 | 3.0 | 5.2 | 6.7 | 5.4 |
| Hydroelectric..... | W | W | 697 | W | W | W | .8 |
| Other Renewables..... | W | W | 1,035 | W | W | W | 1.2 |
| Other..... | 70 | 70 | 191 | 11.8 | .1 | .1 | .2 |
| Total Industry..... | 69,906 | 73,360 | 87,956 | 2.6 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------------|--------------------|--------------------|--|-----------------------|-----------------------|-----------------------|
| Texas | | | | | | | |
| Coal..... | 118,673,068 | 133,255,364 | 132,296,611 | 1.2 | 40.9 | 40.5 | 35.5 |
| Petroleum..... | 253,672 | 558,659 | 1,741,052 | 23.9 | .1 | .2 | .5 |
| Natural Gas..... | 93,621,327 | 101,748,031 | 91,617,908 | -2 | 32.3 | 30.9 | 24.6 |
| Nuclear..... | 24,496,392 | 35,766,550 | 38,162,863 | 5.0 | 8.4 | 10.9 | 10.2 |
| Hydroelectric..... | 2,638,164 | 953,721 | 1,194,526 | -8.4 | .9 | .3 | .3 |
| Other Renewable..... | 281,391 | 260 | -5 | 0 | .1 | .0 | .0 |
| Total Utility..... | 239,964,014 | 272,282,585 | 265,012,955 | 1.1 | 82.7 | 82.8 | 71.1 |
| Coal..... | W | W | 2,803,310 | W | W | W | .8 |
| Petroleum..... | 1,374,490 | 1,353,202 | 1,062,353 | -2.8 | .5 | .4 | .3 |
| Natural Gas..... | 41,018,060 | 46,284,985 | 98,493,084 | 10.2 | 14.1 | 14.1 | 26.4 |
| Other Gases..... | 3,527,112 | 4,408,854 | 1,574,323 | -8.6 | 1.2 | 1.3 | .4 |
| Hydroelectric..... | W | W | 5,805 | W | W | W | .0 |
| Other Renewable..... | 1,361,567 | 1,446,935 | 2,195,081 | 5.4 | .5 | .4 | .6 |
| Other..... | 324,978 | 572,507 | 1,433,097 | 17.9 | .1 | .2 | .4 |
| Total Nonutility..... | 50,328,300 | 56,666,349 | 107,567,053 | 8.8 | 17.3 | 17.2 | 28.9 |
| Coal..... | W | W | 135,099,921 | W | W | W | 36.3 |
| Petroleum..... | 1,628,162 | 1,911,861 | 2,803,405 | 6.2 | .6 | .6 | .8 |
| Natural Gas..... | 134,639,387 | 148,033,016 | 190,110,992 | 3.9 | 46.4 | 45.0 | 51.0 |
| Other Gases..... | 3,527,112 | 4,408,854 | 1,574,323 | -8.6 | 1.2 | 1.3 | .4 |
| Nuclear..... | 24,496,392 | 35,766,550 | 38,162,863 | 5.0 | 8.4 | 10.9 | 10.2 |
| Hydroelectric..... | W | W | 1,200,331 | W | W | W | .3 |
| Other Renewable..... | 1,642,958 | 1,447,195 | 2,195,076 | 3.3 | .6 | .4 | .6 |
| Other..... | 324,978 | 572,507 | 1,433,097 | 17.9 | .1 | .2 | .4 |
| Total Industry..... | 290,292,314 | 328,948,934 | 372,580,008 | 2.8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Texas | | | | |
| Coal (2001 cents per million Btu)..... | 170.3 | 135.7 | 133.2 | -2.7 |
| Average heat value (Btu per pound)..... | 7,234 | 7,440 | 7,651 | .6 |
| Average sulfur Content(percent)..... | .8 | .7 | .7 | -1.4 |
| Petroleum (2001 cents per million Btu)..... | 455.5 | 496.0 | 555.6 | 2.2 |
| Average heat value (Btu per gallon)..... | 140,131 | 138,386 | 265,166 | 7.3 |
| Average sulfur Content(percent)..... | .6 | .0 | 1.2 | 8.7 |
| Gas (2001 cents per million Btu)..... | 250.6 | 257.4 | 420.9 | 5.9 |
| Average heat value (Btu per cubic foot)..... | 1026.2 | 1023.3 | 1025.8 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|---------|---------|---------|--|
| Texas | | | | |
| Sulfur Dioxide | | | | |
| Coal | 545 | 738 | NA | NA |
| Petroleum | 48 | 42 | NA | NA |
| Gas | * | * | NA | NA |
| Other | 5 | 5 | NA | NA |
| Total | 598 | 785 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 454 | 281 | NA | NA |
| Petroleum | 3 | 3 | NA | NA |
| Gas | 165 | 190 | NA | NA |
| Other | 3 | 4 | NA | NA |
| Total | 624 | 479 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 135,427 | 151,122 | 151,990 | 1.3 |
| Petroleum | 1,980 | 2,323 | 3,155 | 5.3 |
| Gas | 78,709 | 85,396 | 102,783 | 3.0 |
| Total | 216,117 | 238,841 | 257,928 | 2.0 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|---------|---------|---------|--|-----------------------|-----------------------|-----------------------|
| Texas | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 81,934 | 99,656 | 117,321 | 4.1 | 34.2 | 35.8 | 37.1 |
| Commercial | 61,696 | 70,866 | 88,227 | 4.0 | 25.8 | 25.4 | 27.9 |
| Industrial | 85,421 | 95,308 | 95,771 | 1.3 | 35.7 | 34.2 | 30.3 |
| Other | 10,381 | 12,619 | 14,744 | 4.0 | 4.3 | 4.5 | 4.7 |
| Total | 239,431 | 278,450 | 316,062 | 3.1 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 7,236 | 8,109 | 10,399 | 4.1 | 43.0 | 45.1 | 44.4 |
| Commercial | 4,736 | 4,983 | 6,807 | 4.1 | 28.2 | 27.7 | 29.1 |
| Industrial | 4,092 | 4,025 | 5,087 | 2.4 | 24.3 | 22.4 | 21.7 |
| Other | 751 | 851 | 1,103 | 4.4 | 4.5 | 4.7 | 4.7 |
| Total | 16,815 | 17,968 | 23,396 | 3.7 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 8.83 | 8.14 | 8.86 | * | NA | NA | NA |
| Commercial | 7.68 | 7.03 | 7.72 | .1 | NA | NA | NA |
| Industrial | 4.79 | 4.22 | 5.31 | 1.1 | NA | NA | NA |
| Other | 7.24 | 6.75 | 7.48 | .4 | NA | NA | NA |
| Total | 7.02 | 6.45 | 7.40 | .6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| Texas | | | | | | |
| Number of Entities | 6 | 87 | 0 | 62 | 4 | 159 |
| Number of Retail Customers..... | 5,446,288 | 2,693,310 | 0 | 1,485,646 | 53,778 | 9,679,022 |
| Retail Sales (thousand megawatthours)..... | 198,434 | 87,943 | 0 | 28,656 | 1,029 | 316,062 |
| Percentage of Retail Sales..... | 62.78 | 27.82 | .00 | 9.07 | .33 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 15,330 | 5,797 | 0 | 2,222 | 47 | 23,396 |
| Percentage of Revenue | 65.52 | 24.78 | .00 | 9.50 | .20 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 7.73 | 6.59 | .00 | 7.75 | 0 | 7.40 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Utah | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 5,308 | 39 |
| Utility..... | 5,129 | 33 |
| Nonutility..... | 179 | 47 |
| Net Generation (megawatthours) | 35,853,751 | 35 |
| Utility..... | 35,138,801 | 30 |
| Nonutility..... | 714,950 | 45 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 36,678 | 28 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 446 | 37 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 23,217,308 | 37 |
| Utility Retail Electricity Sales (megawatthours) | 23,217,308 | 37 |
| Direct Use (megawatthours)..... | 368,858 | 35 |
| Average Retail Price (cents/kWh)..... | 5.21 | 47 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------------|-----------------|--------------------------------|---------------------|
| Utah | | | |
| 1. Intermountain | 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 | 235 |
| 6. Carbon..... | Petroleum, Coal | PacifiCorp | 175 |
| 7. Flaming Gorge..... | Hydro | U S Bureau of Reclamation | 152 |
| 8. Desert Power, L.P..... | Hydro | Desert Power LP | 68 |
| 9. Sunnyside Cogen Assoc | Coal | Sunnyside Cogeneration Assoc | 51 |
| 10. Geneva Steel | Other | Geneva Steel | 50 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|---------|
| Utah | | | | | |
| A. PacifiCorp | 18,770,893 | 5,080,081 | 6,348,218 | 6,771,835 | 570,759 |
| B. Provo City Corporation | 706,219 | 209,261 | 376,055 | 120,903 | 0 |
| C. St George Dept Water & Power | 416,346 | 186,832 | 215,340 | 0 | 14,174 |
| D. Logan City Light & Power..... | 373,267 | 82,752 | 140,721 | 87,672 | 62,122 |
| E. Murray City Power Department | 360,051 | 109,127 | 241,621 | 0 | 9,303 |
| Total | 20,626,776 | 5,668,053 | 7,321,955 | 6,980,410 | 656,358 |
| Percentage of Utility Sales..... | 89 | 85 | 89 | 94 | 77 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Utah | | | | | | | |
| Coal..... | 4,271 | 4,374 | 4,464 | 0.5 | 87.4 | 86.4 | 84.1 |
| Petroleum..... | 26 | 23 | 32 | 2.6 | .5 | .5 | .6 |
| Natural Gas..... | 179 | 173 | 268 | 4.6 | 3.7 | 3.4 | 5.0 |
| Dual Fired..... | 49 | 57 | 82 | 5.8 | 1.0 | 1.1 | 1.5 |
| Hydroelectric..... | 251 | 262 | 251 | .0 | 5.1 | 5.2 | 4.7 |
| Other Renewables..... | 27 | 35 | 33 | 2.2 | .6 | .7 | .6 |
| Total Utility..... | 4,802 | 4,926 | 5,129 | .7 | 98.3 | 97.3 | 96.6 |
| Coal..... | W | W | 101 | W | W | W | 1.9 |
| Petroleum..... | W | W | 3 | W | W | W | .1 |
| Natural Gas..... | W | W | 72 | W | W | W | 1.3 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 2 | W | W | W | .0 |
| Other Renewables..... | 0 | 0 | 1 | .0 | .0 | .0 | .0 |
| Total Nonutility..... | 82 | 136 | 179 | 9.1 | 1.7 | 2.7 | 3.4 |
| Coal..... | W | W | 4,565 | W | W | W | 86.0 |
| Petroleum..... | W | W | 35 | W | W | W | .7 |
| Natural Gas..... | W | W | 340 | W | W | W | 6.4 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Dual Fired..... | W | W | 82 | W | W | W | 1.5 |
| Hydroelectric..... | W | W | 253 | W | W | W | 4.8 |
| Other Renewables..... | 27 | 35 | 34 | 2.7 | .6 | .7 | .6 |
| Total Industry..... | 4,884 | 5,062 | 5,308 | .9 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Utah | | | | | | | |
| Coal..... | 31,543,011 | 30,693,187 | 33,204,340 | 0.6 | 94.9 | 93.1 | 92.6 |
| Petroleum..... | 33,557 | 30,957 | 57,538 | 6.2 | .1 | .1 | .2 |
| Natural Gas..... | 578,118 | 293,467 | 1,223,978 | 8.7 | 1.7 | .9 | 3.4 |
| Hydroelectric..... | 579,683 | 1,019,082 | 500,203 | -1.6 | 1.7 | 3.1 | 1.4 |
| Other Renewable..... | 186,369 | 191,912 | 152,742 | -2.2 | .6 | .6 | .4 |
| Total Utility..... | 32,920,738 | 32,228,605 | 35,138,801 | .7 | 99.0 | 97.8 | 98.0 |
| Coal..... | W | W | 474,966 | W | W | W | 1.3 |
| Petroleum..... | W | W | 38 | W | W | W | .0 |
| Natural Gas..... | W | W | 222,100 | W | W | W | .6 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 8,204 | W | W | W | .0 |
| Other Renewable..... | W | W | 9,642 | W | W | W | .0 |
| Total Nonutility..... | 316,401 | 723,255 | 714,950 | 9.5 | 1.0 | 2.2 | 2.0 |
| Coal..... | W | W | 33,679,306 | W | W | W | 93.9 |
| Petroleum..... | W | W | 57,576 | W | W | W | .2 |
| Natural Gas..... | W | W | 1,446,078 | W | W | W | 4.0 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 508,407 | W | W | W | 1.4 |
| Other Renewable..... | W | W | 162,384 | W | W | W | .5 |
| Total Industry..... | 33,237,139 | 32,951,860 | 35,853,751 | .8 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|---------|--|
| Utah | | | | |
| Coal (2001 cents per million Btu) | 138.1 | 112.3 | 112.3 | -2.3 |
| Average heat value (Btu per pound) | 11,384 | 11,513 | 11,559 | .2 |
| Average sulfur Content(percent) | .5 | .5 | .5 | .4 |
| Petroleum (2001 cents per million Btu) | 552.6 | 607.1 | 634.5 | 1.5 |
| Average heat value (Btu per gallon) | 140,000 | 139,571 | 139,732 | * |
| Gas (2001 cents per million Btu) | 199.2 | 187.6 | 463.6 | 9.8 |
| Average heat value (Btu per cubic foot) | 1073.7 | 1021.0 | 1052.7 | -2 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Utah | | | | |
| Sulfur Dioxide | | | | |
| Coal | 30 | 32 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | * | * | NA | NA |
| Other | 0 | 0 | NA | NA |
| Total | 30 | 32 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 98 | 76 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 5 | 9 | NA | NA |
| Other | 0 | 0 | NA | NA |
| Total | 104 | 86 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 33,079 | 33,044 | 35,561 | 0.8 |
| Petroleum | 29 | 44 | 51 | 6.4 |
| Gas | 562 | 487 | 1,064 | 7.4 |
| Other | 0 | 0 | 2 | .0 |
| Total | 33,670 | 33,575 | 36,678 | 1.0 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Utah | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 4,505 | 5,481 | 6,693 | 4.5 | 27.2 | 27.6 | 28.8 |
| Commercial..... | 4,956 | 5,911 | 8,262 | 5.8 | 29.9 | 29.8 | 35.6 |
| Industrial..... | 6,212 | 7,660 | 7,411 | 2.0 | 37.5 | 38.6 | 31.9 |
| Other..... | 894 | 806 | 851 | -5 | 5.4 | 4.1 | 3.7 |
| Total..... | 16,567 | 19,858 | 23,217 | 3.8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 358 | 400 | 450 | 2.6 | 35.8 | 36.3 | 37.1 |
| Commercial..... | 338 | 365 | 461 | 3.5 | 33.7 | 33.2 | 38.0 |
| Industrial..... | 261 | 297 | 262 | * | 26.0 | 27.0 | 21.6 |
| Other..... | 45 | 38 | 39 | -1.6 | 4.4 | 3.4 | 3.2 |
| Total..... | 1,001 | 1,099 | 1,211 | 2.1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.95 | 7.29 | 6.72 | -1.8 | NA | NA | NA |
| Commercial..... | 6.81 | 6.18 | 5.58 | -2.2 | NA | NA | NA |
| Industrial..... | 4.20 | 3.87 | 3.53 | -1.9 | NA | NA | NA |
| Other..... | 4.98 | 4.66 | 4.53 | -1.0 | NA | NA | NA |
| Total..... | 6.04 | 5.54 | 5.21 | -1.6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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 | 870,731 | 0 | 2,130 | 0 | 872,861 |
| Retail Sales (thousand megawatthours)..... | 0 | 23,185 | 0 | 32 | 0 | 23,217 |
| Percentage of Retail Sales..... | .00 | 99.86 | .00 | .14 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 0 | 1,209 | 0 | 2 | 0 | 1,211 |
| Percentage of Revenue..... | .00 | 99.82 | .00 | .18 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | .00 | 5.21 | .00 | 6.63 | 0 | 5.21 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|-----------|-----------|
| Vermont | | |
| North American Electric Reliability Council (NERC) Region(s) | | NPCC |
| Primary Energy Source | | Nuclear |
| Net Summer Capability (megawatts)..... | 970 | 50 |
| Utility..... | 262 | 45 |
| Nonutility..... | 708 | 40 |
| Net Generation (megawatthours) | 5,480,612 | 50 |
| Utility..... | 4,734,002 | 42 |
| Nonutility..... | 746,610 | 44 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 47 | 51 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 5 | 51 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 5,617,438 | 50 |
| Utility Retail Electricity Sales (megawatthours) | 5,585,446 | 49 |
| ESP Retail Electricity Sales (megawatthours)..... | 31,992 | 18 |
| Direct Use (megawatthours)..... | 18,368 | 43 |
| Average Retail Price (cents/kWh)..... | 10.80 | 6 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Berlin 5 | Petroleum | Green Mountain Power Corp | 40 |
| 4. Bellows FLS | Hydro | U S Gen New England Inc | 39 |
| 5. Wilder..... | Hydro | U S Gen New England Inc | 36 |
| 6. Harriman | Hydro | U S Gen New England Inc | 32 |
| 7. Sheldon Springs Hydro | Hydro | Missisquoi Associates | 24 |
| 8. Burlington GT..... | Petroleum | Burlington City of | 20 |
| 9. Ryegate..... | Other | Ryegate Associates | 20 |
| 10. Vernon | Hydro | U S Gen New England Inc | 19 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|------------|------------|--------|
| Vermont | | | | | |
| A. Central Vermont Pub Serv Corp..... | 2,161,059 | 897,220 | 853,242 | 405,099 | 5,498 |
| B. Green Mountain Power Corp | 1,953,154 | 549,151 | 718,969 | 683,004 | 2,030 |
| C. City of Burlington..... | 332,802 | 89,786 | 176,117 | 63,889 | 3,010 |
| D. Citizens Communications Co..... | 305,446 | 110,925 | 70,383 | 114,352 | 9,786 |
| E. Vermont Marble Pwr Div of OMYA..... | 209,703 | 5,811 | 3,180 | 200,614 | 98 |
| Total | 4,962,164 | 1,652,893 | 1,821,891 | 1,466,958 | 20,422 |
| Percentage of Utility Sales..... | 88 | 82 | 93 | 91 | 49 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|------------|--|-----------------------|-----------------------|-----------------------|
| Vermont | | | | | | | |
| Petroleum..... | 120 | 119 | 111 | -0.9 | 10.4 | 10.2 | 11.4 |
| Nuclear..... | 496 | 496 | 0 | -100.0 | 42.8 | 42.6 | .0 |
| Hydroelectric..... | 430 | 427 | 99 | -15.0 | 37.2 | 36.7 | 10.2 |
| Other Renewables..... | 47 | 50 | 52 | 1.2 | 4.1 | 4.3 | 5.4 |
| Total Utility..... | 1,094 | 1,092 | 262 | -14.7 | 94.5 | 93.8 | 27.0 |
| Nuclear..... | 0 | 0 | 506 | .0 | .0 | .0 | 52.2 |
| Hydroelectric..... | W | W | 178 | W | W | W | 18.3 |
| Other Renewables..... | W | W | 24 | W | W | W | 2.4 |
| Total Nonutility..... | 64 | 73 | 708 | 30.6 | 5.5 | 6.2 | 73.0 |
| Petroleum..... | 120 | 119 | 111 | -.9 | 10.4 | 10.2 | 11.4 |
| Nuclear..... | 496 | 496 | 506 | .2 | 42.8 | 42.6 | 52.2 |
| Hydroelectric..... | W | W | 277 | W | W | W | 28.6 |
| Other Renewables..... | W | W | 76 | W | W | W | 7.9 |
| Total Industry..... | 1,158 | 1,165 | 970 | -2.0 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|------------------|------------------|------------------|--|-----------------------|-----------------------|-----------------------|
| Vermont | | | | | | | |
| Petroleum..... | 2,581 | 3,428 | 31,740 | 32.2 | 0.1 | 0.1 | 0.6 |
| Natural Gas..... | 63,120 | 97 | 11,000 | -17.6 | 1.3 | .0 | .2 |
| Nuclear..... | 3,734,594 | 3,798,790 | 4,171,120 | 1.2 | 76.7 | 71.0 | 76.1 |
| Hydroelectric..... | 805,858 | 1,066,748 | 330,674 | -9.4 | 16.5 | 19.9 | 6.0 |
| Other Renewable..... | 91,892 | 135,156 | 189,468 | 8.4 | 1.9 | 2.5 | 3.5 |
| Total Utility..... | 4,698,045 | 5,004,219 | 4,734,002 | .1 | 96.5 | 93.5 | 86.4 |
| Petroleum..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | 115,640 | 164,636 | 553,537 | 19.0 | 2.4 | 3.1 | 10.1 |
| Other Renewable..... | W | W | 193,073 | W | W | W | 3.5 |
| Total Nonutility..... | 172,098 | 345,900 | 746,610 | 17.7 | 3.5 | 6.5 | 13.6 |
| Petroleum..... | W | W | 31,740 | W | W | W | .6 |
| Natural Gas..... | 63,120 | 97 | 11,000 | -17.6 | 1.3 | .0 | .2 |
| Nuclear..... | 3,734,594 | 3,798,790 | 4,171,120 | 1.2 | 76.7 | 71.0 | 76.1 |
| Hydroelectric..... | 921,498 | 1,231,384 | 884,211 | -.5 | 18.9 | 23.0 | 16.1 |
| Other Renewable..... | W | W | 382,541 | W | W | W | 7.0 |
| Total Industry..... | 4,870,143 | 5,350,119 | 5,480,612 | 1.3 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|-------|---------|--------|--|
| Vermont | | | | |
| Petroleum (2001 cents per million Btu) | 0.0 | 549.1 | 0.0 | 0.0 |
| Average heat value (Btu per gallon) | 0 | 133,377 | 0 | .0 |
| Gas (2001 cents per million Btu) | 231.0 | 332.8 | 477.6 | 8.4 |
| Average heat value (Btu per cubic foot) | 988.0 | 1014.6 | 1012.0 | .3 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|------|------|------|--|
| Vermont | | | | |
| Sulfur Dioxide | | | | |
| Petroleum | 0 | 0 | NA | NA |
| Other | * | * | NA | NA |
| Total | * | * | NA | NA |
| Nitrogen Oxide | | | | |
| Petroleum | 0 | 0 | NA | NA |
| Gas | * | 0 | NA | NA |
| Other | * | * | NA | NA |
| Total | * | * | NA | NA |
| Carbon Dioxide | | | | |
| Petroleum | 4 | 8 | 41 | 29.6 |
| Gas | 46 | 1 | 7 | -19.1 |
| Total | 50 | 9 | 47 | -6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-------|-------|-------|--|-----------------------|-----------------------|-----------------------|
| Vermont | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 1,927 | 2,006 | 2,009 | 0.5 | 39.0 | 38.3 | 35.8 |
| Commercial..... | 1,527 | 1,649 | 1,958 | 2.8 | 30.9 | 31.5 | 34.8 |
| Industrial..... | 1,440 | 1,537 | 1,608 | 1.2 | 29.1 | 29.3 | 28.6 |
| Other..... | 47 | 48 | 42 | -1.1 | .9 | .9 | .8 |
| Total..... | 4,941 | 5,239 | 5,617 | 1.4 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 210 | 231 | 255 | 2.1 | 42.2 | 43.2 | 42.0 |
| Commercial..... | 161 | 175 | 217 | 3.4 | 32.3 | 32.8 | 35.8 |
| Industrial..... | 120 | 122 | 127 | .6 | 24.1 | 22.8 | 20.9 |
| Other..... | 7 | 6 | 8 | 1.6 | 1.4 | 1.2 | 1.3 |
| Total..... | 498 | 535 | 607 | 2.2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 10.91 | 11.52 | 12.67 | 1.7 | NA | NA | NA |
| Commercial..... | 10.54 | 10.63 | 11.10 | .6 | NA | NA | NA |
| Industrial..... | 8.33 | 7.94 | 7.89 | -.6 | NA | NA | NA |
| Other..... | 14.69 | 13.58 | 18.85 | 2.8 | NA | NA | NA |
| Total..... | 10.08 | 10.21 | 10.80 | .8 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|--------|---------|-------------|--------------------------|---------|
| Vermont | | | | | | |
| Number of Entities..... | 4 | 17 | 0 | 2 | 1 | 24 |
| Number of Retail Customers..... | 232,997 | 71,994 | 0 | 25,291 | 10 | 330,292 |
| Retail Sales (thousand megawatthours)..... | 4,330 | 1,054 | 0 | 201 | 32 | 5,617 |
| Percentage of Retail Sales..... | 77.08 | 18.77 | .00 | 3.59 | .57 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 472 | 106 | 0 | 27 | 2 | 607 |
| Percentage of Revenue..... | 77.74 | 17.42 | .00 | 4.48 | .36 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 10.89 | 10.02 | .00 | 13.50 | 0 | 10.80 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|----------------|
| Virginia | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR/SERC/MAAC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 20,086 | 16 |
| Utility..... | 15,762 | 14 |
| Nonutility..... | 4,325 | 14 |
| Net Generation (megawatthours) | 74,104,744 | 21 |
| Utility..... | 62,135,492 | 16 |
| Nonutility..... | 11,969,252 | 17 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide | NA | NA |
| Carbon Dioxide | 45,967 | 22 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 1,161 | 24 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 96,122,996 | 12 |
| Utility Retail Electricity Sales (megawatthours) | 95,679,255 | 12 |
| ESP Retail Electricity Sales (megawatthours)..... | 443,741 | 15 |
| Direct Use (megawatthours)..... | 1,601,665 | 20 |
| Average Retail Price (cents/kWh)..... | 6.19 | 31 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|--------------------------------|----------------------|------------------------------|---------------------|
| Virginia | | | |
| 1. Bath County | Hydro | Virginia Electric & Power Co | 2,100 |
| 2. North Anna | Hydro, Nuclear | Virginia Electric & Power Co | 1,843 |
| 3. Chesterfield | Petroleum, Gas, Coal | Virginia Electric & Power Co | 1,626 |
| 4. Surry | Nuclear | Virginia Electric & Power Co | 1,625 |
| 5. Possum Point | Petroleum, Coal | Virginia Electric & Power Co | 1,329 |
| 6. Yorktown | Gas, Coal, Petroleum | Virginia Electric & Power Co | 1,144 |
| 7. Clover | Petroleum, Coal | Virginia Electric & Power Co | 882 |
| 8. Doswell Combined Cycl | Other | Doswell Ltd Partnership | 835 |
| 9. Chesapeake..... | Petroleum, Coal | Virginia Electric & Power Co | 739 |
| 10. Clinch River | Petroleum, Coal | Appalachian Power Co | 690 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--------------------------------------|-------------|-------------|------------|------------|-----------|
| Virginia | | | | | |
| A. Virginia Electric & Power Co..... | 64,272,784 | 23,171,612 | 22,646,217 | 9,357,235 | 9,097,720 |
| B. Appalachian Power Company | 15,069,461 | 5,743,303 | 2,940,867 | 5,670,328 | 714,963 |
| C. The Potomac Edison Company | 2,554,824 | 1,011,088 | 543,167 | 996,484 | 4,085 |
| D. Northern Virginia Elec Coop | 2,239,000 | 1,353,000 | 602,000 | 281,000 | 3,000 |
| E. Rappahannock Electric Coop..... | 2,090,659 | 1,068,980 | 100,746 | 915,094 | 5,839 |
| Total | 86,226,728 | 32,347,983 | 26,832,997 | 17,220,141 | 9,825,607 |
| Percentage of Utility Sales..... | 90 | 87 | 92 | 88 | 95 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Virginia | | | | | | | |
| Coal..... | 4,215 | 5,099 | 4,784 | 1.4 | 25.3 | 27.7 | 23.8 |
| Petroleum..... | 1,173 | 2,025 | 2,014 | 6.2 | 7.0 | 11.0 | 10.0 |
| Natural Gas..... | 375 | 144 | 1,398 | 15.7 | 2.2 | .8 | 7.0 |
| Dual Fired..... | 1,582 | 1,017 | 1,016 | -4.8 | 9.5 | 5.5 | 5.1 |
| Nuclear..... | 3,319 | 3,392 | 3,467 | .5 | 19.9 | 18.4 | 17.3 |
| Hydroelectric..... | 3,108 | 3,130 | 3,083 | -1 | 18.6 | 17.0 | 15.3 |
| Other Renewables..... | * | * | 0 | -100.0 | .0 | .0 | .0 |
| Total Utility..... | 13,772 | 14,806 | 15,761 | 1.5 | 82.5 | 80.4 | 78.5 |
| Coal..... | 913 | 1,119 | 1,353 | 4.5 | 5.5 | 6.1 | 6.7 |
| Petroleum..... | W | W | 358 | W | W | W | 1.8 |
| Natural Gas..... | 72 | 164 | 682 | 28.4 | .4 | .9 | 3.4 |
| Dual Fired..... | 1,405 | 1,650 | 1,342 | -5 | 8.4 | 9.0 | 6.7 |
| Hydroelectric..... | W | W | 20 | W | W | W | .1 |
| Other Renewables..... | 502 | 646 | 570 | 1.4 | 3.0 | 3.5 | 2.8 |
| Total Nonutility..... | 2,913 | 3,609 | 4,325 | 4.5 | 17.5 | 19.6 | 21.5 |
| Coal..... | 5,128 | 6,218 | 6,137 | 2.0 | 30.7 | 33.8 | 30.6 |
| Petroleum..... | W | W | 2,372 | W | W | W | 11.8 |
| Natural Gas..... | 447 | 308 | 2,080 | 18.6 | 2.7 | 1.7 | 10.4 |
| Dual Fired..... | 2,988 | 2,667 | 2,358 | -2.6 | 17.9 | 14.5 | 11.7 |
| Nuclear..... | 3,319 | 3,392 | 3,467 | .5 | 19.9 | 18.4 | 17.3 |
| Hydroelectric..... | W | W | 3,103 | W | W | W | 15.4 |
| Other Renewables..... | 502 | 646 | 570 | 1.4 | 3.0 | 3.5 | 2.8 |
| Total Industry..... | 16,685 | 18,416 | 20,086 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Virginia | | | | | | | |
| Coal..... | 22,676,018 | 27,930,011 | 30,657,436 | 3.4 | 40.2 | 41.8 | 41.4 |
| Petroleum..... | 1,422,824 | 683,363 | 4,854,800 | 14.6 | 2.5 | 1.0 | 6.6 |
| Natural Gas..... | 1,177,489 | 1,123,697 | 2,130,640 | 6.8 | 2.1 | 1.7 | 2.9 |
| Nuclear..... | 23,334,340 | 26,286,283 | 25,759,130 | 1.1 | 41.4 | 39.3 | 34.8 |
| Hydroelectric..... | 352,911 | 509,564 | -1,266,514 | 0 | .6 | .8 | -1.7 |
| Other Renewable..... | 11 | 0 | 0 | -100.0 | .0 | .0 | .0 |
| Total Utility..... | 48,963,593 | 56,532,918 | 62,135,492 | 2.7 | 86.9 | 84.5 | 83.8 |
| Coal..... | 3,549,016 | 4,551,836 | 7,112,480 | 8.0 | 6.3 | 6.8 | 9.6 |
| Petroleum..... | 430,041 | 591,883 | 606,805 | 3.9 | .8 | .9 | .8 |
| Natural Gas..... | 1,298,200 | 2,809,049 | 2,065,429 | 5.3 | 2.3 | 4.2 | 2.8 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | 72,131 | 89,335 | 40,659 | -6.2 | .1 | .1 | .1 |
| Other Renewable..... | 2,038,889 | 2,320,035 | 2,143,880 | .6 | 3.6 | 3.5 | 2.9 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 7,388,762 | 10,362,207 | 11,969,252 | 5.5 | 13.1 | 15.5 | 16.2 |
| Coal..... | 26,225,034 | 32,481,847 | 37,769,916 | 4.1 | 46.5 | 48.6 | 51.0 |
| Petroleum..... | 1,852,865 | 1,275,246 | 5,461,605 | 12.8 | 3.3 | 1.9 | 7.4 |
| Natural Gas..... | 2,475,689 | 3,932,746 | 4,196,069 | 6.0 | 4.4 | 5.9 | 5.7 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Nuclear..... | 23,334,340 | 26,286,283 | 25,759,130 | 1.1 | 41.4 | 39.3 | 34.8 |
| Hydroelectric..... | 425,042 | 598,899 | -1,225,855 | 0 | .8 | .9 | -1.7 |
| Other Renewable..... | 2,038,900 | 2,320,035 | 2,143,880 | .6 | 3.6 | 3.5 | 2.9 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 56,352,355 | 66,895,125 | 74,104,744 | 3.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Virginia | | | | |
| Coal (2001 cents per million Btu)..... | 168.2 | 148.6 | 159.3 | -0.6 |
| Average heat value (Btu per pound)..... | 12,830 | 12,597 | 12,643 | -2 |
| Average sulfur Content(percent)..... | 1.0 | 1.0 | 1.0 | -1 |
| Petroleum (2001 cents per million Btu)..... | 282.1 | 303.9 | 356.5 | 2.6 |
| Average heat value (Btu per gallon)..... | 148,882 | 146,989 | 150,331 | .1 |
| Average sulfur Content(percent)..... | 1.0 | 1.3 | 1.1 | 1.1 |
| Gas (2001 cents per million Btu)..... | 270.8 | 295.2 | 438.1 | 5.5 |
| Average heat value (Btu per cubic foot)..... | 1046.2 | 1057.3 | 1034.7 | -1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------|--------|--------|--------|--|
| Virginia | | | | |
| Sulfur Dioxide | | | | |
| Coal | 195 | 213 | NA | NA |
| Petroleum | 8 | 6 | NA | NA |
| Gas..... | 0 | * | NA | NA |
| Other..... | 3 | 4 | NA | NA |
| Total | 206 | 223 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 87 | 117 | NA | NA |
| Petroleum | 2 | 1 | NA | NA |
| Gas..... | 2 | 4 | NA | NA |
| Other..... | 3 | 3 | NA | NA |
| Total | 94 | 125 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 27,067 | 33,668 | 39,321 | 4.2 |
| Petroleum | 1,572 | 1,050 | 4,348 | 12.0 |
| Gas..... | 1,356 | 2,038 | 2,114 | 5.1 |
| Other..... | 177 | 183 | 184 | .4 |
| Total | 30,172 | 36,940 | 45,967 | 4.8 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Virginia | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 29,780 | 34,651 | 37,258 | 2.5 | 38.9 | 39.6 | 38.8 |
| Commercial..... | 21,610 | 24,565 | 29,044 | 3.3 | 28.3 | 28.0 | 30.2 |
| Industrial | 16,714 | 19,021 | 19,469 | 1.7 | 21.9 | 21.7 | 20.3 |
| Other | 8,345 | 9,359 | 10,352 | 2.4 | 10.9 | 10.7 | 10.8 |
| Total | 76,448 | 87,596 | 96,123 | 2.6 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 2,593 | 2,758 | 2,904 | 1.3 | 47.4 | 49.4 | 48.8 |
| Commercial..... | 1,536 | 1,520 | 1,700 | 1.1 | 28.0 | 27.2 | 28.6 |
| Industrial | 816 | 795 | 811 | -.1 | 14.9 | 14.2 | 13.6 |
| Other | 530 | 515 | 535 | .1 | 9.7 | 9.2 | 9.0 |
| Total | 5,476 | 5,588 | 5,951 | .9 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 8.71 | 7.96 | 7.80 | -1.2 | NA | NA | NA |
| Commercial..... | 7.11 | 6.19 | 5.85 | -2.1 | NA | NA | NA |
| Industrial | 4.88 | 4.18 | 4.17 | -1.8 | NA | NA | NA |
| Other | 6.35 | 5.51 | 5.16 | -2.3 | NA | NA | NA |
| Total | 7.16 | 6.38 | 6.19 | -1.6 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| Virginia | | | | | | |
| Number of Entities | 1 | 23 | 0 | 11 | 2 | 37 |
| Number of Retail Customers..... | 482,926 | 2,306,082 | 0 | 370,539 | 21,337 | 3,180,884 |
| Retail Sales (thousand megawatthours)..... | 15,069 | 73,075 | 0 | 7,535 | 444 | 96,123 |
| Percentage of Retail Sales..... | 15.68 | 76.02 | .00 | 7.84 | .46 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 667 | 4,607 | 0 | 657 | 20 | 5,951 |
| Percentage of Revenue | 11.21 | 77.41 | .00 | 11.04 | .34 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 4.42 | 6.30 | .00 | 8.72 | 0 | 6.19 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Washington | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSCC |
| Primary Energy Source | | Hydro |
| Net Summer Capability (megawatts)..... | 26,646 | 10 |
| Utility..... | 24,055 | 6 |
| Nonutility..... | 2,591 | 21 |
| Net Generation (megawatthours) | 83,048,665 | 18 |
| Utility..... | 67,683,216 | 15 |
| Nonutility..... | 15,365,449 | 15 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 15,645 | 39 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 235 | 44 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 79,666,210 | 15 |
| Utility Retail Electricity Sales (megawatthours) | 78,495,247 | 16 |
| ESP Retail Electricity Sales (megawatthours)..... | 1,170,963 | 10 |
| Direct Use (megawatthours)..... | -2,000,661 | 51 |
| Average Retail Price (cents/kWh)..... | 5.26 | 46 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| 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. Centralia | Other | TransAlta Centralia Gen LLC | 1,405 |
| 4. Rocky Reach..... | Hydro | PUD No 1 of Chelan County | 1,279 |
| 5. Columbia..... | 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 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|-----------|
| Washington | | | | | |
| A. Puget Sound Energy, Inc..... | 19,848,309 | 9,435,556 | 7,850,160 | 2,485,043 | 77,550 |
| B. Seattle City Light..... | 8,974,215 | 2,973,916 | 3,724,655 | 1,173,744 | 1,101,900 |
| C. PUD No 1 of Snohomish County | 6,184,545 | 3,215,167 | 2,080,288 | 865,613 | 23,477 |
| D. Avista Corporation..... | 5,028,434 | 2,221,560 | 1,996,177 | 781,399 | 29,298 |
| E. Tacoma Power..... | 4,620,280 | 1,722,952 | 314,687 | 2,004,639 | 578,002 |
| Total | 44,655,783 | 19,569,151 | 15,965,967 | 7,310,438 | 1,810,227 |
| Percentage of Utility Sales..... | 56 | 62 | 67 | 36 | 49 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Washington | | | | | | | |
| Coal..... | 1,360 | 1,390 | 0 | -100.0 | 5.5 | 5.5 | 0.0 |
| Petroleum..... | 173 | 87 | 40 | -15.2 | .7 | .3 | .1 |
| Natural Gas..... | 0 | 0 | 277 | .0 | .0 | .0 | 1.0 |
| Dual Fired..... | 590 | 590 | 803 | 3.5 | 2.4 | 2.3 | 3.0 |
| Nuclear..... | 1,100 | 1,107 | 1,108 | .1 | 4.5 | 4.4 | 4.2 |
| Hydroelectric..... | 20,952 | 21,054 | 21,681 | .4 | 85.0 | 83.4 | 81.4 |
| Other Renewables..... | 46 | 47 | 147 | 13.7 | .2 | .2 | .5 |
| Total Utility..... | 24,221 | 24,276 | 24,055 | -1 | 98.3 | 96.1 | 90.3 |
| Coal..... | W | W | 1,407 | W | W | W | 5.3 |
| Natural Gas..... | 164 | 480 | 428 | 11.2 | .7 | 1.9 | 1.6 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Dual Fired..... | W | W | 299 | W | W | W | 1.1 |
| Hydroelectric..... | 90 | 97 | 86 | -.4 | .4 | .4 | .3 |
| Other Renewables..... | W | W | 370 | W | W | W | 1.4 |
| Total Nonutility..... | 424 | 977 | 2,590 | 22.3 | 1.7 | 3.9 | 9.7 |
| Coal..... | W | W | 1,407 | W | W | W | 5.3 |
| Petroleum..... | 173 | 87 | 40 | -15.2 | .7 | .3 | .1 |
| Natural Gas..... | 164 | 480 | 705 | 17.6 | .7 | 1.9 | 2.6 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Dual Fired..... | W | W | 1,102 | W | W | W | 4.1 |
| Nuclear..... | 1,100 | 1,107 | 1,108 | .1 | 4.5 | 4.4 | 4.2 |
| Hydroelectric..... | 21,042 | 21,151 | 21,767 | .4 | 85.4 | 83.8 | 81.7 |
| Other Renewables..... | W | W | 517 | W | W | W | 1.9 |
| Total Industry..... | 24,645 | 25,252 | 26,645 | .9 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|--------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Washington | | | | | | | |
| Coal..... | 9,625,252 | 8,042,462 | 0 | -100.0 | 11.1 | 6.8 | 0.0 |
| Petroleum..... | 5,624 | 8,183 | 179,120 | 46.9 | .0 | .0 | .2 |
| Natural Gas..... | 463,951 | 528,958 | 4,378,072 | 28.3 | .5 | .4 | 5.3 |
| Nuclear..... | 5,692,379 | 5,588,000 | 8,250,429 | 4.2 | 6.6 | 4.7 | 9.9 |
| Hydroelectric..... | 67,967,061 | 98,078,554 | 54,517,234 | -2.4 | 78.6 | 82.7 | 65.6 |
| Other Renewable..... | 360,650 | 360,192 | 358,361 | -.1 | .4 | .3 | .4 |
| Total Utility..... | 84,114,917 | 112,606,349 | 67,683,216 | -2.4 | 97.3 | 94.9 | 81.5 |
| Coal..... | W | W | 9,082,359 | W | W | W | 10.9 |
| Petroleum..... | 20,121 | 179,053 | 141,238 | 24.2 | .0 | .2 | .2 |
| Natural Gas..... | 809,812 | 4,178,309 | 4,996,173 | 22.4 | .9 | 3.5 | 6.0 |
| Other Gases..... | 234,023 | 300,221 | 0 | -100.0 | .3 | .3 | .0 |
| Hydroelectric..... | 357,598 | 439,299 | 216,658 | -5.4 | .4 | .4 | .3 |
| Other Renewable..... | 913,061 | 928,281 | 929,021 | .2 | 1.1 | .8 | 1.1 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 2,367,512 | 6,051,780 | 15,365,449 | 23.1 | 2.7 | 5.1 | 18.5 |
| Coal..... | W | W | 9,082,359 | W | W | W | 10.9 |
| Petroleum..... | 25,745 | 187,236 | 320,358 | 32.3 | .0 | .2 | .4 |
| Natural Gas..... | 1,273,763 | 4,707,267 | 9,374,245 | 24.8 | 1.5 | 4.0 | 11.3 |
| Other Gases..... | 234,023 | 300,221 | 0 | -100.0 | .3 | .3 | .0 |
| Nuclear..... | 5,692,379 | 5,588,000 | 8,250,429 | 4.2 | 6.6 | 4.7 | 9.9 |
| Hydroelectric..... | 68,324,659 | 98,517,853 | 54,733,892 | -2.4 | 79.0 | 83.0 | 65.9 |
| Other Renewable..... | 1,273,711 | 1,288,473 | 1,287,382 | .1 | 1.5 | 1.1 | 1.6 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 86,482,429 | 118,658,129 | 83,048,665 | -.4 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|------|--|
| Washington | | | | |
| Coal (2001 cents per million Btu)..... | 156.7 | 164.5 | 0.0 | -100.0 |
| Average heat value (Btu per pound)..... | 8,189 | 7,936 | 0 | -100.0 |
| Average sulfur Content(percent)..... | .7 | .7 | .0 | -100.0 |
| Petroleum (2001 cents per million Btu)..... | 532.0 | 533.1 | .0 | -100.0 |
| Average heat value (Btu per gallon)..... | 139,926 | 139,932 | 0 | -100.0 |
| Gas (2001 cents per million Btu)..... | 360.2 | 497.6 | .0 | -100.0 |
| Average heat value (Btu per cubic foot)..... | 1050.0 | 1050.0 | .0 | -100.0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-------------------|--------|--------|--------|--|
| Washington | | | | |
| Sulfur Dioxide | | | | |
| Coal | 71 | 79 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas | 0 | * | NA | NA |
| Other | 2 | 2 | NA | NA |
| Total | 73 | 82 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 47 | 22 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 1 | 5 | NA | NA |
| Other | 1 | 1 | NA | NA |
| Total | 49 | 28 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 10,875 | 9,459 | 10,156 | -0.8 |
| Petroleum | 30 | 168 | 278 | 28.3 |
| Gas | 850 | 2,831 | 5,173 | 22.2 |
| Other | 37 | 35 | 38 | .4 |
| Total | 11,791 | 12,492 | 15,645 | 3.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Washington | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential | 28,436 | 32,012 | 31,608 | 1.2 | 31.8 | 36.6 | 39.7 |
| Commercial | 18,727 | 21,446 | 23,841 | 2.7 | 21.0 | 24.5 | 29.9 |
| Industrial | 38,332 | 30,241 | 20,510 | -6.7 | 42.9 | 34.6 | 25.7 |
| Other | 3,825 | 3,713 | 3,707 | -.3 | 4.3 | 4.3 | 4.6 |
| Total | 89,319 | 87,413 | 79,666 | -1.3 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential | 1,446 | 1,689 | 1,802 | 2.5 | 41.4 | 44.0 | 43.0 |
| Commercial | 920 | 1,097 | 1,298 | 3.9 | 26.4 | 28.6 | 31.0 |
| Industrial | 979 | 904 | 919 | -.7 | 28.0 | 23.6 | 21.9 |
| Other | 146 | 149 | 174 | 2.0 | 4.2 | 3.9 | 4.1 |
| Total | 3,491 | 3,839 | 4,193 | 2.1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential | 5.09 | 5.27 | 5.70 | 1.3 | NA | NA | NA |
| Commercial | 4.91 | 5.12 | 5.45 | 1.1 | NA | NA | NA |
| Industrial | 2.55 | 2.99 | 4.48 | 6.4 | NA | NA | NA |
| Other | 3.81 | 4.02 | 4.69 | 2.3 | NA | NA | NA |
| Total | 3.91 | 4.39 | 5.26 | 3.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| Washington | | | | | | |
| Number of Entities | 1 | 50 | 0 | 13 | 4 | 68 |
| Number of Retail Customers..... | 931,968 | 1,758,005 | 0 | 105,244 | 130 | 2,795,347 |
| Retail Sales (thousand megawatthours)..... | 19,848 | 56,082 | 0 | 2,565 | 1,171 | 79,666 |
| Percentage of Retail Sales | 24.91 | 70.40 | .00 | 3.22 | 1.47 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 1,346 | 2,648 | 0 | 127 | 72 | 4,193 |
| Percentage of Revenue | 32.09 | 63.15 | .00 | 3.04 | 1.72 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.78 | 4.72 | .00 | 4.97 | 0 | 5.26 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| West Virginia | | |
| North American Electric Reliability Council (NERC) Region(s) | | ECAR |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 15,817 | 22 |
| Utility..... | 10,188 | 23 |
| Nonutility..... | 5,629 | 11 |
| Net Generation (megawatthours) | 81,836,725 | 19 |
| Utility..... | 51,608,803 | 19 |
| Nonutility..... | 30,227,922 | 10 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 82,082 | 9 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 3,408 | 4 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 27,669,432 | 35 |
| Utility Retail Electricity Sales (megawatthours) | 27,669,432 | 35 |
| Direct Use (megawatthours)..... | 921,255 | 27 |
| Average Retail Price (cents/kWh)..... | 5.07 | 48 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-----------------------|-----------------|--------------------------------|---------------------|
| West Virginia | | | |
| 1. John E Amos | Petroleum, Coal | Appalachian Power Co | 2,900 |
| 2. Harrison..... | Other | Allegheny Energy Supply Co LLC | 1,920 |
| 3. Mitchell | Petroleum, Coal | Ohio Power Co | 1,600 |
| 4. Mt Storm | Petroleum, Coal | Virginia Electric & Power Co | 1,599 |
| 5. Mountaineer | Petroleum, Coal | Appalachian Power Co | 1,300 |
| 6. Pleasants..... | Other | Allegheny Energy Supply Co LLC | 1,260 |
| 7. Fort Martin..... | Other | 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 | Other | Ceredo Generating Station | 457 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---------------------------------------|-------------|-------------|------------|------------|--------|
| West Virginia | | | | | |
| A. Appalachian Power Company | 13,156,308 | 5,073,985 | 3,448,929 | 4,598,315 | 35,079 |
| B. Monongahela Power Company | 9,889,772 | 2,939,992 | 2,270,183 | 4,656,057 | 23,540 |
| C. The Potomac Edison Company | 2,638,818 | 1,258,671 | 626,013 | 749,809 | 4,325 |
| D. Wheeling Power Company..... | 1,734,345 | 394,053 | 373,899 | 960,228 | 6,165 |
| E. Harrison Rural Elec Assn, Inc..... | 56,750 | 47,111 | 4,002 | 3,372 | 2,265 |
| Total | 27,475,993 | 9,713,812 | 6,723,026 | 10,967,781 | 71,374 |
| Percentage of Utility Sales..... | 99 | 99 | 99 | 100 | 92 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| West Virginia | | | | | | | |
| Coal..... | 14,328 | 14,381 | 10,126 | -3.8 | 94.8 | 95.8 | 64.0 |
| Petroleum..... | 12 | 12 | 12 | .0 | .1 | .1 | .1 |
| Hydroelectric..... | 108 | 55 | 50 | -8.2 | .7 | .4 | .3 |
| Total Utility..... | 14,448 | 14,448 | 10,188 | -3.8 | 95.6 | 96.3 | 64.4 |
| Coal..... | 495 | 384 | 4,577 | 28.0 | 3.3 | 2.6 | 28.9 |
| Natural Gas..... | W | W | 764 | W | W | W | 4.8 |
| Other Gases..... | W | W | 95 | W | W | W | .6 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 193 | W | W | W | 1.2 |
| Total Nonutility..... | 671 | 560 | 5,629 | 26.7 | 4.4 | 3.7 | 35.6 |
| Coal..... | 14,823 | 14,765 | 14,703 | -.1 | 98.0 | 98.4 | 93.0 |
| Petroleum..... | 12 | 12 | 12 | .0 | .1 | .1 | .1 |
| Natural Gas..... | W | W | 764 | W | W | W | 4.8 |
| Other Gases..... | W | W | 95 | W | W | W | .6 |
| Dual Fired..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | W | W | 243 | W | W | W | 1.5 |
| Total Industry..... | 15,118 | 15,008 | 15,817 | .5 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| West Virginia | | | | | | | |
| Coal..... | 71,708,390 | 83,257,133 | 51,110,900 | -3.7 | 95.4 | 95.4 | 62.5 |
| Petroleum..... | 182,036 | 203,950 | 256,951 | 3.9 | .2 | .2 | .3 |
| Natural Gas..... | 20,878 | 20,334 | 3,654 | -17.6 | .0 | .0 | .0 |
| Hydroelectric..... | 422,620 | 496,708 | 210,961 | -7.4 | .6 | .6 | .3 |
| Other Renewable..... | 0 | 0 | 26,337 | .0 | .0 | .0 | .0 |
| Total Utility..... | 72,333,924 | 83,978,125 | 51,608,803 | -3.7 | 96.2 | 96.3 | 63.1 |
| Coal..... | 1,644,163 | 1,961,874 | 29,103,507 | 37.6 | 2.2 | 2.2 | 35.6 |
| Petroleum..... | W | W | 21,724 | W | W | W | .0 |
| Natural Gas..... | 99,978 | 160,764 | 272,209 | 11.8 | .1 | .2 | .3 |
| Other Gases..... | 174,182 | 187,423 | 89,500 | -7.1 | .2 | .2 | .1 |
| Hydroelectric..... | W | W | 740,983 | W | W | W | .9 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 2,825,990 | 3,266,264 | 30,227,922 | 30.1 | 3.8 | 3.7 | 36.9 |
| Coal..... | 73,352,553 | 85,219,007 | 80,214,407 | 1.0 | 97.6 | 97.7 | 98.0 |
| Petroleum..... | W | W | 278,675 | W | W | W | .3 |
| Natural Gas..... | 120,856 | 181,098 | 275,863 | 9.6 | .2 | .2 | .3 |
| Other Gases..... | 174,182 | 187,423 | 89,500 | -7.1 | .2 | .2 | .1 |
| Hydroelectric..... | W | W | 951,944 | W | W | W | 1.2 |
| Other Renewable..... | W | W | 26,337 | W | W | W | .0 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 75,159,914 | 87,244,389 | 81,836,725 | 1.0 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| West Virginia | | | | |
| Coal (2001 cents per million Btu) | 168.1 | 130.9 | 125.0 | -3.2 |
| Average heat value (Btu per pound) | 12,524 | 12,378 | 12,123 | -4 |
| Average sulfur Content(percent) | 2.0 | 1.9 | 1.2 | -5.8 |
| Petroleum (2001 cents per million Btu) | 552.3 | 554.2 | 665.7 | 2.1 |
| Average heat value (Btu per gallon)..... | 139,487 | 138,655 | 138,852 | * |
| Gas (2001 cents per million Btu)..... | 402.4 | 313.4 | 646.5 | 5.4 |
| Average heat value (Btu per cubic foot)..... | 1000.0 | 1000.0 | 1000.0 | .0 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| West Virginia | | | | |
| Sulfur Dioxide | | | | |
| Coal | 1,084 | 666 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | * | * | NA | NA |
| Total | 1,084 | 667 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 285 | 315 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas..... | 5 | 7 | NA | NA |
| Other..... | 0 | 0 | NA | NA |
| Total | 291 | 322 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 73,284 | 84,840 | 81,598 | 1.2 |
| Petroleum | 193 | 188 | 197 | .2 |
| Gas..... | 192 | 246 | 287 | 4.6 |
| Total | 73,669 | 85,275 | 82,082 | 1.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| West Virginia | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 8,138 | 9,277 | 9,828 | 2.1 | 34.1 | 35.5 | 35.5 |
| Commercial..... | 5,228 | 5,936 | 6,786 | 2.9 | 21.9 | 22.7 | 24.5 |
| Industrial..... | 10,370 | 10,820 | 10,978 | .6 | 43.5 | 41.4 | 39.7 |
| Other..... | 95 | 94 | 78 | -2.3 | .4 | .4 | .3 |
| Total..... | 23,831 | 26,127 | 27,669 | 1.7 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 573 | 620 | 616 | .8 | 41.7 | 43.4 | 43.9 |
| Commercial..... | 336 | 355 | 369 | 1.0 | 24.5 | 24.9 | 26.3 |
| Industrial..... | 454 | 443 | 410 | -1.1 | 33.1 | 31.0 | 29.3 |
| Other..... | 9 | 9 | 8 | -1.7 | .7 | .6 | .6 |
| Total..... | 1,373 | 1,427 | 1,403 | .2 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.04 | 6.68 | 6.26 | -1.3 | NA | NA | NA |
| Commercial..... | 6.43 | 5.98 | 5.44 | -1.8 | NA | NA | NA |
| Industrial..... | 4.38 | 4.09 | 3.74 | -1.8 | NA | NA | NA |
| Other..... | 9.80 | 9.71 | 10.36 | .6 | NA | NA | NA |
| Total..... | 5.76 | 5.46 | 5.07 | -1.4 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| 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..... | 48,210 | 904,321 | 0 | 5,848 | 0 | 958,379 |
| Retail Sales (thousand megawatthours)..... | 1,826 | 25,787 | 0 | 57 | 0 | 27,669 |
| Percentage of Retail Sales..... | 6.60 | 93.20 | .00 | .21 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 88 | 1,310 | 0 | 5 | 0 | 1,403 |
| Percentage of Revenue..... | 6.26 | 93.39 | .00 | .35 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 4.81 | 5.08 | .00 | 8.56 | 0 | 5.07 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Wisconsin | | |
| North American Electric Reliability Council (NERC) Region(s) | | MAIN/MAPP |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 14,104 | 24 |
| Utility..... | 12,248 | 19 |
| Nonutility..... | 1,857 | 25 |
| Net Generation (megawatthours) | 58,763,433 | 23 |
| Utility..... | 54,959,426 | 18 |
| Nonutility..... | 3,804,007 | 33 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 50,539 | 18 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 930 | 27 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 65,183,501 | 21 |
| Utility Retail Electricity Sales (megawatthours) | 65,183,501 | 21 |
| Direct Use (megawatthours)..... | 2,793,660 | 13 |
| Average Retail Price (cents/kWh)..... | 6.08 | 34 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-------------------------------|------------------------|-------------------------------|---------------------|
| Wisconsin | | | |
| 1. Pleasant Prairie | Petroleum, Gas, Coal | Wisconsin Electric Power Co | 1,214 |
| 2. South Oak Creek | Petroleum, Gas, Coal | Wisconsin Electric Power Co | 1,153 |
| 3. Columbia..... | Petroleum, Coal | Wisconsin Power & Light Co | 1,074 |
| 4. Point Beach..... | Petroleum, Nuclear | Wisconsin Electric Power Co | 1,027 |
| 5. Edgewater..... | Petroleum, Other, Coal | Wisconsin Power & Light Co | 824 |
| 6. Weston | Petroleum, Gas, Coal | Wisconsin Public Service Corp | 557 |
| 7. Kewaunee..... | Nuclear | Wisconsin Public Service Corp | 498 |
| 8. RockGen Energy Center..... | Other | RockGen Energy LLC | 462 |
| 9. Pulliam | Gas, Coal | Wisconsin Public Service Corp | 396 |
| 10. Concord | Petroleum, Gas | Wisconsin Electric Power Co | 376 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|---------|
| Wisconsin | | | | | |
| A. Wisconsin Electric Power Co | 24,379,164 | 7,458,726 | 8,212,805 | 8,539,427 | 168,206 |
| B. Wisconsin Public Service Corp..... | 9,939,110 | 2,802,060 | 3,247,935 | 3,853,582 | 35,533 |
| C. Wisconsin Power & Light Co..... | 9,840,981 | 3,251,376 | 2,081,296 | 4,448,444 | 59,865 |
| D. Northern States Power Company..... | 5,441,307 | 1,727,035 | 1,000,655 | 2,675,967 | 37,650 |
| E. Madison Gas & Electric Company | 2,941,486 | 771,094 | 1,543,866 | 314,448 | 312,078 |
| Total | 52,542,048 | 16,010,291 | 16,086,557 | 19,831,868 | 613,332 |
| Percentage of Utility Sales..... | 81 | 78 | 86 | 78 | 82 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|---------------|---------------|---------------|--|-----------------------|-----------------------|-----------------------|
| Wisconsin | | | | | | | |
| Coal..... | 7,114 | 7,375 | 7,170 | 0.1 | 64.4 | 59.2 | 50.8 |
| Petroleum..... | 785 | 815 | 908 | 1.6 | 7.1 | 6.5 | 6.4 |
| Natural Gas..... | 104 | 80 | 340 | 14.1 | .9 | .6 | 2.4 |
| Dual Fired..... | 480 | 1,581 | 1,798 | 15.8 | 4.3 | 12.7 | 12.7 |
| Nuclear..... | 1,506 | 1,449 | 1,510 | .0 | 13.6 | 11.6 | 10.7 |
| Hydroelectric..... | 443 | 506 | 450 | .2 | 4.0 | 4.1 | 3.2 |
| Other Renewables..... | 106 | 61 | 72 | -4.2 | 1.0 | .5 | .5 |
| Total Utility..... | 10,537 | 11,867 | 12,248 | 1.7 | 95.4 | 95.3 | 86.8 |
| Coal..... | 354 | 403 | 323 | -1.0 | 3.2 | 3.2 | 2.3 |
| Petroleum..... | W | W | 12 | W | W | W | .1 |
| Natural Gas..... | W | W | 291 | W | W | W | 2.1 |
| Dual Fired..... | W | W | 971 | W | W | W | 6.9 |
| Hydroelectric..... | 50 | 52 | 66 | 3.1 | .5 | .4 | .5 |
| Other Renewables..... | W | W | 173 | W | W | W | 1.2 |
| Other..... | 0 | 0 | 21 | .0 | .0 | .0 | .1 |
| Total Nonutility..... | 510 | 581 | 1,856 | 15.4 | 4.6 | 4.7 | 13.2 |
| Coal..... | 7,469 | 7,777 | 7,493 | .0 | 67.6 | 62.5 | 53.1 |
| Petroleum..... | W | W | 919 | W | W | W | 6.5 |
| Natural Gas..... | W | W | 631 | W | W | W | 4.5 |
| Dual Fired..... | W | W | 2,769 | W | W | W | 19.6 |
| Nuclear..... | 1,506 | 1,449 | 1,510 | .0 | 13.6 | 11.6 | 10.7 |
| Hydroelectric..... | 493 | 558 | 516 | .5 | 4.5 | 4.5 | 3.7 |
| Other Renewables..... | W | W | 245 | W | W | W | 1.7 |
| Other..... | 0 | 0 | 21 | .0 | .0 | .0 | .1 |
| Total Industry..... | 11,047 | 12,448 | 14,103 | 2.8 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
 (Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Wisconsin | | | | | | | |
| Coal..... | 32,740,540 | 38,144,842 | 40,185,649 | 2.3 | 67.0 | 70.1 | 68.4 |
| Petroleum..... | 54,332 | 124,088 | 170,443 | 13.5 | .1 | .2 | .3 |
| Natural Gas..... | 188,839 | 540,404 | 868,225 | 18.5 | .4 | 1.0 | 1.5 |
| Nuclear..... | 11,207,185 | 10,121,355 | 11,507,078 | .3 | 22.9 | 18.6 | 19.6 |
| Hydroelectric..... | 2,123,353 | 2,401,860 | 1,887,555 | -1.3 | 4.3 | 4.4 | 3.2 |
| Other Renewable..... | 149,507 | 318,886 | 340,476 | 9.6 | .3 | .6 | .6 |
| Total Utility..... | 46,463,756 | 51,651,435 | 54,959,426 | 1.9 | 95.0 | 94.9 | 93.5 |
| Coal..... | 1,093,402 | 1,124,963 | 1,067,807 | -.3 | 2.2 | 2.1 | 1.8 |
| Petroleum..... | 100,916 | 239,680 | 277,341 | 11.9 | .2 | .4 | .5 |
| Natural Gas..... | W | W | 1,365,739 | W | W | W | 2.3 |
| Hydroelectric..... | 278,252 | 294,154 | 168,690 | -5.4 | .6 | .5 | .3 |
| Other Renewable..... | 766,321 | 805,604 | 924,430 | 2.1 | 1.6 | 1.5 | 1.6 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 2,429,642 | 2,766,304 | 3,804,007 | 5.1 | 5.0 | 5.1 | 6.5 |
| Coal..... | 33,833,942 | 39,269,805 | 41,253,456 | 2.2 | 69.2 | 72.2 | 70.2 |
| Petroleum..... | 155,248 | 363,768 | 447,784 | 12.5 | .3 | .7 | .8 |
| Natural Gas..... | W | W | 2,233,964 | W | W | W | 3.8 |
| Nuclear..... | 11,207,185 | 10,121,355 | 11,507,078 | .3 | 22.9 | 18.6 | 19.6 |
| Hydroelectric..... | 2,401,605 | 2,696,014 | 2,056,245 | -1.7 | 4.9 | 5.0 | 3.5 |
| Other Renewable..... | 915,828 | 1,124,490 | 1,264,906 | 3.7 | 1.9 | 2.1 | 2.2 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 48,893,398 | 54,417,739 | 58,763,433 | 2.1 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| Wisconsin | | | | |
| Coal (2001 cents per million Btu)..... | 152.1 | 111.1 | 104.6 | -4.1 |
| Average heat value (Btu per pound)..... | 9,725 | 9,222 | 9,108 | -.7 |
| Average sulfur Content(percent)..... | .7 | .5 | .4 | -6.9 |
| Petroleum (2001 cents per million Btu)..... | 354.0 | 202.7 | 145.9 | -9.4 |
| Average heat value (Btu per gallon)..... | 357,152 | 511,753 | 617,125 | 6.3 |
| Average sulfur Content(percent)..... | 5.3 | 5.7 | 5.5 | .3 |
| Gas (2001 cents per million Btu)..... | 274.0 | 315.1 | 472.6 | 6.2 |
| Average heat value (Btu per cubic foot)..... | 1009.0 | 1010.2 | 1007.3 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|------------------|--------|--------|--------|--|
| Wisconsin | | | | |
| Sulfur Dioxide | | | | |
| Coal | 275 | 229 | NA | NA |
| Petroleum | 3 | 9 | NA | NA |
| Gas..... | 0 | 0 | NA | NA |
| Other..... | 7 | 3 | NA | NA |
| Total | 284 | 242 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 156 | 112 | NA | NA |
| Petroleum | * | 1 | NA | NA |
| Gas..... | 1 | 1 | NA | NA |
| Other..... | 2 | 2 | NA | NA |
| Total | 159 | 115 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 37,631 | 44,603 | 48,470 | 2.8 |
| Petroleum | 156 | 456 | 583 | 15.8 |
| Gas..... | 295 | 645 | 1,486 | 19.7 |
| Other..... | 1 | 0 | 0 | -100.0 |
| Total | 38,083 | 45,704 | 50,539 | 3.2 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatt-hour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|--|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Wisconsin | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 16,615 | 18,685 | 20,418 | 2.3 | 32.6 | 31.8 | 31.3 |
| Commercial..... | 13,243 | 15,433 | 18,678 | 3.9 | 26.0 | 26.3 | 28.6 |
| Industrial | 20,382 | 23,871 | 25,336 | 2.4 | 40.0 | 40.6 | 38.9 |
| Other | 686 | 755 | 752 | 1.0 | 1.3 | 1.3 | 1.1 |
| Total | 50,925 | 58,744 | 65,184 | 2.8 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 1,309 | 1,346 | 1,612 | 2.3 | 41.1 | 41.6 | 40.7 |
| Commercial..... | 892 | 918 | 1,185 | 3.2 | 28.0 | 28.4 | 29.9 |
| Industrial | 929 | 914 | 1,106 | 1.9 | 29.2 | 28.3 | 27.9 |
| Other | 55 | 54 | 58 | .5 | 1.7 | 1.7 | 1.5 |
| Total | 3,186 | 3,231 | 3,961 | 2.4 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatt-hour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 7.88 | 7.20 | 7.90 | * | NA | NA | NA |
| Commercial..... | 6.74 | 5.95 | 6.34 | -.7 | NA | NA | NA |
| Industrial | 4.56 | 3.83 | 4.37 | -.5 | NA | NA | NA |
| Other | 8.04 | 7.11 | 7.69 | -.5 | NA | NA | NA |
| Total | 6.26 | 5.50 | 6.08 | -.3 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|-----------|---------|-------------|--------------------------|-----------|
| Wisconsin | | | | | | |
| Number of Entities | 8 | 90 | 0 | 20 | 0 | 118 |
| Number of Retail Customers..... | 569,402 | 1,902,752 | 0 | 196,204 | 0 | 2,668,358 |
| Retail Sales (thousand megawatthours)..... | 14,839 | 47,640 | 0 | 2,705 | 0 | 65,184 |
| Percentage of Retail Sales..... | 22.77 | 73.09 | .00 | 4.15 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 884 | 2,872 | 0 | 205 | 0 | 3,961 |
| Percentage of Revenue | 22.32 | 72.50 | .00 | 5.18 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 5.96 | 6.03 | .00 | 7.58 | 0 | 6.08 |

Table 1. 2001 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------|-----------|
| Wyoming | | |
| North American Electric Reliability Council (NERC) Region(s) | | WSSC |
| Primary Energy Source | | Coal |
| Net Summer Capability (megawatts)..... | 6,323 | 36 |
| Utility..... | 6,052 | 29 |
| Nonutility..... | 271 | 46 |
| Net Generation (megawatthours) | 44,776,941 | 31 |
| Utility..... | 43,764,015 | 26 |
| Nonutility..... | 1,012,926 | 43 |
| Emissions (thousand short tons) | | |
| Sulfur Dioxide..... | NA | NA |
| Nitrogen Oxide..... | NA | NA |
| Carbon Dioxide..... | 50,052 | 20 |
| Sulfur Dioxide/sq. mile..... | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA |
| Carbon Dioxide/sq. mile..... | 515 | 34 |
| Utility and ESP Retail Electricity Sales (megawatthours)..... | 12,949,505 | 40 |
| Utility Retail Electricity Sales (megawatthours) | 12,949,505 | 40 |
| Direct Use (megawatthours)..... | 657,501 | 28 |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|---------------------------|----------------------|---------------------------|---------------------|
| Wyoming | | | |
| 1. Jim Bridger | Petroleum, Coal | PacifiCorp | 2,120 |
| 2. Laramie River | Petroleum, Coal | Basin Electric Power Coop | 1,668 |
| 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 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|--------|
| Wyoming | | | | | |
| A. PacifiCorp..... | 7,730,479 | 866,047 | 1,097,771 | 5,694,299 | 72,362 |
| B. Powder River Energy Corp..... | 1,625,536 | 150,560 | 628,010 | 846,062 | 904 |
| C. Cheyenne Light Fuel & Power Co | 894,168 | 218,189 | 330,826 | 341,182 | 3,971 |
| D. High Plains Power, Inc..... | 660,541 | 113,653 | 59,776 | 487,112 | 0 |
| E. Lower Valley Energy Inc | 495,847 | 283,405 | 207,700 | 4,161 | 581 |
| Total | 11,406,571 | 1,631,854 | 2,324,083 | 7,372,816 | 77,818 |
| Percentage of Utility Sales..... | 88 | 76 | 80 | 96 | 41 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|--------------|--------------|--------------|--|-----------------------|-----------------------|-----------------------|
| Wyoming | | | | | | | |
| Coal..... | 5,545 | 5,662 | 5,710 | 0.3 | 93.2 | 93.5 | 90.3 |
| Petroleum..... | 15 | 10 | 5 | -11.9 | .2 | .2 | .1 |
| Natural Gas..... | 0 | 0 | 34 | .0 | .0 | .0 | .5 |
| Hydroelectric..... | 287 | 294 | 297 | .4 | 4.8 | 4.8 | 4.7 |
| Other Renewables..... | 0 | 0 | 6 | .0 | .0 | .0 | .1 |
| Total Utility..... | 5,847 | 5,966 | 6,052 | .4 | 98.3 | 98.5 | 95.7 |
| Coal..... | W | W | 30 | W | W | W | .5 |
| Petroleum..... | W | W | 7 | W | W | W | .1 |
| Natural Gas..... | W | W | 99 | W | W | W | 1.6 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Other Renewables..... | W | W | 135 | W | W | W | 2.1 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Nonutility..... | 99 | 91 | 271 | 11.8 | 1.7 | 1.5 | 4.3 |
| Coal..... | W | W | 5,740 | W | W | W | 90.8 |
| Petroleum..... | W | W | 12 | W | W | W | .2 |
| Natural Gas..... | W | W | 133 | W | W | W | 2.1 |
| Other Gases..... | W | W | 0 | W | W | W | .0 |
| Hydroelectric..... | 287 | 294 | 297 | .4 | 4.8 | 4.8 | 4.7 |
| Other Renewables..... | W | W | 141 | W | W | W | 2.2 |
| Other..... | W | W | 0 | W | W | W | .0 |
| Total Industry..... | 5,947 | 6,057 | 6,323 | .7 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|-------------------|-------------------|-------------------|--|-----------------------|-----------------------|-----------------------|
| Wyoming | | | | | | | |
| Coal..... | 41,153,537 | 39,551,555 | 42,560,578 | 0.4 | 96.9 | 95.4 | 95.1 |
| Petroleum..... | 54,839 | 59,443 | 33,744 | -5.3 | .1 | .1 | .1 |
| Natural Gas..... | 8,336 | 8,836 | 274,383 | 47.4 | .0 | .0 | .6 |
| Hydroelectric..... | 635,640 | 1,231,797 | 879,111 | 3.7 | 1.5 | 3.0 | 2.0 |
| Other Renewable..... | 0 | 0 | 16,199 | .0 | .0 | .0 | .0 |
| Total Utility..... | 41,852,352 | 40,851,631 | 43,764,015 | .5 | 98.5 | 98.5 | 97.7 |
| Coal..... | W | W | 228,732 | W | W | W | .5 |
| Petroleum..... | W | W | 2,353 | W | W | W | .0 |
| Natural Gas..... | W | W | 317,459 | W | W | W | .7 |
| Other Gases..... | W | W | 7,510 | W | W | W | .0 |
| Other Renewable..... | W | W | 348,963 | W | W | W | .8 |
| Other..... | W | W | 107,909 | W | W | W | .2 |
| Total Nonutility..... | 621,542 | 620,365 | 1,012,926 | 5.6 | 1.5 | 1.5 | 2.3 |
| Coal..... | W | W | 42,789,310 | W | W | W | 95.6 |
| Petroleum..... | W | W | 36,097 | W | W | W | .1 |
| Natural Gas..... | W | W | 591,842 | W | W | W | 1.3 |
| Other Gases..... | W | W | 7,510 | W | W | W | .0 |
| Hydroelectric..... | 635,640 | 1,231,797 | 879,111 | 3.7 | 1.5 | 3.0 | 2.0 |
| Other Renewable..... | W | W | 365,162 | W | W | W | .8 |
| Other..... | W | W | 107,909 | W | W | W | .2 |
| Total Industry..... | 42,473,894 | 41,471,996 | 44,776,941 | .6 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|---|---------|---------|---------|--|
| Wyoming | | | | |
| Coal (2001 cents per million Btu) | 86.6 | 86.0 | 76.7 | -1.3 |
| Average heat value (Btu per pound) | 8,840 | 8,716 | 8,833 | .0 |
| Average sulfur Content(percent) | .5 | .5 | .5 | -.8 |
| Petroleum (2001 cents per million Btu) | 547.1 | 571.9 | 707.2 | 2.9 |
| Average heat value (Btu per gallon) | 139,150 | 139,173 | 139,291 | * |
| Gas (2001 cents per million Btu) | 365.4 | 1269.6 | 381.8 | .5 |
| Average heat value (Btu per cubic foot) | 1038.9 | 1039.5 | 1049.4 | .1 |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|-----------------------|--------|--------|--------|--|
| Wyoming | | | | |
| Sulfur Dioxide | | | | |
| Coal | 80 | 103 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | 0 | 0 | NA | NA |
| Other | * | * | NA | NA |
| Total | 80 | 103 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 178 | 109 | NA | NA |
| Petroleum | * | * | NA | NA |
| Gas | * | 1 | NA | NA |
| Other | 0 | 0 | NA | NA |
| Total | 178 | 110 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 47,323 | 45,403 | 49,631 | 0.5 |
| Petroleum | 49 | 54 | 34 | -4.0 |
| Gas | 207 | 216 | 388 | 7.2 |
| Total | 47,579 | 45,673 | 50,052 | .6 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Wyoming | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 1,763 | 2,022 | 2,146 | 2.2 | 15.1 | 17.6 | 16.6 |
| Commercial..... | 2,350 | 2,425 | 2,915 | 2.4 | 20.1 | 21.1 | 22.5 |
| Industrial..... | 7,442 | 6,891 | 7,700 | .4 | 63.6 | 60.0 | 59.5 |
| Other..... | 146 | 138 | 189 | 2.9 | 1.3 | 1.2 | 1.5 |
| Total..... | 11,700 | 11,475 | 12,950 | 1.1 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 122 | 130 | 145 | 1.9 | 21.4 | 25.0 | 25.2 |
| Commercial..... | 138 | 129 | 158 | 1.5 | 24.3 | 24.9 | 27.3 |
| Industrial..... | 299 | 249 | 264 | -1.3 | 52.4 | 48.0 | 45.8 |
| Other..... | 11 | 10 | 10 | -1.2 | 1.9 | 2.0 | 1.7 |
| Total..... | 570 | 518 | 577 | .1 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 6.94 | 6.42 | 6.77 | -.3 | NA | NA | NA |
| Commercial..... | 5.89 | 5.33 | 5.41 | -.9 | NA | NA | NA |
| Industrial..... | 4.02 | 3.61 | 3.43 | -1.7 | NA | NA | NA |
| Other..... | 7.30 | 7.56 | 5.07 | -4.0 | NA | NA | NA |
| Total..... | 4.87 | 4.52 | 4.46 | -1.0 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|---|----------------|---------|---------|-------------|--------------------------|---------|
| Wyoming | | | | | | |
| Number of Entities..... | 1 | 29 | 0 | 5 | 0 | 35 |
| Number of Retail Customers..... | 36,125 | 223,695 | 0 | 21,361 | 0 | 281,181 |
| Retail Sales (thousand megawatthours)..... | 894 | 11,170 | 0 | 886 | 0 | 12,950 |
| Percentage of Retail Sales..... | 6.91 | 86.26 | .00 | 6.84 | .00 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars)..... | 57 | 477 | 0 | 44 | 0 | 577 |
| Percentage of Revenue..... | 9.86 | 82.58 | .00 | 7.56 | .00 | 100.00 |
| Revenue per Kilowatthour (cents/kWh) (2001 dollars) | 6.36 | 4.27 | .00 | 4.93 | 0 | 4.46 |

Table 1. 2001 Summary Statistics

| Item | Value | Highest | Lowest |
|--|---------------|--------------|----------------------|
| United States | | | |
| Primary Energy Source..... | Coal | | |
| Net Summer Capability (megawatts) | 848,254 | Texas | District of Columbia |
| Utility..... | 549,920 | Texas | Rhode Island |
| Nonutility..... | 298,334 | Texas | Nebraska |
| Net Generation (megawatthours)..... | 3,736,643,659 | Texas | District of Columbia |
| Utility..... | 2,629,945,673 | Texas | Maryland |
| Nonutility..... | 1,106,697,986 | Pennsylvania | Nebraska |
| Emissions (thousand short tons) | | | |
| Sulfur Dioxide | NA | NA | NA |
| Nitrogen Oxide | NA | NA | NA |
| Carbon Dioxide | 2,518,819 | Texas | Vermont |
| Sulfur Dioxide/sq. mile..... | NA | NA | NA |
| Nitrogen Oxide/sq. mile..... | NA | NA | NA |
| Carbon Dioxide/sq. mile..... | 712 | Indiana | Vermont |
| Utility and Energy Service Providers (megawatthours)..... | 3,369,781,529 | Texas | Alaska |
| Utility Retail Electricity Sales (megawatthours)..... | 3,224,826,813 | Texas | Maine |
| Energy Service Providers Electricity Sales (megawatthours) | 144,954,716 | California | New Hampshire |
| Direct Use (megawatthours)..... | 174,045,387 | Texas | Washington |
| Utility Average Retail Price (cents/kWh)..... | 7.32 | Hawaii | Kentucky |

Table 2. Ten Largest Plants by Generating Capability, 2001

| Plant | Energy Sources | Operating Company | Net Capability (MW) |
|-----------------------|--------------------------|----------------------------|---------------------|
| United States | | | |
| 1. Grand Coulee..... | Hydro | U S Bureau of Reclamation | 7,079 |
| 2. Palo Verde | Nuclear | Arizona Public Service Co | 3,733 |
| 3. W A Parish | Gas, Coal | Reliant Energy HL&P | 3,654 |
| 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 | 3,136 |
| 8. Gibson..... | Petroleum, Coal | PSI Energy Inc | 3,131 |
| 9. Monroe..... | Petroleum, Coal | Detroit Edison Co | 3,014 |
| 10. John E Amos..... | Petroleum, Coal | Appalachian Power Co | 2,900 |

Table 3. Top Five Utilities Ranked by Retail Sales, 2001
(Megawatthours)

| Utility | All Sectors | Residential | Commercial | Industrial | Other |
|--|-------------|-------------|-------------|------------|------------|
| United States | | | | | |
| A. TXU Electric Company..... | 102,526,131 | 38,624,358 | 31,867,640 | 25,040,974 | 6,993,159 |
| B. Florida Power & Light Company | 90,495,128 | 47,737,017 | 38,079,744 | 4,103,798 | 574,569 |
| C. Commonwealth Edison Company | 76,917,652 | 25,281,880 | 26,714,632 | 16,055,125 | 8,866,015 |
| D. Duke Energy Corporation..... | 72,976,963 | 22,713,966 | 23,408,334 | 26,576,486 | 278,177 |
| E. Georgia Power Company..... | 72,544,819 | 20,119,080 | 26,493,255 | 25,349,477 | 583,007 |
| Total | 415,460,693 | 154,476,301 | 146,563,605 | 97,125,860 | 17,294,927 |

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1992, 1996, and 2001
(Megawatts)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|----------------|----------------|----------------|--|-----------------------|-----------------------|-----------------------|
| United States | | | | | | | |
| Coal..... | 300,385 | 302,420 | 244,451 | -2.3 | 40.2 | 39.0 | 28.8 |
| Petroleum..... | 44,330 | 42,090 | 24,150 | -6.5 | 5.9 | 5.4 | 2.8 |
| Natural Gas..... | 47,599 | 52,527 | 35,117 | -3.3 | 6.4 | 6.8 | 4.1 |
| Other Gases..... | 692 | 63 | 57 | -24.3 | .1 | .0 | .0 |
| Dual Fired..... | 107,485 | 115,740 | 92,030 | -1.7 | 14.4 | 14.9 | 10.8 |
| Nuclear..... | 98,985 | 100,784 | 63,060 | -4.9 | 13.3 | 13.0 | 7.4 |
| Hydroelectric..... | 93,375 | 94,239 | 90,065 | -.4 | 12.5 | 12.1 | 10.6 |
| Other Renewables..... | 2,207 | 2,079 | 979 | -8.6 | .3 | .3 | .1 |
| Other..... | 0 | 0 | 13 | .0 | .0 | .0 | .0 |
| Total Utility..... | 695,059 | 709,942 | 549,920 | -2.6 | 93.1 | 91.5 | 64.8 |
| Coal..... | 8,986 | 10,962 | 69,780 | 25.6 | 1.2 | 1.4 | 8.2 |
| Petroleum..... | 1,312 | 1,495 | 15,564 | 31.6 | .2 | .2 | 1.8 |
| Natural Gas..... | 13,137 | 21,971 | 90,682 | 23.9 | 1.8 | 2.8 | 10.7 |
| Other Gases..... | 1,378 | 1,602 | 1,614 | 1.8 | .2 | .2 | .2 |
| Dual Fired..... | 11,428 | 12,829 | 61,453 | 20.6 | 1.5 | 1.7 | 7.2 |
| Nuclear..... | 0 | 0 | 35,099 | .0 | .0 | .0 | 4.1 |
| Hydroelectric..... | 2,587 | 3,308 | 8,515 | 14.2 | .3 | .4 | 1.0 |
| Other Renewables..... | 12,073 | 13,230 | 15,201 | 2.6 | 1.6 | 1.7 | 1.8 |
| Other..... | 545 | 550 | 427 | -2.7 | .1 | .1 | .1 |
| Total Nonutility..... | 51,447 | 65,948 | 298,334 | 21.6 | 6.9 | 8.5 | 35.2 |
| Coal..... | 309,372 | 313,382 | 314,230 | .2 | 41.4 | 40.4 | 37.0 |
| Petroleum..... | 45,642 | 43,585 | 39,714 | -1.5 | 6.1 | 5.6 | 4.7 |
| Natural Gas..... | 60,736 | 74,498 | 125,798 | 8.4 | 8.1 | 9.6 | 14.8 |
| Other Gases..... | 2,069 | 1,664 | 1,670 | -2.4 | .3 | .2 | .2 |
| Dual Fired..... | 118,913 | 128,570 | 153,482 | 2.9 | 15.9 | 16.6 | 18.1 |
| Nuclear..... | 98,985 | 100,784 | 98,159 | -.1 | 13.3 | 13.0 | 11.6 |
| Hydroelectric..... | 95,962 | 97,548 | 98,580 | .3 | 12.9 | 12.6 | 11.6 |
| Other Renewables..... | 14,281 | 15,309 | 16,180 | 1.4 | 1.9 | 2.0 | 1.9 |
| Other..... | 545 | 550 | 440 | -2.4 | .1 | .1 | .1 |
| Total Industry..... | 746,507 | 775,890 | 848,254 | 1.4 | 100.0 | 100.0 | 100.0 |

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1992, 1996, and 2001
2001
(Megawatthours)

| Energy Source | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|------------------------------|----------------------|----------------------|----------------------|--|-----------------------|-----------------------|-----------------------|
| United States | | | | | | | |
| Coal..... | 1,575,895,394 | 1,737,453,477 | 1,560,145,542 | -0.1 | 51.1 | 50.4 | 41.8 |
| Petroleum..... | 88,916,308 | 67,346,095 | 78,907,846 | -1.3 | 2.9 | 2.0 | 2.1 |
| Natural Gas..... | 263,871,508 | 262,729,781 | 264,433,673 | .0 | 8.6 | 7.6 | 7.1 |
| Nuclear..... | 618,776,263 | 674,728,546 | 534,207,221 | -1.6 | 20.1 | 19.6 | 14.3 |
| Hydroelectric..... | 239,559,447 | 327,969,977 | 190,099,503 | -2.5 | 7.8 | 9.5 | 5.1 |
| Other Renewable..... | 10,200,231 | 7,214,276 | 2,151,888 | -15.9 | .3 | .2 | .1 |
| Total Utility..... | 2,797,219,151 | 3,077,442,152 | 2,629,945,673 | -7 | 90.7 | 89.4 | 70.4 |
| Coal..... | 45,310,644 | 57,742,115 | 343,810,422 | 25.3 | 1.5 | 1.7 | 9.2 |
| Petroleum..... | 11,237,856 | 14,065,131 | 45,972,372 | 16.9 | .4 | .4 | 1.2 |
| Natural Gas..... | 140,202,865 | 192,325,795 | 374,695,437 | 11.5 | 4.5 | 5.6 | 10.0 |
| Other Gases..... | 13,270,237 | 14,355,814 | 9,039,468 | -4.2 | .4 | .4 | .2 |
| Nuclear..... | 0 | 0 | 234,619,087 | .0 | .0 | .0 | 6.3 |
| Hydroelectric..... | 9,351,974 | 16,104,007 | 18,038,098 | 7.6 | .3 | .5 | .5 |
| Other Renewable..... | 63,569,591 | 68,581,328 | 75,833,176 | 2.0 | 2.1 | 2.0 | 2.0 |
| Other..... | 3,719,888 | 3,571,279 | 4,689,926 | 2.6 | .1 | .1 | .1 |
| Total Nonutility..... | 286,663,056 | 366,745,470 | 1,106,697,986 | 16.2 | 9.3 | 10.6 | 29.6 |
| Coal..... | 1,621,206,038 | 1,795,195,592 | 1,903,955,964 | 1.8 | 52.6 | 52.1 | 51.0 |
| Petroleum..... | 100,154,164 | 81,411,226 | 124,880,218 | 2.5 | 3.2 | 2.4 | 3.3 |
| Natural Gas..... | 404,074,373 | 455,055,576 | 639,129,110 | 5.2 | 13.1 | 13.2 | 17.1 |
| Other Gases..... | 13,270,237 | 14,355,814 | 9,039,468 | -4.2 | .4 | .4 | .2 |
| Nuclear..... | 618,776,263 | 674,728,546 | 768,826,308 | 2.4 | 20.1 | 19.6 | 20.6 |
| Hydroelectric..... | 248,911,421 | 344,073,984 | 208,137,601 | -2.0 | 8.1 | 10.0 | 5.6 |
| Other Renewable..... | 73,769,822 | 75,795,604 | 77,985,064 | .6 | 2.4 | 2.2 | 2.1 |
| Other..... | 3,719,888 | 3,571,279 | 4,689,926 | 2.6 | .1 | .1 | .1 |
| Total Industry..... | 3,083,882,207 | 3,444,187,622 | 3,736,643,659 | 2.2 | 100.0 | 100.0 | 100.0 |

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1992, 1996, and 2001

| Fuel | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|--|---------|---------|---------|--|
| United States | | | | |
| Coal (2001 cents per million Btu)..... | 161.2 | 135.1 | 123.1 | -2.9 |
| Average heat value (Btu per pound)..... | 10,395 | 10,263 | 10,019 | -.4 |
| Average sulfur Content(percent)..... | 1.3 | 1.1 | .9 | -4.1 |
| Petroleum (2001 cents per million Btu)..... | 286.9 | 317.2 | 369.3 | 2.8 |
| Average heat value (Btu per gallon)..... | 162,604 | 182,292 | 193,045 | 1.9 |
| Average sulfur Content(percent)..... | 1.2 | 1.3 | 1.5 | 2.4 |
| Gas (2001 cents per million Btu)..... | 265.8 | 276.8 | 448.6 | 6.0 |
| Average heat value (Btu per cubic foot)..... | 1023.6 | 1017.0 | 1026.6 | * |

Table 7. Electric Power Industry Emissions Estimates, 1992, 1996, and 2001
(Thousand Short Tons)

| Emission Type | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) |
|----------------------|-----------|-----------|-----------|--|
| United States | | | | |
| Sulfur Dioxide | | | | |
| Coal | 15,004 | 12,559 | NA | NA |
| Petroleum | 705 | 703 | NA | NA |
| Gas..... | 1 | 1 | NA | NA |
| Other..... | 94 | 101 | NA | NA |
| Total | 15,803 | 13,364 | NA | NA |
| Nitrogen Oxide | | | | |
| Coal | 6,623 | 5,864 | NA | NA |
| Petroleum | 136 | 142 | NA | NA |
| Gas..... | 571 | 675 | NA | NA |
| Other..... | 74 | 84 | NA | NA |
| Total | 7,405 | 6,765 | NA | NA |
| Carbon Dioxide | | | | |
| Coal | 1,718,821 | 1,922,577 | 2,045,496 | 1.9 |
| Petroleum | 92,396 | 76,752 | 115,770 | 2.5 |
| Gas..... | 242,737 | 267,245 | 354,379 | 4.3 |
| Other..... | 2,605 | 3,062 | 3,175 | 2.2 |
| Total | 2,056,560 | 2,269,637 | 2,518,819 | 2.3 |

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1992, 1996, and 2001

| Sector | 1992 | 1996 | 2001 | Annual Growth Rate 1992-2001 (Percent) | Percentage Share 1992 | Percentage Share 1996 | Percentage Share 2001 |
|---|-----------|-----------|-----------|--|-----------------------|-----------------------|-----------------------|
| United States | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | |
| Residential..... | 935,939 | 1,082,512 | 1,202,647 | 2.8 | 33.9 | 34.9 | 35.7 |
| Commercial..... | 761,271 | 887,445 | 1,089,154 | 4.1 | 27.5 | 28.6 | 32.3 |
| Industrial | 972,714 | 1,033,631 | 964,224 | -1 | 35.2 | 33.3 | 28.6 |
| Other | 93,442 | 97,539 | 113,756 | 2.2 | 3.4 | 3.1 | 3.4 |
| Total | 2,763,365 | 3,101,127 | 3,369,781 | 2.2 | 100.0 | 100.0 | 100.0 |
| Retail Sales Revenue (million 2001 dollars) | | | | | | | |
| Residential..... | 87,666 | 94,817 | 103,671 | 1.9 | 40.8 | 42.6 | 42.0 |
| Commercial..... | 66,556 | 71,062 | 86,354 | 2.9 | 30.9 | 31.9 | 35.0 |
| Industrial | 53,608 | 49,802 | 48,573 | -1.1 | 24.9 | 22.4 | 19.7 |
| Other | 7,183 | 7,063 | 7,999 | 1.2 | 3.3 | 3.2 | 3.2 |
| Total | 215,013 | 222,743 | 246,597 | 1.5 | 100.0 | 100.0 | 100.0 |
| Average Revenue per Kilowatthour (cents/kWh) (2001 dollars) | | | | | | | |
| Residential..... | 9.37 | 8.76 | 8.62 | -9 | NA | NA | NA |
| Commercial..... | 8.74 | 8.01 | 7.93 | -1.1 | NA | NA | NA |
| Industrial | 5.51 | 4.82 | 5.04 | -1.0 | NA | NA | NA |
| Other | 7.69 | 7.24 | 7.03 | -1.0 | NA | NA | NA |
| Total | 7.78 | 7.18 | 7.32 | -7 | NA | NA | NA |

Table 9. Utility Retail Sales Statistics, 2001

| Item | Investor-Owned | Public | Federal | Cooperative | Energy Service Providers | Total |
|--|----------------|------------|---------|-------------|--------------------------|-------------|
| United States | | | | | | |
| Number of Entities | 199 | 1,953 | 6 | 831 | 72 | 3,061 |
| Number of Retail Customers..... | 94,399,102 | 18,823,253 | 38,705 | 15,367,610 | 2,211,505 | 130,840,175 |
| Retail Sales (thousand megawatthours) | 2,361,135 | 517,418 | 34,271 | 312,003 | 144,955 | 3,369,781 |
| Percentage of Retail Sales | 70.07 | 15.35 | 1.02 | 9.26 | 4.30 | 100.00 |
| Revenue from Retail Sales (Million 2001 Dollars) | 179,443 | 34,359 | 940 | 21,646 | 10,209 | 246,597 |
| Percentage of Revenue | 72.77 | 13.93 | .38 | 8.78 | 4.14 | 100.00 |