

Table 1. 2002 Summary Statistics

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

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

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

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

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

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

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

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